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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | 4079-102               |

**CONFIRMATION NO. 8277**

**POA ACCEPTANCE LETTER**



145076  
Avigilon Corporation  
Box 378, #101-1001 West Broadway  
Vancouver, BC V6H 4E4  
CANADA

Date Mailed: 09/06/2017

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 08/28/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tha/



UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | 4079-102               |

**CONFIRMATION NO. 8277**

**POWER OF ATTORNEY NOTICE**



6449  
ROTHWELL, FIGG, ERNST & MANBECK, P.C.  
607 14th Street, N.W.  
SUITE 800  
WASHINGTON, DC 20005

Date Mailed: 09/06/2017

**NOTICE REGARDING CHANGE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 08/28/2017.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervned as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tha/

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

Practitioners associated with Customer Number: 145076

**OR**

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

| Name | Registration Number |
|------|---------------------|
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |

| Name | Registration Number |
|------|---------------------|
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

The address associated with Customer Number: 145076

**OR**

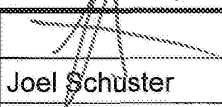
|                          |                         |       |     |  |
|--------------------------|-------------------------|-------|-----|--|
| <input type="checkbox"/> | Firm or Individual Name |       |     |  |
|                          | Address                 |       |     |  |
|                          | City                    | State | Zip |  |
|                          | Country                 |       |     |  |
|                          | Telephone               | Email |     |  |

Assignee Name and Address: Avigilon Fortress Corporation  
 2900 - 550 Burrard Street  
 Vancouver, British Columbia, Canada V6C 0A3

**A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.**

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

|           |   |           |                 |
|-----------|---|-----------|-----------------|
| Signature |  | Date      | August 25, 2017 |
| Name      | Joel Schuster   | Telephone | 604-637-5182    |
| Title     | Secretary and Director  |           |                 |

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(c)**Applicant/Patent Owner: Avigilon Fortress CorporationApplication No./Patent No.: 7,868,912 Filed/Issue Date: January 11, 2011Titled: VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVESAvigilon Fortress Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1.  The assignee of the entire right, title, and interest.
2.  An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is \_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3.  The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4.  The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: VENETIANER, PETER L. et al. To: OBJECTVIDEO, INC.The document was recorded in the United States Patent and Trademark Office at  
Reel 016453, Frame 0968, or for which a copy thereof is attached.2. From: OBJECTVIDEO, INC. To: AVIGILON FORTRESS CORPORATIONThe document was recorded in the United States Patent and Trademark Office at  
Reel 034552, Frame 0308, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**STATEMENT UNDER 37 CFR 3.73(c)**

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

4. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

5. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

6. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Daniel Hammond/  
Signature

August 25, 2017  
Date

Daniel Hammond  
Printed or Typed Name

56642  
Title or Registration Number

## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 30205669   |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 6449   |
| <b>Filer:</b>                               | Daniel A. Hammond/Susan Pon                          |
| <b>Filer Authorized By:</b>                 | Daniel A. Hammond                                    |
| <b>Attorney Docket Number:</b>              | 4079-102   |
| <b>Receipt Date:</b>                        | 28-AUG-2017  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 19:47:36   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name                             | File Size(Bytes)/<br>Message Digest                              | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|---------------------------------------|--|------------------|------------------|
| 1               | Power of Attorney    | POA_Avigilon_Fortress_Corporation.pdf | 887562<br><small>35110485e03a4bc6025fbaa70d7e3950fe0f65d</small> | no               | 2                |

### Warnings:



The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing

**Information:**

|   |   |                      |  |    |   |
|---|---|----------------------|--|----|---|
| 2 | Assignee showing of ownership per 37 CFR 3.73 | StatementUnder37.pdf | 93459                                    | no | 3 |
|   |   |                      | 7d7627564a1d98ad5567397e6d288a8fa7d29fae |    |   |

**Warnings:**

**Information:**

|                                     |        |
|-------------------------------------|--------|
| <b>Total Files Size (in bytes):</b> | 981021 |
|-------------------------------------|--------|

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3301766

|                                    |                         |
|------------------------------------|-------------------------|
| <b>SUBMISSION TYPE:</b>            | NEW ASSIGNMENT          |
| <b>NATURE OF CONVEYANCE:</b>       | SECURITY INTEREST       |
| <b>CONVEYING PARTY DATA</b>        |                         |
| <b>Name</b>                        | <b>Execution Date</b>   |
| AVIGILON FORTRESS CORPORATION      | 04/07/2015              |
| <b>RECEIVING PARTY DATA</b>        |                         |
| <b>Name:</b>                       | HSBC BANK CANADA        |
| <b>Street Address:</b>             | 885 WEST GEORGIA STREET |
| <b>Internal Address:</b>           | SUITE 200               |
| <b>City:</b>                       | VANCOUVER               |
| <b>State/Country:</b>              | CANADA                  |
| <b>Postal Code:</b>                | V6C 3G1                 |
| <b>PROPERTY NUMBERS Total: 102</b> |                         |
| <b>Property Type</b>               | <b>Number</b>           |
| Patent Number:                     | 6696945                 |
| Patent Number:                     | 7046732                 |
| Patent Number:                     | 6987883                 |
| Patent Number:                     | 6999600                 |
| Patent Number:                     | 7224852                 |
| Patent Number:                     | 6970083                 |
| Patent Number:                     | 7646401                 |
| Patent Number:                     | 7733369                 |
| Patent Number:                     | 7391907                 |
| Patent Number:                     | 7424167                 |
| Patent Number:                     | 7583815                 |
| Patent Number:                     | 7868912                 |
| Patent Number:                     | 7613322                 |
| Patent Number:                     | 7825954                 |
| Patent Number:                     | 7613324                 |
| Patent Number:                     | 7796780                 |
| Patent Number:                     | 7884849                 |
| Patent Number:                     | 8711217                 |
| Patent Number:                     | 7891330                 |

| <b>Property Type</b> | <b>Number</b> |
|----------------------|---------------|
| Patent Number:       | 7424175       |
| Patent Number:       | 7949150       |
| Patent Number:       | 8334906       |
| Patent Number:       | 7925536       |
| Patent Number:       | 7822275       |
| Patent Number:       | 8564661       |
| Patent Number:       | 8180490       |
| Patent Number:       | 8405720       |
| Patent Number:       | 8150103       |
| Patent Number:       | 8401229       |
| Patent Number:       | 8848053       |
| Patent Number:       | 8457401       |
| Patent Number:       | 7932923       |
| Patent Number:       | 8497906       |
| Patent Number:       | 8823804       |
| Patent Number:       | 8526678       |
| Patent Number:       | 8948458       |
| Application Number:  | 11057154      |
| Application Number:  | 11167218      |
| Application Number:  | 11220970      |
| Application Number:  | 11602490      |
| Application Number:  | 11826324      |
| Application Number:  | 12155476      |
| Application Number:  | 13082686      |
| Application Number:  | 13673178      |
| Application Number:  | 13684025      |
| Application Number:  | 13713674      |
| Application Number:  | 13744264      |
| Application Number:  | 13744266      |
| Application Number:  | 13744251      |
| Application Number:  | 13744254      |
| Application Number:  | 13781240      |
| Application Number:  | 13804280      |
| Application Number:  | 13838511      |
| Application Number:  | 14634838      |
| Application Number:  | 13843455      |
| Application Number:  | 13838665      |
| Application Number:  | 13886420      |

| <b>Property Type</b> | <b>Number</b> |
|----------------------|---------------|
| Application Number:  | 14610582      |
| Application Number:  | 14058423      |
| Application Number:  | 14203065      |
| Application Number:  | 61968015      |
| Application Number:  | 14674889      |
| Application Number:  | 61973611      |
| Application Number:  | 14252661      |
| Application Number:  | 61988666      |
| Application Number:  | 14455868      |
| Application Number:  | 14470848      |
| Application Number:  | 14500108      |
| Application Number:  | 62061935      |
| Application Number:  | 62066734      |
| Application Number:  | 62088316      |
| Application Number:  | 62088373      |
| Application Number:  | 62088394      |
| Application Number:  | 62088443      |
| Application Number:  | 62088446      |
| Application Number:  | 14576818      |
| Application Number:  | 62101755      |
| Application Number:  | 62101733      |
| Application Number:  | 62101707      |
| Application Number:  | 62101646      |
| Application Number:  | 62104507      |
| Application Number:  | 62104480      |
| Application Number:  | 62109748      |
| Application Number:  | 62109780      |
| Application Number:  | 62109768      |
| Application Number:  | 62109802      |
| Application Number:  | 62109817      |
| Application Number:  | 62110174      |
| Application Number:  | 62110184      |
| Application Number:  | 62110190      |
| Application Number:  | 62110199      |
| Application Number:  | 62110249      |
| Application Number:  | 62109841      |
| Application Number:  | 62109861      |
| Application Number:  | 62109889      |

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 62109907 |
| Application Number: | 62109922 |
| Application Number: | 62110085 |
| Application Number: | 62110251 |
| Application Number: | 62110266 |
| Application Number: | 62110297 |
| Application Number: | 62110273 |

**CORRESPONDENCE DATA**

**Fax Number:**  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 3127018944  
**Email:** ptierney@mayerbrown.com, msherlock@mayerbrown.com, ipdocket@mayerbrown.com  
**Correspondent Name:** PATRICK TIERNEY  
**Address Line 1:** PO BOX 2828  
**Address Line 4:** CHICAGO, ILLINOIS 60690-2828

|  |                 |
|--|-----------------|
| <b>ATTORNEY DOCKET NUMBER:</b>                             | 15475652        |
| <b>NAME OF SUBMITTER:</b>                                  | PATRICK TIERNEY |
| <b>SIGNATURE:</b>  | /PT/            |
| <b>DATE SIGNED:</b>  | 04/08/2015      |
| This document serves as an Oath/Declaration (37 CFR 1.63). |                 |

**Total Attachments: 22**  
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## PATENT PLEDGE AND SECURITY AGREEMENT

PATENT PLEDGE AND SECURITY AGREEMENT (this "Agreement") dated as of April 7, 2015, between Avigilon Fortress Corporation (the "Grantor") and HSBC BANK CANADA as administration agent (the "Agent").

WHEREAS, in connection with and as a condition to that certain Credit Agreement dated as of April 7, 2015, by and among, Avigilon Corporation, as borrower, the other Loan Parties party from time to time thereto, the Agent, as administration agent for and on behalf of the Lenders, and the Lenders party from time to time thereto (as further amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), the Grantor, in its best interest, is party to a General Security Agreement, dated as of April 7, 2015 (as amended, supplemented, amended and restated or otherwise modified from time to time, the "Security Agreement"), by and between the Grantor and the Agent for the benefit of the Secured Creditors;

WHEREAS, pursuant to the Security Agreement, the Grantor has granted to the Agent a security interest in certain of the Grantor's personal property and fixture assets, including without limitation the patents and patent applications listed on Schedule A attached hereto, all to secure the payment and performance of the Secured Obligations; and

WHEREAS, pursuant to the Security Agreement, the Grantor is required to execute and deliver to the Agent, for the benefit of the Secured Creditors, an agreement in substantially the form of this Agreement;

WHEREAS, this Agreement is supplemental to the provisions contained in the Security Agreement;

NOW, THEREFORE, in consideration of the premises contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

### 1. DEFINITIONS.

Capitalized terms used herein and not otherwise defined herein shall have the respective meanings provided therefor in the Credit Agreement and the Security Agreement.

"Patent Collateral" means (a) all inventions and discoveries, whether patentable or not, all letters patent and applications for letters patent throughout the world, including without limitation those patents referred to in Schedule A hereto, and any patent applications in preparation for filing, (b) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the items described in clause (a), (c) all patent licenses, and other agreements providing the Grantor with the right to use any items of the type referred to in clauses (a) and (b) above, and (d) all proceeds of, and rights associated with, the foregoing (including licenses, royalties income, payments, claims, damages and proceeds of infringement suits), the right to sue third parties for past, present or future infringements of any patent or patent application, and for breach or enforcement of any patent license.

**2. GRANT OF SECURITY INTEREST.**

The Grantor hereby unconditionally grants, assigns and pledges to Agent, for the benefit of the Secured Creditors, to secure the Secured Obligations, a continuing security interest in all of the Grantor's right, title and interest in and to the Patent Collateral, whether now owned or hereafter acquired or arising, which includes, without limitation, the Patent Collateral with respect to those patents referred to on Schedule A (the "Security Interest"). This Agreement and the Security Interest created hereby secures the prompt and indefeasible payment in full and performance of the Secured Obligations, whether now existing or arising hereafter.

**3. REPRESENTATIONS AND WARRANTIES.**

The Grantor represents that except for the Patent Collateral specified in Schedule A hereto, the Grantor does not own and has no interests in any Patent Collateral as of the date hereof. The Grantor further represents and warrants that, with respect to all Patent Collateral specified in Schedule A hereto, (a) such Patent Collateral (except for any Patent Collateral that is immaterial to the business of the Grantor) is valid, subsisting, unexpired and enforceable and has not been abandoned or adjudged invalid or unenforceable, in whole or in part, except to the extent that any invalidity, non-subsistence, expiry, unenforceability, abandonment, adjudged invalidity or adjudged unenforceability of any such Patent Collateral has not had nor could reasonably be expected to have a Material Adverse Effect, (b) the Grantor is the sole and exclusive owner of the entire and unencumbered right, title and interest in and to such Patent Collateral (except for any Patent Collateral that is immaterial to the business of the Grantor), subject to Permitted Encumbrances, and no claim has been made that the use of such Patent Collateral does or may, conflict with, infringe, misappropriate, dilute, misuse or otherwise violate any of the rights of any third party in any material respects, (c) the Grantor has made, or intends to make, all necessary filings and recordations to protect its interest in such material Patent Collateral, including recordations of any of its interests in such material Patent Collateral in the United States Patent and Trademark Office and in corresponding offices throughout the world, and, to the extent necessary, has used, or intends to use, proper statutory notice in connection with its use of any material patent, (d) the Grantor has not made a previous assignment, sale, transfer or agreement constituting a present or future assignment, sale or transfer of any Patent Collateral for purposes of granting a security interest or as Collateral that has not been terminated or released (other than Permitted Encumbrances), and (e) the consummation of the transactions contemplated by the Credit Agreement and the Security Agreement will not result in the termination or material impairment of any material portion of the Patent Collateral, except to the extent that any termination or material impairment of any material portion of any Patent Collateral has not had nor could reasonably be expected to have a Material Adverse Effect.

**4. SECURITY AGREEMENT.**

The Security Interest granted pursuant to this Agreement is granted in conjunction with the security interests granted to Agent, for the benefit of the Secured Creditors, pursuant to the Security Agreement. The Grantor hereby acknowledges and affirms that the rights and remedies of the Agent with respect of the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Nothing contained in this Agreement shall be deemed to extend the time of attachment or perfection of or otherwise impair the security interest in any of the Patent



Collateral granted to the Agent under the Security Agreement. To the extent there is any inconsistency between this Agreement and the Security Agreement, the Security Agreement shall control.

**5. TERMINATION.**

This Agreement shall terminate automatically upon termination of the Security Agreement.

**6. GOVERNING LAW; CONSENT TO JURISDICTION.**

This Agreement shall be governed by and construed in accordance with the laws of the State of New York and the federal laws of the United States applicable therein. The Grantor and each of the Beneficiaries each hereby attorn and submit to the non-exclusive jurisdiction of the courts of the State of New York. For the purpose of all legal proceedings, this Agreement shall be deemed to have been performed in the State of New York and the courts of the State of New York shall have jurisdiction to entertain any action or proceeding arising under this Agreement. Notwithstanding the foregoing, nothing herein shall be construed nor operate to limit the right of the Grantor or any Beneficiary to commence any action or proceeding relating hereto in any other jurisdiction, nor to limit the right of the courts of any other jurisdiction to take jurisdiction over any action, proceeding or matter relating hereto.

**THE GRANTOR IRREVOCABLY AND UNCONDITIONALLY SUBMITS, FOR ITSELF AND ITS PROPERTY, TO THE NONEXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF NEW YORK SITTING IN NEW YORK COUNTY AND OF THE UNITED STATES DISTRICT COURT OF THE SOUTHERN DISTRICT OF NEW YORK, AND ANY APPELLATE COURT FROM ANY THEREOF, IN ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT, OR FOR RECOGNITION OR ENFORCEMENT OF ANY JUDGMENT, AND THE GRANTOR IRREVOCABLY AND UNCONDITIONALLY AGREES THAT ALL CLAIMS IN RESPECT OF ANY SUCH ACTION OR PROCEEDING MAY BE HEARD AND DETERMINED IN SUCH NEW YORK STATE COURT OR, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, IN SUCH FEDERAL COURT. THE GRANTOR AGREES THAT A FINAL JUDGMENT IN ANY SUCH ACTION OR PROCEEDING SHALL BE CONCLUSIVE AND MAY BE ENFORCED IN OTHER JURISDICTIONS BY SUIT ON THE JUDGMENT OR IN ANY OTHER MANNER PROVIDED BY LAW. NOTHING IN THIS AGREEMENT SHALL AFFECT ANY RIGHT THAT ANY SECURED PARTY MAY OTHERWISE HAVE TO BRING ANY ACTION OR PROCEEDING RELATING TO THIS AGREEMENT AGAINST ANY OTHER GRANTOR OR ITS PROPERTIES IN THE COURTS OF ANY JURISDICTION.**

**7. WAIVER OF JURY TRIAL; WAIVER OF VENUE.**

**THE GRANTOR HEREBY KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES TO THE FULLEST EXTENT PERMITTED BY LAW ANY RIGHTS IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION BASED HEREON, OR ARISING OUT OF, UNDER, OR IN CONNECTION WITH, EACH DOCUMENT, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER ORAL OR WRITTEN) OR ACTIONS OF THE AGENT, ANY OTHER SECURED PARTY OR ANY OBLIGOR IN CONNECTION THEREWITH. THE GRANTOR ACKNOWLEDGES AND AGREES THAT**

IT HAS RECEIVED FULL AND SUFFICIENT CONSIDERATION FOR THIS PROVISION (AND EACH OTHER PROVISION OF EACH OTHER DOCUMENT TO WHICH IT IS A PARTY) AND THAT THIS PROVISION IS A MATERIAL INDUCEMENT FOR THE AGENT, EACH LENDER AND ISSUING LENDER ENTERING INTO THE DOCUMENTS.

THE GRANTOR IRREVOCABLY AND UNCONDITIONALLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LEGAL REQUIREMENT, ANY OBJECTION THAT IT MAY NOW OR HEREAFTER HAVE TO THE LAYING OF VENUE OF ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT IN ANY COURT REFERRED TO IN SECTION 7. THE GRANTOR HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LEGAL REQUIREMENT, THE DEFENSE OF AN INCONVENIENT FORUM TO THE MAINTENANCE OF SUCH ACTION OR PROCEEDING IN ANY SUCH COURT.

8. COUNTERPARTS.

This Agreement may be executed in counterparts, each of which shall constitute an original, but all of which when taken together shall constitute a single contract. This Agreement shall become effective when the Agent shall have received counterparts of this Agreement that, when taken together, bear the signatures of the Grantor and the Agent. Delivery of an executed signature page to this Agreement by facsimile transmission shall be as effective as delivery of a manually signed counterpart of this Agreement. Delivery by a party of an executed signature page of this Agreement by portable document format (.pdf) or any other electronic means intended to preserve the original graphic and pictorial appearance of a signature has the same effect as delivery of an executed original of this Agreement.

9. AMENDMENTS, ETC.

This Agreement may not be amended or modified in any respect except by written instrument signed by the Grantor and the Agent. No waiver of any provision of this Agreement by the Agent shall be effective unless the same is in writing and signed by the Agent, and then such waiver shall be effective only in the specific instance and for the specific purpose for which it is given. The rights of the Agent under this Agreement may only be assigned in accordance with the requirements of the Credit Agreement. The Grantor may not assign its obligations under this Agreement.

10. MISCELLANEOUS.

This Agreement is a Document executed pursuant to the Credit Agreement and shall unless otherwise expressly indicated herein) be construed, administered and applied in accordance with the terms and provisions thereof.

The headings of each section of this Agreement are for convenience only and shall not define or limit the provisions thereof. This Agreement and all rights and obligations hereunder shall be binding upon the Grantor and its successors and assigns, and shall inure to the benefit of the Agent and its successors and assigns, subject to the limitations as set forth in the Credit Agreement. If any term of this Agreement shall be held to be invalid, illegal or unenforceable, the validity of all other terms hereof shall

in no way be affected thereby, and this Agreement shall be construed and be enforceable as if such invalid, illegal or unenforceable term had not been included herein.


All references to instruments, documents, contracts, and agreements (including this Agreement) are references to such instruments, documents, contracts, and agreements as the same may be amended, supplemented, and otherwise modified from time to time, unless otherwise specified and shall include all schedules and exhibits thereto unless otherwise specified. The words “hereof”, “herein”, and “hereunder” and words of similar import when used in this Agreement shall refer to this Agreement as a whole and not to any particular provision of this Agreement. The term “including” means “including, without limitation,”.

[Signature Pages to Follow]

50939156.3

**IN WITNESS WHEREOF**, this Agreement has been executed as of the day and year first above written.

AVIGILON FORTRESS CORPORATION

By:   
Name: Alexander Fernandes  
Title: President

HSBC BANK CANADA, as Agent

By: \_\_\_\_\_

Name: **CURTIS STANDERWICK**  
Title: **ASSISTANT VICE PRESIDENT  
LARGE CORPORATE BC**

By: \_\_\_\_\_

Name: **TODD PATCHELL**  
Title: **VICE PRESIDENT  
REGION HEAD OF LARGE CORPORATE**

*Patent Pledge and Security Agreement – U.S.  
Avigilon Fortress Corporation*

SCHEDULE A

Issued Patents

| <u>Country</u> | <u>Filing Date</u> | <u>Patent No</u> | <u>Title</u>  |
|----------------|--------------------|------------------|---|
| US             | July 3, 2000       | 6,738,424        | Scene Model Generation from Video For Use in Video Processing |
| US             | October 24, 2000   | 6,954,498        | Interactive Video Manipulation                                |
| US             | March 16, 2001     | 7,321,624        | Bit-Rate Allocation for Object-Based Video Encoding           |
| US             | March 23, 2001     | 6,625,310        | Video Segmentation using Statistical Pixel Modeling           |
| CN             | October 9, 2002    | ZL02819985.5     | Video Tripwire  |
| DE             | October 9, 2002    | 60239883         | Video Tripwire  |
| DK             | October 9, 2002    | 1435170          | Video Tripwire  |
| EP             | October 9, 2002    | 1435170          | Video Tripwire  |
| ES             | October 9, 2002    | 1435170          | Video Tripwire  |
| FI             | October 9, 2002    | 1435170          | Video Tripwire  |
| FR             | October 9, 2002    | 1435170          | Video Tripwire  |
| GB             | October 9, 2002    | 1435170          | Video Tripwire  |
| HK             | October 9, 2002    | 1071956          | Video Tripwire  |
| IT             | October 9, 2002    | 1435170          | Video Tripwire  |
| KR             | October 9, 2002    | 10-0905504       | Video Tripwire  |
| MX             | October 9, 2002    | 256447           | Video Tripwire  |
| NL             | October 9, 2002    | 1435170          | Video Tripwire  |

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| SE | October 9, 2002    | 1435170              | Video Tripwire   |
| US | October 9, 2001    | 6,696,945            | Video Tripwire   |
| US | October 18, 2001   | 7,046,732            | Video Coloring Book  |
| US | December 31, 2002  | 6,987,883            | Video Scene Background Maintenance using Statistical Pixel Modeling          |
| CN | December 23, 2003  | ZL200380110119<br>.4 | Video Scene Background Maintenance using Change Detection and Classification |
| DE | December 23, 2003  | 60340236             | Video Scene Background Maintenance using Change Detection and Classification |
| DK | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| FI | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| FR | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| GB | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| HK | October 3, 2006    | 1088968              | Video Scene Background Maintenance using Change Detection and Classification |
| IT | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| MX | December 23, 2003  | 258937               | Video Scene Background Maintenance using Change Detection and Classification |
| NL | December 23, 2003  | 1588317              | Video Scene Background Maintenance using Change Detection and Classification |
| SG | December 23, 2003  | 114035               | Video Scene Background Maintenance using Change Detection and Classification |
| US | January 30, 2003   | 6,999,600            | Video Scene Background Maintenance using Change Detection and Classification |
| US | September 22, 2003 | 7,224,852            | Video Segmentation using Statistical Pixel Modeling                          |

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|----|--------------------|------------|---|
| KR | June 9, 2006       | 10-1085578 | Video Tripwire (CIP)  |
| MX | May 12, 2006       | 264306     | Video Tripwire (CIP)  |
| SG | November 12, 2004  | 122,329    | Video Tripwire (CIP)  |
| US | November 12, 2003  | 6,970,083  | Video Tripwire (CIP)  |
| US | January 30, 2004   | 7,646,401  | Video Based Passback Event Detection  |
| US | September 28, 2004 | 7,733,369  | View Handling in Video Surveillance Systems   |
| YU | June 7, 2006       | 1872583    | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| US | October 1, 2004    | 7,391,907  | Spurious Object Detection in a Video Surveillance System  |
| US | October 1, 2004    | 7,424,167  | Tide Filtering for Video Surveillance System  |
| US | April 5, 2005      | 7,583,815  | Wide-Area Site-Based Video Surveillance System  |
| AL | April 5, 2006      | 1872583    | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| AT | April 5, 2006      | 1872583    | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| BA | April 5, 2006      | 1872583    | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| BE | April 5, 2006      | 1872583    | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |



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| BG | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| CH | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| CN | June 27, 2006 | ZL200680030697<br>.0 | Video Surveillance System Employing Video Primitives  |
| CY | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| CZ | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| DE | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| DK | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| EE | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| ES | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| FI | April 5, 2006 | 1872583              | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |

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| FR | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| GB | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| GR | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| HR | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| HU | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| IE | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| IS | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| IT | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| LT | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| LU | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |

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| LV | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| MC | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| MK | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| NL | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| PL | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| PT | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| RO | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| SE | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| SI | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| SK | April 5, 2006 | 1872583 | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |

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| TR | April 5, 2006      | 1872583          | Method of Video Processing, Computer Readable Medium Containing Instructions Implementing Said Method and Video Processing System |
| US | April 5, 2005      | 7,868,912        | Video Surveillance System Employing Video Primitives  |
| US | May 19, 2005       | 7,613,322        | Periodic Motion Detection with Applications to Multi-Grabbing   |
| US | May 31, 2005       | 7,825,954        | Multi-state Target Tracking   |
| US | June 24, 2005      | 7,613,324        | Detection of Change of Posture in Video   |
| US | June 24, 2005      | 7,796,780        | Target Detection and Tracking from Overhead Video Streams   |
| US | September 26, 2005 | 7,884,849        | Video Surveillance System with Omni-directional Camera  |
| US | December 15, 2005  | 8,711,217        | Video Surveillance System Employing Video Primitives  |
| US | January 31, 2007   | 7,801,330        | Target Detection and Tracking from Video Streams  |
| CN | March 1, 2007      | ZL200780017762.0 | Video Segmentation Using Statistical Pixel Modeling   |
| KR | November 13, 2008  | 10-1392294       | Video Segmentation Using Statistical Pixel Modeling   |
| US | February 27, 2007  | 7,424,175        | Video Segmentation using Statistical Pixel Modeling   |
| US | April 2, 2007      | 7,949,150        | Automatic Camera Calibration and Geo-Registration Using Objects that Provide Positional Information                               |
| US | May 4, 2007        | 8,334,906        | Video Imagery-Based Sensor  |
| US | May 25, 2007       | 7,925,536        | Intelligent Video Verification Of Point-Of-Sale (Pos) Transactions  |
| US | June 4, 2007       | 7,822,275        | Methods for Detecting Water Regions in Video  |

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|----|--------------------|--------------|--|
| US | July 26, 2007      | 8,564,661    | Video Analytic Rule Detection System and Method                              |
| US | January 4, 2008    | 8,180,490    | Video-based Sensing for Daylighting Controls                                 |
| US | August 8, 2008     | 8,405,720    | Automatic calibration of PTZ Camera system                                   |
| US | September 3, 2008  | 8,150,103    | Background Modeling With Feature Blocks                                      |
| US | September 4, 2008  | 8,401,229    | Stationary Target Detection by Exploiting Changes in Background Model        |
| US | September 26, 2008 | 8,848,053    | Automatic Extraction of Secondary Video Streams                              |
| US | February 10, 2009  | 8,457,401    | Video Segmentation using Statistical Pixel Modeling                          |
| CN | July 17, 2002      | ZL02822772.7 | Video Surveillance System Employing Video Primitives                         |
| HK | August 11, 2005    | 1073375      | Video Surveillance System Employing Video Primitives                         |
| JP | July 17, 2002      | 4369233      | Video Surveillance System Employing Video Primitives                         |
| US | September 29, 2009 | 7,932,923    | Video Surveillance System Employing Video Primitives                         |
| US | May 17, 2010       | 8,497,906    | View Handling in Video Surveillance Systems                                  |
| US | January 19, 2012   | 8,823,804    | Method for Finding Paths in Video  |
| US | February 19, 2013  | 8,526,678    | Stationary Target Detection by Exploiting Changes in Background Model        |
| KR | June 13, 2008      | 10-1375583   | Object Density Estimation in Video   |
| US | August 2, 2013     | 8,948,458    | Stationary Target Detection by Exploiting Changes in Background Model (Cont) |
| ES | December 23, 2003  | 1588317      | Video Scene Background Maintenance using Change Detection and Classification |

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| SE | December 23, 2003 | 1588317 | Video Scene Background Maintenance using Change Detection and Classification |
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Pending Patent Applications

| <u>Country</u> | <u>Filing Date</u> | <u>Application No.</u> | <u>Title</u>  |
|----------------|--------------------|------------------------|---|
| US             | February 2, 2005   | 11/057,154             | Video surveillance system employing video primitives      |
| EP             | July 17, 2002      | 02 752 397.6           | Video Surveillance System Employing Video Primitives      |
| CA             | November 12, 2004  | 2545535                | Video Tripwire  |
| US             | June 28, 2005      | 11/167,218             | Video Surveillance System Employing Video Primitives      |
| US             | September 8, 2005  | 11/220,970             | Scanning Camera-Based Video Surveillance System           |
| CN             | January 26, 2006   | CN 200680012471        | Video surveillance system employing video primitives      |
| CN             | April 5, 2006      | CN 200680019911        | Video Surveillance System Employing Video Primitives      |
| EP             | June 23, 2006      | EP20060785442          | Target Detection And Tracking From Overhead Video Streams |
| EP             | June 27, 2006      | EP20060774199          | Video Surveillance System Employing Video Primitives      |
| US             | November 21, 2006  | 11/602,490             | Object Density Estimation In Video                        |
| US             | July 13, 2007      | 11/826,324             | Video Analysis For Retail Business Process Monitoring     |
| US             | June 4, 2008       | 12/155,476             | Intelligent Video Network Protocol                        |
| HK             | April 5, 2006      | 8107304.8              | Video Surveillance System Employing Video Primitives      |
| HK             | September 5, 2008  | 8109917.3              | Target Detection And Tracking From Overhead Video Streams |

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|----|--------------------|---------------------|---|
| US | April 8, 2011      | 13/082,686          | Intelligent Video Verification Of Point-Of-Sale (POS) Transactions (Div)                              |
| EP | January 31, 2012   | 12151067.1          | Video Surveillance System Employing Video Primitives (CIP)  |
| EP | January 31, 2012   | 12151069.7          | Video Surveillance System Employing Video Primitives (CIP)  |
| US | November 9, 2012   | 13/673,178          | Video Imagery-Based Sensor (Cont)   |
| US | November 21, 2012  | 13/684,025          | Automatic Event Detection, Text Generation, and Use Thereof   |
| US | December 13, 2012  | 13/713,674          | A Multichannel Video Content Analysis System using Video Multiplexing                                 |
| US | January 17, 2013   | 13/744,264          | System and method for building automation using video content analysis with depth sensing             |
| US | January 17, 2013   | 13/744,266          | System and method for home health care monitoring   |
| US | January 17, 2013   | 13/744,251          | System and method for monitoring a retail environment using video content analysis with depth sensing |
| US | January 17, 2013   | 13/744,254          | System and method for video content analysis using depth sensing                                      |
| US | February 28, 2013  | 13/781,240          | Automatic Calibration Of PTZ Camera System (Div)  |
| US | March 14, 2013     | 13/804,280          | People tracking and best shot detection system  |
| US | March 15, 2013     | 13/838,511          | Crowd Estimation And Monitoring System Using A Generic Human Model                                    |
| US | March 1, 2015      | 14/634,838          | Crowd Estimation And Monitoring System Using A Generic Human Model                                    |
| AE | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video   |

|    |                    |                     |   |
|----|--------------------|---------------------|---|
| AU | September 12, 2013 | 2013315491          | Methods, devices and systems for detecting objects in a video |
| BR | September 12, 2013 | BR112015005282-7    | Methods, devices and systems for detecting objects in a video |
| CA | September 12, 2013 | 2884383             | Methods, devices and systems for detecting objects in a video |
| CN | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| EG | September 12, 2013 | PCT388/2015         | Methods, devices and systems for detecting objects in a video |
| EP | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| ID | September 12, 2013 | P00201501382        | Methods, devices and systems for detecting objects in a video |
| IL | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| IN | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| JP | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| KR | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| MX | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| MY | September 12, 2013 | PI 2015000611       | Methods, devices and systems for detecting objects in a video |
| NZ | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| RU | September 12, 2013 | 2015109072          | Methods, devices and systems for detecting objects in a video |
| SA | September 12, 2013 | (PCT/US2013/059471) | Methods, devices and systems for detecting objects in a video |
| SG | September 12, 2013 | 11201501725R        | Methods, devices and systems for detecting objects in a video |



|     |                    |                   |  |
|-----|--------------------|-------------------|--|
| TH  | September 12, 2013 | 1501001359        | Methods, devices and systems for detecting objects in a video                                  |
| VN  | September 12, 2013 | 1-2015-00830      | Methods, devices and systems for detecting objects in a video                                  |
| WO  | September 12, 2013 | PCT/US2013/059471 | Methods, devices and systems for detecting objects in a video                                  |
| US  | March 15, 2013     | 13/843,455        | Video Surveillance Systems, Devices And Methods With Improved 3D Human Pose And Shape Modeling |
| US  | March 15, 2013     | 13/838,665        | View Handling In Video Surveillance Systems (Cont)   |
| US  | May 3, 2013        | 13/886,420        | Video Segmentation Using Statistical Pixel Modeling (Cont)                                     |
| US  | January 30, 2015   | 14/610,582        | Stationary Target Detection by Exploiting Changes in Background Model (Cont)                   |
| US  | October 21, 2013   | 14/058,423        | Video Analytic Rule Detection System And Method  |
| US  | March 10, 2014     | 14/203,065        | Video Surveillance System Employing Video Primitives   |
| USP | March 20, 2014     | 61/968,015        | System and Method for Identifying Faces in Unconstrained Media                                 |
| US  | March 31, 2015     | 14/674889         | SYSTEM AND METHOD FOR RECOGNITION OF COMPLEX EVENTS UNDER UNCERTAINTY                          |
| USP | April 1, 2014      | 61/973,611        | SYSTEM AND METHOD FOR RECOGNITION OF COMPLEX EVENTS UNDER UNCERTAINTY                          |
| US  | April 14, 2014     | 14/252,661        | Graph Matching By Sub-Graph Grouping and Indexing  |
| USP | May 5, 2014        | 61/988,666        | Real-Time Video Overlays   |
| US  | August 8, 2014     | 14/455,868        | Method for Finding Paths in Video  |

|     |                    |                   |   |
|-----|--------------------|-------------------|---|
| US  | August 27, 2014    | 14/470,848        | Systems and Methods for Processing Crowd-Sourced Multimedia Items   |
| US  | September 29, 2014 | 14/500,108        | Automatic Extraction Of Secondary Video Streams                     |
| USP | October 9, 2014    | 62/061,935        | System and Method for Large Volume Data Analytics                   |
| USP | October 21, 2014   | 62/066,734        | Method and System for Thermal Image Analysis                        |
| EP  | November 18, 2014  | 14193634.4        | Video Surveillance System Employing Video Primitives                |
| USP | December 5, 2014   | 62/088,316        | Using Digital Elevation Model Data to Identify and Classify Targets |
| USP | December 5, 2014   | 62/088,373        | Fixed Feature Removal   |
| USP | December 5, 2014   | 62/088,394        | Time-Of-Approach Rule   |
| USP | December 5, 2014   | 62/088,443        | Automatic Rule Creation   |
| USP | December 5, 2014   | 62/088,446        | Rules Based on Map Data   |
| US  | December 19, 2014  | 14/576,818        | System and Method for Identifying Faces in Unconstrained Media      |
| WO  | December 19, 2014  | PCT/US2014/071548 | System and Method for Identifying Faces in Unconstrained Media      |
| USP | January 5, 2015    | 62/099,836        | Automatic Ship Verification   |
| USP | January 9, 2015    | 62/101,755        | SMUDGE REMOVAL  |
| USP | January 9, 2015    | 62/101,733        | Automated Scene Understanding                                       |
| USP | January 9, 2015    | 62/101,707        | 3D Reconstruction Using UAVs  |
| USP | January 9, 2015    | 62/101,646        | TIME OF FLIGHT  |
| USP | January 16, 2015   | 62/104,507        | SMART GATE  |
| USP | January 16, 2015   | 62/104,480        | Geo-Registration of Moving Ground Sensors                           |

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|-----|------------------|------------|--|
| USP | January 30, 2015 | 62/109,748 | SCENE ELEMENT EXTRACTION AND CLASSIFICATION    |
| USP | January 30, 2015 | 62/109,780 | OBJECT RE-IDENTIFICATION BY TRANSFER LEARNING  |
| USP | January 30, 2015 | 62/109,768 | TRACKING BASKETBALL PLAYERS IN REALTIME        |
| USP | January 30, 2015 | 62/109,802 | REPEATED PATTERN DETECTION AND MATCHING        |
| USP | January 30, 2015 | 62/109,817 | RECORDING USER INTERFACES                      |
| USP | January 30, 2015 | 62/110,174 | DISTRIBUTED ARCHITECTURE FOR SKYLINE MATCHING  |
| USP | January 30, 2015 | 62/110,184 | MULTI-USER SUPPORT IN REALTIME MAP OVERLAY     |
| USP | January 30, 2015 | 62/110,190 | VIDEO IMAGE SUMMARY                            |
| USP | January 30, 2015 | 62/110199  | MODELING TRAFFIC PATTERNS                      |
| USP | January 30, 2015 | 62/110,249 | HASHTAG TREND PREDICTION                       |
| USP | January 30, 2015 | 62/109,841 | DEM DATA BOUNDARY HANDLING                     |
| USP | January 30, 2015 | 62/109,861 | CAMERA CALIBRATION DATA COMBINED WITH DEM DATA |
| USP | January 30, 2015 | 62/109,889 | OPTIMIZED TRANSFORM CODING                     |
| USP | January 30, 2015 | 62/109,907 | ENFORCED PERFORMANCE CONSTRAINTS               |
| USP | January 30, 2015 | 62/110,085 | SATELLITE STEREO MATCHING TO OBTAIN HEIGHTS    |
| USP | January 30, 2015 | 62/110,251 | LANDMARK CONFIGURATION MATCHING                |
| USP | January 30, 2015 | 62/110,266 | CHARACTER OCR                                  |
| USP | January 30, 2015 | 62/110,297 | PRIVACY PROTECTION                             |

|     |                  |            |                                 |
|-----|------------------|------------|---------------------------------|
| USP | January 30, 2015 | 62/110,273 | PERIMETER COVERAGE ASSESSMENT   |
| USP | January 30, 2015 | 62/109,922 | MULTI-SOURCE CAMERA CALIBRATION |

AO 120 (Rev. 08/10)

|   |  |
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| <b>TO:</b><br>Mail Stop 8<br>Director of the U.S. Patent and Trademark Office<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 | <b>REPORT ON THE<br/>                 FILING OR DETERMINATION OF AN<br/>                 ACTION REGARDING A PATENT OR<br/>                 TRADEMARK</b> |
|---|--|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Virginia on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

| DOCKET NO.<br>3:12CV363        | DATE FILED<br>3/11/2012     | U.S. DISTRICT COURT<br>Richmond |
|--------------------------------|-----------------------------|---------------------------------|
| PLAINTIFF<br>ObjectVideo, Inc. |                             | DEFENDANT<br>Pelco, Inc.        |
| PATENT OR TRADEMARK NO.        | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK   |
| 1 6,696,945                    | 2/24/2004                   | ObjectVideo                     |
| 2 6,970,083                    | 11/29/2005                  | ObjectVideo                     |
| 3 7,868,912                    | 1/11/2011                   | ObjectVideo                     |
| 4 7,932,923                    | 4/26/2011                   | ObjectVideo                     |
| 5                              |                             |                                 |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| DATE INCLUDED           | INCLUDED BY<br><input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
|-------------------------|---|-------------------------------|
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK   | HOLDER OF PATENT OR TRADEMARK |
| 1                       |   |                               |
| 2                       |   |                               |
| 3                       |   |                               |
| 4                       |   |                               |
| 5                       |   |                               |

In the above—entitled case, the following decision has been rendered or judgement issued:

|                    |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

|                           |                                       |                   |
|---------------------------|---------------------------------------|-------------------|
| CLERK<br>Fernando Galindo | (BY) DEPUTY CLERK<br>Robert L. Walker | DATE<br>5/14/2012 |
|---------------------------|---------------------------------------|-------------------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | OV-103(215811 US)      |

**CONFIRMATION NO. 8277**

**POWER OF ATTORNEY NOTICE**

74712  
Muir Patent Consulting, PLLC  
9913 Georgetown Pike, Suite 200  
P.O. Box 1213  
Great Falls, VA 22066



Date Mailed: 05/03/2012

**NOTICE REGARDING CHANGE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 04/26/2012.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervned as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/gbien-aime/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | 4079-102               |

**CONFIRMATION NO. 8277**

**POA ACCEPTANCE LETTER**

6449  
ROTHWELL, FIGG, ERNST & MANBECK, P.C.  
607 14th Street, N.W.  
SUITE 800  
WASHINGTON, DC 20005



Date Mailed: 05/03/2012

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 04/26/2012.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

*/gbien-aime/*

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

|   |                               |                   |
|---|-------------------------------|-------------------|
| <b>POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM</b> | <b>Application Number</b>     | 11/098,385        |
|   | <b>Filing Date</b>            | April 5, 2005     |
|   | <b>First Named Inventor</b>   | Venetianer et al. |
|   | <b>Art Unit</b>               |                   |
|   | <b>Examiner Name</b>          |                   |
|   | <b>Attorney Docket Number</b> | 4079-102          |
|   | <b>Title</b>                  | Video Tripwire    |

The below-named Assignee of record of the entire interest in the subject application, through its authorized representative identified below, hereby revokes all previous powers of attorney given in the above-identified application and hereby appoints the practitioners associated with the Customer Number 06449 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

*Statement under 37 CFR 3.73(b)*

A chain of title from the inventors, of the patent application/patent identified above, to the current assignee as follows:

1. Assignment From: Peter L. Venetianer, Mark C. Allmen, Paul C. Brewer, Andrew J. Chosak, John I.W. Clark, Matthew F. Frazier, Niels Haering, Tasuki Hirata, Caspar Horne, Alan J. Lipton, William E. Severson, James S. Sfekas, Thomas E. Slowe, Thomas M. Strat, John F. Tilki, Zhong Zhang To: Diamondback Vision, Inc. The document was recorded in the U.S. Patent and Trademark Office at Reel 012473, Frame 0085.
2. Change of Name From: Diamondback Vision, Inc. To: ObjectVideo, Inc. The document was recorded in the U.S. Patent and Trademark Office at Reel 014743, Frame 0573.
3. Security Agreement From: ObjectVideo, Inc. To: RJF OV, LLC The document was recorded in the U.S. Patent and Trademark Office at Reel 020478, Frame 0711.
4. Grant of Security Interest in Patent Rights From: ObjectVideo, Inc. To: RJF OV, LLC The document was recorded in the U.S. Patent and Trademark Office at Reel 021744, Frame 0464.
5. Release of Security Agreement/Interest From: RJF OV, LLC To: ObjectVideo, Inc. The document was recorded in the U.S. Patent and Trademark Office at Reel 027810, Frame 0117.



**ACKNOWLEDGEMENT AND CONSENT BY ASSIGNEE TO OBTAIN  
INSTRUCTIONS FROM ANOTHER PARTY**

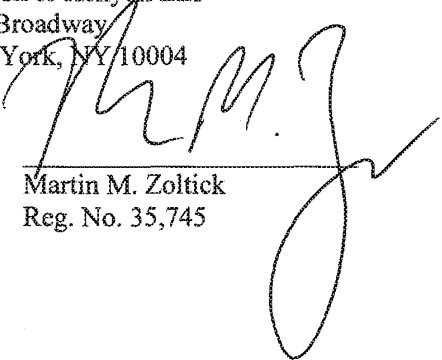
Assignee, through its undersigned authorized representative, hereby acknowledges that the practitioners appointed herein may obtain instructions as to any action to be taken in the U.S. Patent and Trademark Office on any application to which this power of attorney may be directed, or on any patent which may issue on any such application, from assignee's third-party agents or attorneys, or other designee, who have been authorized by assignee to convey such instructions, and assignee expressly consents to this arrangement. In the event of a change in the persons from whom instructions are to be taken, the practitioners appointed herein shall be so notified by the assignee.

|   |  |
|---|--|
| <b>Assignee Name</b>                          | ObjectVideo, Inc.  |
| <b>Signature of Authorized Representative</b> |  |
| <b>Typed or Printed Name</b>                  | Christopher Capnano  |
| <b>Typed or Printed Title</b>                 | General Counsel & VP, Corporate Development  |
| <b>Date</b>                                   | April 26, 2012   |

**CERTIFICATE OF SERVICE**

It is hereby certified that the attached **POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS INDICATION FORM** is being served on the attorney of record for the 3rd party Requester in the above-captioned Reexamination by first class mail at the third party requester's address:

Kenyon & Kenyon LLP  
One Broadway  
New York, NY 10004



Martin M. Zoltick  
Reg. No. 35,745

April 26, 2012

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 12636684   |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Martin M. Zoltick/Carolyn Harty                      |
| <b>Filer Authorized By:</b>                 | Martin M. Zoltick                                    |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 26-APR-2012  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 15:20:09   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest                              | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|--|------------------|------------------|
| 1               | Power of Attorney    | poa2.pdf  | 115331<br><small>900bd79b8f326d62aef68b17a4614e018923e2c</small> | no               | 2                |

### Warnings:

### Information:

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| 2 | Miscellaneous Incoming Letter | certserv.pdf | 21215                                  | no | 1 |
|   |                               |              | f6c07413dc561d1f84ed61e8dda5927066458a |    |   |

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**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

|  |  |
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| <p style="text-align: center;"><b>Mail Stop 8</b><br/> <b>Director of the U.S. Patent and Trademark Office</b><br/> <b>P.O. Box 1450</b><br/> <b>Alexandria, VA 22313-1450</b></p> | <p><b>REPORT ON THE</b><br/> <b>FILING OR DETERMINATION OF AN</b><br/> <b>ACTION REGARDING A PATENT OR</b><br/> <b>TRADEMARK</b></p> |
|--|--|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court ObjectVideo, Inc. v. Bosch, et al. on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

| DOCKET NO.<br><b>3:11cv217</b>        | DATE FILED<br><b>4/6/2011</b> | U.S. DISTRICT COURT<br><b>ObjectVideo, Inc. v. Bosch, et al.</b>   |
|---------------------------------------|-------------------------------|--|
| PLAINTIFF<br><b>ObjectVideo, Inc.</b> |                               | DEFENDANT<br><b>Robert Bosch; Bosch Security Sys., Inc.; Samsung Group; Samsung Tech. Co., Ltd.; Samsung Opto-Electcs. America, Inc.; Sony Corp.; Sony Elects., Inc.</b> |
| PATENT OR TRADEMARK NO.               | DATE OF PATENT OR TRADEMARK   | HOLDER OF PATENT OR TRADEMARK  |
| 1 6,696,945                           | 2/24/2004                     | ObjectVideo, Inc.  |
| 2 6,970,083                           | 11/25/2005                    | ObjectVideo, Inc.  |
| 3 7,613,324                           | 11/3/2009                     | ObjectVideo, Inc.  |
| 4 7,868,912                           | 1/11/2011                     | ObjectVideo, Inc.  |
| 5                                     |                               |  |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| DATE INCLUDED           | INCLUDED BY  |                               |  |
|-------------------------|--|-------------------------------|--|
|                         | <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |  |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK  | HOLDER OF PATENT OR TRADEMARK |  |
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| 2                       |  |                               |  |
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| 4                       |  |                               |  |
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In the above—entitled case, the following decision has been rendered or judgement issued:

|                    |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

|   |                       |                             |
|---|-----------------------|-----------------------------|
| CLERK<br><b>Fernando Galindo, Clerk</b> | (BY) DEPUTY CLERK<br> | DATE<br><b>APR - 7 2011</b> |
|---|-----------------------|-----------------------------|

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3

AO 120 (Rev. 08/10)

|   |  |
|---|--|
| TO: <b>Mail Stop 8</b><br><b>Director of the U.S. Patent and Trademark Office</b><br>P.O. Box 1450<br>Alexandria, VA 22313-1450 | <b>REPORT ON THE<br/>                 FILING OR DETERMINATION OF AN<br/>                 ACTION REGARDING A PATENT OR<br/>                 TRADEMARK</b> |
|---|--|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court ObjectVideo, Inc. v. Bosch, et al. on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

| DOCKET NO.<br><b>3:11cv217</b>        | DATE FILED<br><b>4/6/2011</b> | U.S. DISTRICT COURT<br><b>ObjectVideo, Inc. v. Bosch, et al.</b>   |
|---------------------------------------|-------------------------------|--|
| PLAINTIFF<br><b>ObjectVideo, Inc.</b> |                               | DEFENDANT<br><b>Robert Bosch; Bosch Security Sys., Inc.; Samsung Group; Samsung Tech. Co., Ltd.; Samsung Opto-Electcs. America, Inc.; Sony Corp.; Sony Elects., Inc.</b> |
| PATENT OR TRADEMARK NO.               | DATE OF PATENT OR TRADEMARK   | HOLDER OF PATENT OR TRADEMARK  |
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| 2 6,970,083                           | 11/25/2005                    | ObjectVideo, Inc.  |
| 3 7,613,324                           | 11/3/2009                     | ObjectVideo, Inc.  |
| 4 7,868,912                           | 1/11/2011                     | ObjectVideo, Inc.  |
| 5                                     |                               |  |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| DATE INCLUDED           | INCLUDED BY  |                               |
|-------------------------|--|-------------------------------|
|                         | <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK  | HOLDER OF PATENT OR TRADEMARK |
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In the above—entitled case, the following decision has been rendered or judgement issued:

|                    |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

|   |                   |                             |
|---|-------------------|-----------------------------|
| CLERK<br><b>Fernando Galindo, Clerk</b> | (BY) DEPUTY CLERK | DATE<br><b>APR - 7 2011</b> |
|---|-------------------|-----------------------------|

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| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 11/098,385      | 01/11/2011 | 7868912    | OV-103(215811 US)   | 8277             |

74712 7590 12/22/2010  
Muir Patent Consulting, PLLC  
9913 Georgetown Pike, Suite 200  
P.O. Box 1213  
Great Falls, VA 22066

**ISSUE NOTIFICATION**

The projected patent number and issue date are specified above.

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 1612 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Peter L. Venetianer, McLean, VA;  
Alan J. Lipton, Herndon, VA;  
Andrew J. Chosak, Arlington, VA;  
Matthew F. Frazier, Arlington, VA;  
Niels Haering, Reston, VA;  
Gary W. Myers, Ashburn, VA;  
Weihong Yin, Herndon, VA;  
Zhong Zhang, Herndon, VA;

**PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail** **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
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**or Fax (571) 273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Muir Patent Consulting, PLLC  
 9913 Georgetown Pike, Suite 200  
 P.O. Box 1213  
 Great Falls, VA 22066

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                             |
|-----------------------------|
| _____<br>(Depositor's name) |
| _____<br>(Signature)        |
| _____<br>(Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 11/098,385      | 2005-04-05  | Peter L. Venetianer  | OV-103              | 8277             |

TITLE OF INVENTION:

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | yes          | 755       | 300             | 1055             | 2010-11-30 |
| EXAMINER       |              | ART UNIT  | CLASS-SUBCLASS  |                  |            |
|                |              |           |                 |                  |            |

|  |   |   |
|--|---|---|
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).<br><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.<br><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47, Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b> | 2. For printing on the patent front page, list<br>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,<br>(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | 1. <u>    </u> Muir Patent Consulting, PLLC<br>2. <u>    </u><br>3. <u>    </u> |
|--|---|---|

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  
 PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: **ObjectVideo, Inc.**  
 (B) RESIDENCE: (CITY and STATE OR COUNTRY)  
**11600 Sunrise Valley Drive, Suite 290**  
**Reston, VA 20191**

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

|   |   |
|---|---|
| 4a. The following fee(s) are enclosed:<br><input checked="" type="checkbox"/> Issue Fee<br><input checked="" type="checkbox"/> Publication Fee (No small entity discount permitted)<br><input type="checkbox"/> Advance Order - # of Copies <u>    </u> | 4b. Payment of Fee(s):<br><input type="checkbox"/> A check in the amount of the fee(s) is enclosed.<br><input checked="" type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.<br><input checked="" type="checkbox"/> The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number <b>50-4574</b> |
|---|---|

5. Change in Entity Status (from status indicated above)  
 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  
 NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Patrick D. Muir/ Date **2010-11-30**  
 Typed or printed name **Patrick D. Muir, Reg. #37,403** Registration No. **37,403**

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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## Electronic Patent Application Fee Transmittal

|   |  |
|---|--|
| <b>Application Number:</b>                  | 11098385   |
| <b>Filing Date:</b>                         | 05-Apr-2005  |
| <b>Title of Invention:</b>                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Filer:</b>                               | Patrick Daniel Muir/Melissa McGinn                   |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |

Filed as Small Entity

### Utility under 35 USC 111(a) Filing Fees

| Description                              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| <b>Basic Filing:</b>                     |          |          |        |                      |
| <b>Pages:</b>                            |          |          |        |                      |
| <b>Claims:</b>                           |          |          |        |                      |
| <b>Miscellaneous-Filing:</b>             |          |          |        |                      |
| <b>Petition:</b>                         |          |          |        |                      |
| <b>Patent-Appeals-and-Interference:</b>  |          |          |        |                      |
| <b>Post-Allowance-and-Post-Issuance:</b> |          |          |        |                      |
| Utility Appl issue fee                   | 2501     | 1        | 755    | 755                  |
| Publ. Fee- early, voluntary, or normal   | 1504     | 1        | 300    | 300                  |

| Description               | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---------------------------|----------|----------|--------|----------------------|
| <b>Extension-of-Time:</b> |          |          |        |                      |
| <b>Miscellaneous:</b>     |          |          |        |                      |
| <b>Total in USD (\$)</b>  |          |          |        | <b>1055</b>          |

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 8930731  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Patrick Daniel Muir/Melissa McGinn                   |
| <b>Filer Authorized By:</b>                 | Patrick Daniel Muir                                  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 30-NOV-2010  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 13:14:18   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|   |                 |
|---|-----------------|
| Submitted with Payment  | yes             |
| Payment Type  | Deposit Account |
| Payment was successfully received in RAM  | \$ 1055         |
| RAM confirmation Number   | 10670           |
| Deposit Account   | 504574          |
| Authorized User   |                 |
| <p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <ul style="list-style-type: none"> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</li> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</li> </ul> |                 |

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

**File Listing:**

| Document Number | Document Description        | File Name            | File Size(Bytes)/ Message Digest                   | Multi Part /.zip | Pages (if appl.) |
|-----------------|-----------------------------|----------------------|--|------------------|------------------|
| 1               | Issue Fee Payment (PTO-85B) | OV_103_issue_fee.pdf | 229576<br>56976a541bd806b3bd24682f7177463195011230 | no               | 2                |

**Warnings:**

**Information:**

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|---|-------------------------|--------------|--|----|---|
| 2 | Fee Worksheet (PTO-875) | fee-info.pdf | 31711<br>d4243c5394ff4ea334b7e9a49c47b9c9793b037 | no | 2 |
|---|-------------------------|--------------|--|----|---|

**Warnings:**

**Information:**

**Total Files Size (in bytes):** 261287

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Receipt date: 11/13/2007

Used in USPTO's SB/PA/WB (Based on 2004 version) AU: 2621



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|--|---|--------------------------|---------------------------|
| Substitute for form 1449/PTO                         |   | <b>Complete if Known</b> |                           |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> |   | Application Number       | 11/098,385 – Conf. # 8277 |
|  |   | Filing Date              | April 5, 2005             |
|  |   | First Named Inventor     | Peter L. Venetianer       |
|  |   | Art Unit                 | 2621                      |
|  |   | Examiner Name            | Mehrdad Dastouri          |
| Sheet  | 1 | of                       | 1                         |
|  |   | Attorney Docket Number   | 37112-215811              |

| U.S. PATENT DOCUMENTS |                       |  |                             |   |   |
|-----------------------|-----------------------|--|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |                             |   |   |
|                       | AA                    | 6,987,528                                | 01/17/06                    | Nagahisa  |   |
|                       | AB                    | 6,741,977                                | 05/25/04                    | Nagaya  |   |
|                       | AC                    | 6,542,840                                | 04/01/03                    | <del>Shusaku Okamoto et al.</del>               |   |
|                       | AD                    | 6,816,184                                | 11/2004                     | Brill et al.                                    |   |
|                       | AE                    | 7,023,469                                | 04/2006                     | Olson   |   |
|                       | AF                    | 6,924,801                                | 08/2005                     | Dorbie  |   |
|                       | AG                    | 6,844,818                                | 01/2005                     | Grech-Cini                                      |   |
|                       | AH                    | 2002/0024446                             | 02/2002                     | Grech-Cini                                      |   |
|                       | AI                    | 2002/0163521                             | 11/2002                     | Ellenby et al.                                  |   |
|                       | AJ                    | 6,088,484                                | 07/2000                     | Mead  |   |
|                       | AK                    | 2002/0051058                             | 05/2002                     | Ito et al.                                      |   |
|                       | AL                    | 6,829,371                                | 12/2004                     | Nichani et al.                                  |   |
|                       | AM                    | 6,404,455                                | 06/2002                     | Ito et al.                                      |   |
|                       | AN                    | 2003/0053659                             | 03/2003                     | Pavlidis et al.                                 |   |
|                       | AO                    | 4,737,847                                | 04/1988                     | Araki et al.                                    |   |
|                       | AP                    | 2002/0135483                             | 09/2002                     | Merheim et al.                                  |   |
|                       | AQ                    | 5,802,361                                | 09/1998                     | Wang et al.                                     |   |
|                       | AR                    | 5,515,453                                | 05/1996                     | Hennessey et al.                                |   |
|                       | AS                    | 4,908,704                                | 03/1990                     | Fujioka et al.                                  |   |
|                       | AT                    | 5,872,865                                | 02/1999                     | Normile et al.                                  |   |

*Handwritten initials and date: 10/18/10*

| FOREIGN PATENT DOCUMENTS |                       |   |                             |   |   |                |
|--------------------------|-----------------------|---|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>2</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                             |   |   |                |
|                          | BA                    | JP 10-048008  | 2/20/98                     | Omron   |   | ✓              |
|                          | BB                    | JP 2000-339923  | 8/12/2000                   | Mitsubishi                                      |   | ✓              |
|                          | BC                    | JP 2000-224542  | 11/08/2000                  | Hitachi   |   | ✓              |
|                          | BD                    | EP 1024666 A2   | 8/02/2000                   | Hitachi   |   |                |
|                          | BE                    | JP 2001-175868  | 6/29/01                     | NEC Corp  |   | ✓              |
|                          | BF                    | JP 2000-175174  | 6/23/2000                   | Mitsubishi                                      |   | ✓              |
|                          | BG                    | JP 2001-285681  | 10/12/2001                  | Matsushita                                      |   | ✓              |
|                          | BH                    | EP 1120746 A2   | 8/01/2001                   | Matsushita                                      |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article ( when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | JP Office Action issued in PCT/US02/22688, along with an English translation  | 10/09/2007     |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

DC 2/90 3209

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./



UNITED STATES PATENT AND TRADEMARK OFFICE

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Bib Data Sheet

CONFIRMATION NO. 8277

|                                    |   |                     |                               |   |
|------------------------------------|---|---------------------|-------------------------------|---|
| <b>SERIAL NUMBER</b><br>11/098,385 | <b>FILING OR 371(c) DATE</b><br>04/05/2005<br><b>RULE</b> | <b>CLASS</b><br>348 | <b>GROUP ART UNIT</b><br>2621 | <b>ATTORNEY DOCKET NO.</b><br>OV-103(215811 US) |
|------------------------------------|---|---------------------|-------------------------------|---|

**APPLICANTS**  
 Peter L. Venetianer, McLean, VA;  
 Alan J. Lipton, Herndon, VA;  
 Andrew J. Chosak, Arlington, VA;  
 Matthew F. Frazier, Arlington, VA;  
 Niels Haering, Reston, VA;  
 Gary W. Myers, Ashburn, VA;  
 Weihong Yin, Herndon, VA;  
 Zhong Zhang, Herndon, VA;

**\*\* CONTINUING DATA \*\*\*\*\***  
 This application is a CIP of 11/057,154 02/15/2005  
 which is a CIP of 09/987,707 11/15/2001 ABN  
 which is a CIP of 09/694,712 10/24/2000 PAT 6,954,498

**\*\* FOREIGN APPLICATIONS \*\*\*\*\***

**IF REQUIRED, FOREIGN FILING LICENSE GRANTED \*\* SMALL ENTITY \*\***  
**\*\* 04/27/2005**

|  |                               |                             |                           |                                |
|--|-------------------------------|-----------------------------|---------------------------|--------------------------------|
| Foreign Priority claimed<br><input type="checkbox"/> yes <input type="checkbox"/> no   | <b>STATE OR COUNTRY</b><br>VA | <b>SHEETS DRAWING</b><br>19 | <b>TOTAL CLAIMS</b><br>26 | <b>INDEPENDENT CLAIMS</b><br>2 |
| 35 USC 119 (a-d) conditions met<br><input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance |                               |                             |                           |                                |
| Verified and Acknowledged<br>Examiner's Signature _____ Initials _____   |                               |                             |                           |                                |

**ADDRESS**  
74712

**TITLE**  
VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES

|                                    |   |  |
|------------------------------------|---|--|
| <b>FILING FEE RECEIVED</b><br>1116 | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: | <input type="checkbox"/> All Fees                              |
|                                    |   | <input type="checkbox"/> 1.16 Fees ( Filing )                  |
|                                    |   | <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) |
|                                    |   | <input type="checkbox"/> 1.18 Fees ( Issue )                   |
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NOTICE OF ALLOWANCE AND FEE(S) DUE

74712 7590 08/31/2010
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VO, TUNG T
ART UNIT PAPER NUMBER
2621
DATE MAILED: 08/31/2010

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/098,385 04/05/2005 Peter L. Venetianer OV-103(215811 US) 8277

TITLE OF INVENTION: VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional YES \$755 \$300 \$0 \$1055 11/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



**PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

74712 7590 08/31/2010

MUIR PATENT CONSULTING, PLLC  
 9913 Georgetown Pike, Suite 200  
 P.O. Box 1213  
 GREAT FALLS, VA 22066

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                             |
|-----------------------------|
| _____<br>(Depositor's name) |
| _____<br>(Signature)        |
| _____<br>(Date)             |

|                               |                           |   |  |                          |
|-------------------------------|---------------------------|---|--|--------------------------|
| APPLICATION NO.<br>11/098,385 | FILING DATE<br>04/05/2005 | FIRST NAMED INVENTOR<br>Peter L. Venetianer | ATTORNEY DOCKET NO.<br>OV-103(215811 US) | CONFIRMATION NO.<br>8277 |
|-------------------------------|---------------------------|---|--|--------------------------|

TITLE OF INVENTION: VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES

|                               |                     |                        |                              |                             |                            |                        |
|-------------------------------|---------------------|------------------------|------------------------------|-----------------------------|----------------------------|------------------------|
| APPLN. TYPE<br>nonprovisional | SMALL ENTITY<br>YES | ISSUE FEE DUE<br>\$755 | PUBLICATION FEE DUE<br>\$300 | PREV. PAID ISSUE FEE<br>\$0 | TOTAL FEE(S) DUE<br>\$1055 | DATE DUE<br>11/30/2010 |
|-------------------------------|---------------------|------------------------|------------------------------|-----------------------------|----------------------------|------------------------|

|                        |                  |                              |
|------------------------|------------------|------------------------------|
| EXAMINER<br>VO, TUNG T | ART UNIT<br>2621 | CLASS-SUBCLASS<br>348-143000 |
|------------------------|------------------|------------------------------|

|   |   |
|---|---|
| <p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b></p> | <p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p> |
|---|---|

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE \_\_\_\_\_ (B) RESIDENCE: (CITY and STATE OR COUNTRY) \_\_\_\_\_

Please check the appropriate assignee category or categories (will not be printed on the patent) :  Individual  Corporation or other private group entity  Government

|   |  |
|---|--|
| <p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p> | <p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p> |
|---|--|

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER. Includes application details for Peter L. Venetianer and examiner information.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1103 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1103 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|                               |                        |                     |  |
|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 11/098,385             | VENETIANER ET AL.   |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Tung Vo                | 2621                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the amendment filed on 07/29/2010.
2.  The allowed claim(s) is/are 27-29,31-35,37-39,41-45,47-51 and 53.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>06/03/2010</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|  | 9. <input type="checkbox"/> Other _____.   |

/Tung Vo/  
Primary Examiner, Art Unit 2621

**DETAILED ACTION**

*Allowable Subject Matter*

1. Claims 27-29, 31-35, 37-39, 41-45, 47-51, and 53 are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art of records does not disclose a video system comprising: a first processor which analyzes a video to determine attributes of objects detected in the video, the first processor being in communication with a first communications link to transfer the determined attributes over the communications link; and a second processor, separate from the first processor, in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, which determines a first event that is not one of the determined attributes by analyzing a combination of the received determined attributes and which provides, in response to a determination of the first event, at least one of an alert to a user, information for a report, and an instruction for taking an action, wherein the first processor determines attributes independent of a selection of the first event by the second processor, and wherein the second processor determines the first event without reprocessing the video analyzed by the first processor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Art Unit: 2621

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Wednesday, Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/  
Primary Examiner, Art Unit 2621


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|--|--|---|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br>Tung Vo                 | <b>Art Unit</b><br>2621   |

| ORIGINAL                  |                                   |  |          |  |  | INTERNATIONAL CLASSIFICATION |   |   |   |                     |             |  |  |  |  |  |  |  |  |  |
|---------------------------|-----------------------------------|--|----------|--|--|------------------------------|---|---|---|---------------------|-------------|--|--|--|--|--|--|--|--|--|
| CLASS                     |                                   |  | SUBCLASS |  |  | CLAIMED                      |   |   |   |                     | NON-CLAIMED |  |  |  |  |  |  |  |  |  |
| 348                       |                                   |  | 143      |  |  | H                            | 0 | 4 | N | 7 / 18 (2006.01.01) |             |  |  |  |  |  |  |  |  |  |
| <b>CROSS REFERENCE(S)</b> |                                   |  |          |  |  |                              |   |   |   |                     |             |  |  |  |  |  |  |  |  |  |
| CLASS                     | SUBCLASS (ONE SUBCLASS PER BLOCK) |  |          |  |  |                              |   |   |   |                     |             |  |  |  |  |  |  |  |  |  |
|                           |                                   |  |          |  |  |                              |   |   |   |                     |             |  |  |  |  |  |  |  |  |  |
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|                           |                                   |  |          |  |  |                              |   |   |   |                     |             |  |  |  |  |  |  |  |  |  |

Claims renumbered in the same order as presented by applicant     CPA     T.D.     R.1.47

| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
|       | 1        |       | 17       | 6     | 33       | 19    | 49       |       |          |       |          |       |          |       |          |
|       | 2        |       | 18       | 7     | 34       | 20    | 50       |       |          |       |          |       |          |       |          |
|       | 3        |       | 19       | 8     | 35       | 21    | 51       |       |          |       |          |       |          |       |          |
|       | 4        |       | 20       |       | 36       |       | 52       |       |          |       |          |       |          |       |          |
|       | 5        |       | 21       | 9     | 37       | 22    | 53       |       |          |       |          |       |          |       |          |
|       | 6        |       | 22       | 10    | 38       |       |          |       |          |       |          |       |          |       |          |
|       | 7        |       | 23       | 11    | 39       |       |          |       |          |       |          |       |          |       |          |
|       | 8        |       | 24       |       | 40       |       |          |       |          |       |          |       |          |       |          |
|       | 9        |       | 25       | 12    | 41       |       |          |       |          |       |          |       |          |       |          |
|       | 10       |       | 26       | 13    | 42       |       |          |       |          |       |          |       |          |       |          |
|       | 11       | 1     | 27       | 14    | 43       |       |          |       |          |       |          |       |          |       |          |
|       | 12       | 2     | 28       | 15    | 44       |       |          |       |          |       |          |       |          |       |          |
|       | 13       | 3     | 29       | 16    | 45       |       |          |       |          |       |          |       |          |       |          |
|       | 14       |       | 30       |       | 46       |       |          |       |          |       |          |       |          |       |          |
|       | 15       | 4     | 31       | 17    | 47       |       |          |       |          |       |          |       |          |       |          |
|       | 16       | 5     | 32       | 18    | 48       |       |          |       |          |       |          |       |          |       |          |

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|--|------------------------------------|--------------------------|
| NONE   | <b>Total Claims Allowed:</b><br>22 |                          |
| (Assistant Examiner)                         | (Date)                             |                          |
| /Tung Vo/<br>Primary Examiner, Art Unit 2621 | 08/11/2010                         | O.G. Print Claim(s)<br>1 |
| (Primary Examiner)                           | (Date)                             | O.G. Print Figure<br>1   |

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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br><br>Tung Vo                 | <b>Art Unit</b><br><br>2621   |

| SEARCHED |                                   |           |          |
|----------|-----------------------------------|-----------|----------|
| Class    | Subclass                          | Date      | Examiner |
| 348      | 143, 148, 150, 149, 166, 169, 170 | 3/31/2009 | TV       |
| 382      | 103, 115                          | 3/31/2009 | TV       |
| 375      | 240.02, 240.08                    | 3/31/2009 | TV       |
| h04n     | 7/18                              | 8/11/2010 | TV       |

| SEARCH NOTES        |           |          |
|---------------------|-----------|----------|
| Search Notes        | Date      | Examiner |
| EAST                | 3/31/2009 | TV       |
| INVENTOR SEARCH     | 8/11/2010 | TV       |
| INTERFERENCE SEARCH | 8/11/2010 | TV       |
| CLAIM SEARCH        | 8/11/2010 | TV       |

| INTERFERENCE SEARCH |          |          |          |
|---------------------|----------|----------|----------|
| Class               | Subclass | Date     | Examiner |
| 375                 | 240.18   | 3/5/2010 | TV       |

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**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| L1    | 8      | (video same attributes same objects same event same detect\$4).clm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:27 |
| L2    | 93717  | alan.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:36 |
| L3    | 925    | lipton.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:36 |
| L4    | 411495 | thomas.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:36 |
| L5    | 220    | strat.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:36 |
| L6    | 12     | 2 and 3 and 4 and 5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/08/11<br>08:36 |



|     |        |                   |   |     |    |                     |
|-----|--------|-------------------|---|-----|----|---------------------|
| L7  | 95374  | object with video | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:37 |
| L8  | 353    | primitive         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:37 |
| L9  | 9      | 7 and 8           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:37 |
| L10 | 0      | vanetianer.in.    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:37 |
| L11 | 332894 | peter.in.         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:37 |
| L12 | 128    | venetianer.in.    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:38 |
| L13 | 332894 | peter.in.         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:38 |
| L14 | 70     | 12 and 13         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/08/11<br>08:38 |

**EAST Search History (I nterference)**

| Ref # | Hits   | Search Query   | DBs            | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|----------------|------------------|---------|------------------|
| L15   | 28     | (video same attributes same objects same event same detect\$4) | USPAT;<br>UPAD | AND              | ON      | 2010/08/11 08:39 |
| L16   | 14     | venetianer.in.   | USPAT;<br>UPAD | AND              | ON      | 2010/08/11 08:39 |
| L17   | 120201 | peter.in.  | USPAT;<br>UPAD | AND              | ON      | 2010/08/11 08:39 |
| L18   | 12     | 16 and 17  | USPAT;<br>UPAD | AND              | ON      | 2010/08/11 08:39 |

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| IDS Form PTO/SB/08: Substitute for form 1449A/PTO  |   |    | <b>Complete if Known</b>    |                               |        |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <i>Application Number</i>   | 11/098,385                    |        |
|  |   |    | <i>Filing Date</i>          | April 5, 2005                 |        |
|  |   |    | <i>First Named Inventor</i> | Peter L. Venetianer           |        |
|  |   |    | <i>Art Unit</i>             | 2621                          |        |
|  |   |    | <i>Examiner Name</i>        | Tung Vo                       |        |
| Sheet  | 1 | of | 1                           | <i>Attorney Docket Number</i> | OV-103 |

| U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS |                       |  |   |   |   |
|---|-----------------------|--|---|---|---|
| Examiner Initials                                   | Cite No. <sup>1</sup> | Document Number                          | Issue or Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|   |                       | Number-Kind Code <sup>2</sup> (if known) |   |   |   |
|   | 1                     | US-2003/0043160 A1                       | 03-06-2003                              | Elfvig, et al.                                  |   |
|   | 2                     | US-2003/0085992 A1                       | 05-08-2003                              | Arpa, et al.                                    |   |
|   |                       |  |   |   |   |
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| FOREIGN PATENT DOCUMENTS |                       |   |                                |   |   |                          |
|--------------------------|-----------------------|---|--------------------------------|---|---|--------------------------|
| Examiner Initials        | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Translation <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |   |   |                          |
|                          | 1                     | WO-2004/006184 A2   | 01-15-2004                     | Talmon Gad, et al.                              |   |                          |
|                          | 2                     | WO-03/044727 A1   | 05-30-2003                     | Diamondback Vision Inc.                         |   |                          |
|                          | 3                     | EP-0967584 A2   | 12-29-1999                     | Texas Instruments Inc.                          |   |                          |
|                          |                       |   |                                |   |   |                          |

| NONPATENT LITERATURE DOCUMENTS |                       |   |                          |
|--------------------------------|-----------------------|---|--------------------------|
| Examiner Initials              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Translation <sup>6</sup> |
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| Examiner Signature | /Tung Vo/ (08/24/2010) | Date Considered | 08/24/2010 |
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OK TO ENTER: /T.V./ (08/24/2010)

Application Serial No. 11/098,385  
Amendment of July 29, 2010

Customer No. 74,712  
Attorney Docket No. OV-103

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of: Venetianer et al. Attorney Docket: OV-103  
Serial Number: 11/098,385 Group Art Unit: 2621  
Filed: April 5, 2005 Examiner: Tung Vo  
Confirmation Number: 8277

Title: **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO  
PRIMITIVES**

AMENDMENT AND INTERVIEW SUMMARY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

This is a response to the Office Action of March 22, 2010. A two month extension of time is filed concurrently with this response. Prior to examination on the merits and calculation of relevant fees, please enter the following amendment.

Application Serial No. 11/098,385  
Amendment of July 29, 2010

Customer No. 74,712  
Attorney Docket No. OV-103

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of: Venetianer et al. Attorney Docket: OV-103  
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PRIMITIVES**

AMENDMENT AND INTERVIEW SUMMARY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

This is a response to the Office Action of March 22, 2010. A two month extension of time is filed concurrently with this response. Prior to examination on the merits and calculation of relevant fees, please enter the following amendment.

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claims 1-26 (Cancelled).

27. (Currently Amended) A video system comprising:

a first processor which analyzes a video to determine attributes of objects detected in the video, the first processor being in communication with a first communications link to transfer the determined attributes over the communications link; and

a second processor, separate from the first processor, in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, which determines a first event that is not one of the determined attributes by analyzing a combination of the received determined attributes and which provides, in response to a determination of the first event, at least one of an alert to a user, information for a report, and an instruction for taking an action,

wherein the first processor determines attributes independent of a selection of the first event by the second processor, and

wherein the second processor determines the first event without reprocessing the video analyzed by the first processor.

28. (Previously Presented) The video system of claim 27, wherein the first communications link comprises a network.

29. (Previously Presented) The video system of claim 27, wherein the second processor determines the first event by analyzing only the attributes transferred by the communications link.

30. (Cancelled).

31. (Previously Presented) The video system of claim 27, wherein the second processor analyzes the attributes to detect the first event in real time.

32. (Previously Presented) The video system of claim 27, further comprising:  
a third processor, separate from the first processor and second processor, in communication with the first processor over a second communications link, the third processor configured to determine a second event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the second communications link,

wherein the second processor determines the first event independent from the determination of the second event by the third processor and the third processor



determines the second event independent from the determination of the first event by the second processor.

33. (Currently Amended) A video system, comprising:

an input in communication with a communications channel;

a processor configured to receive from the input a stream of detected attributes received over the communications channel, the attributes being attributes of one or more objects detected in a video, the processor configured to determine an event that is not one of the detected attributes by analyzing a combination of the received attributes and configured to provide, upon a determination of the event, at least one of an alert to a user, information for a report and an instruction for taking an action,

wherein the attributes received over the communications channel are independent of the event to be determined by the processor, and

wherein the processor is configured to determine the event without reprocessing the video.

34. (Previously Presented) The video system of claim 33, wherein the communications channel comprises a network.

35. (Previously Presented) The video system of claim 33, wherein the processor is operable to determine an event by analyzing only attributes of the received stream of attributes.

36. (Cancelled).

37. (Currently Amended) A method of detecting an event from a video, comprising:

receiving a stream of detected attributes over a communications channel, the detected attributes representing attributes of an object previously detected in [[a]] the video at a remote location;

performing an analysis of a combination of the detected attributes to detect an event that is not one of the detected attributes without reprocessing the video,

upon detecting the event, providing at least one of an alert to a user, information for a report and an instruction for taking an action,

wherein the detected attributes received in the stream of attributes are independent of a selection of the event to be detected.

38. (Previously Presented) The method of claim 37, wherein the communications channel comprises a network.

39. (Previously Presented) The method of claim 37, wherein the analysis performed to detect an event determines an event by analyzing only attributes received in the stream of detected attributes.

40. (Cancelled).

41. (Currently Amended) A method comprising:

analyzing a video to detect an object;

creating a stream of attributes at a first location by determining attributes of the detected object by analyzing the video;

transmitting the stream of attributes to a second location removed from the first location for subsequent analysis,

wherein the stream of attributes are transmitted to the second location over a communications channel, and

wherein the stream of attributes is sufficient to allow the subsequent analysis to detect an event of the video to provide at least one of an alert to a user, information for a report and an instruction for taking an action, the event not being one of the determined attributes,

wherein the stream of attributes is sufficient to allow detection of the event that is not one of the determined attributes without reprocessing the video of the first location.

42. (Previously Presented) The method of claim 41, further comprising:  
obtaining the video with a video capture apparatus.

43. (Previously Presented) The method of claim 41, wherein the communications channel comprises a network.

44. (Previously Presented) The method of claim 41, wherein the attributes of the stream of attributes are created independently of the subsequent analysis.

45. (Previously Presented) The method of claim 41, wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes by analyzing a combination of the attributes.

46. (Cancelled).

47. (Previously Presented) The method of claim 41, wherein the stream of attributes is transmitted over a communications channel without detection of an event at the first location.

48. (Currently Amended) A video device, comprising:  
a processor at a first location which analyzes a video to detect an object and to determine attributes of the object detected in the video;  
an output configured to transmit the attributes determined by the processor over a communications link,  
wherein the output is configured to transmit the attributes to a second location removed from the processor for a subsequent analysis of a combination of the attributes at the second location,

wherein the processor determines attributes independently of a subsequent analysis of a combination of attributes to determine an event that is not one of the determined attributes, and

wherein the attributes are sufficient to allow detection of an event to provide at least one of an alert to a user, information for a report and an instruction for taking an action, the event not being ~~that is not~~ one of the determined attributes and being determinable by analyzing the combination of the attributes,

wherein the attributes are sufficient to allow detection of an event without reprocessing the video of the first location.

49. (Previously Presented) The video device of claim 48, further comprising:  
a video capture apparatus to provide the video to the processor.

50. (Previously Presented) The video device of claim 48, wherein the output transmits a stream of the detected attributes over the communications link.

51. (Previously Presented) The video device of claim 50, wherein the communications link comprises a network.

52. (Cancelled).

53. (Previously Presented) The video device of claim 48, wherein the attributes are transmitted over the communications channel without detection of an event by the processor.

## REMARKS

With this amendment, claims 30, 36, 40, 46 and 52 have been cancelled and independent claims 27, 33, 37, 41 and 48 are amended. Claims 27-29, 31-35, 37-39, 41-45, 47-51 and 53 are pending.

The Applicant thanks Examiner Vo for his time during the personal interview of July 22, 2010. During the interview, the Applicant's highlighted the differences of the invention and the prior art, including the use of a first and second processor of claim 27, where the second processor is separate from the first processor and determines an event by analyzing attributes determined by the first processor. In contrast, to determine an event, the prior art relies on processing a video by the processor performing the event determination. While other independent claims do not require both the first and second processors, similar differences are reflected in their recitations as discussed with more specificity below. Details of the interview are further reflected in the comments below.

Claims 27-53 are rejected under 35 U.S.C. § 102(e) as being anticipated by Brown et al. This rejection is respectfully traversed.

With respect to claim 27, the Examiner points to Figure 1 of Brown et al. as teaching a first processor 104 and a second processor 108. The Examiner highlights Figure 9, steps 950-970 as showing the feature of determining an event that is not one of the determined attributes by analyzing a combination of the received determined attributes.

Brown et al. shows in Figure 1 a network of data processing systems including a server 104 coupled to video input devices 150-154. The server 104 may incorporate a

viewable video index video analysis system. See col. 6, lines 4-18, and col. 7, starting at line 56. The viewable video index may be distributed to a client device that may be used by a user to monitor the video capture areas. See col. 8, lines 59-62. The viewable video index may be used to generate a video representation and a timeline representation with event markers. (see Fig. 7 and col. 13, lines 53-64)

As noted above, the Examiner highlights steps 950-970 of Figure 9 as evidence of a second processor (108) determining a first event. The Examiner is respectfully requested to reconsider this position. In particular, as discussed at col. 15, lines 34-48, step 950 relates to generating a representation of the video data by superimposing the moving object images on the background image (step 950), generating a timeline representation that includes event markers (step 960) and updating various information of the moving objects as the representation steps through the time sequence indicated by the tracking information file or in response to the selection of an event marker (step 970). However, steps 950-970 of Brown et al. do not determine an event.

In contrast, Figure 8 does include a step for determining an event. As stated at col. 15, lines 3-5, “video data is analyzed to determine the occurrence of events and a sequence of events is generated (step 850).” However, as recognized by the Examiner, Figure 8 (including the determination of events in step 850) relates to actions of server 104 (identified as the first processor by the Examiner). However, claim 27 recites that the *second* processor “determines a first event ...” Thus, the event determination of step 850 does not meet the recitations of claim 27.

Further, claim 27 recites that the “second processor determines the first event without reprocessing the video analyzed by the first processor.” However, to



determine an event, Brown et al. processes a video by the processor performing the event determination. See col. 15, lines 3-5, lines 63-66, col. 13 lines 52-61 of Brown et al., e.g. For this additional reason, the Examiner is respectfully requested to reconsider and withdraw the rejection with respect to claim 27.

With respect to claim 33, claim 33 recites “a processor configured to receive ... a stream of detected attributes received over the communications channel, ... the processor configured to determine an event that is not one of the detected attributes ... and wherein the processor is configured to determine the event without reprocessing the video.”

Claim 37 recites “receiving a stream of detected attributes over a communications channel, the detected attributes representing attributes of an object previously detected in the video at a remote location; performing an analysis of a combination of the detected attributes to detect an event that is not one of the detected attributes without reprocessing the video ...”

Claim 41 recites “transmitting the stream of attributes to a second location removed from the first location for subsequent analysis ... wherein the stream of attributes is sufficient to allow detection of the event that is not one of the determined attributes without reprocessing the video of the first location.”

Claim 48 recites “a processor at a first location which analyzes a video to detect an object and to determine attributes of the object detected in the video ... wherein the attributes are sufficient to allow detection of an event without reprocessing the video of the first location.”

Brown et al. has been discussed above. Brown et al. fails to teach the recitations of independent claims 33, 37, 41 and 48. Thus, the Examiner is respectfully requested to reconsider and withdraw the rejection of these claims.

Claims 28, 29, 31, 32, 34, 35, 38, 39, 42-45, 47, 49-51 and 53 depend from one of claims 27, 33, 37, 41 and 48, discussed above and are allowable at least for this reason.

It is believed that this application is in condition for allowance. Favorable consideration and prompt allowance are respectfully requested. A two month extension of time is filed concurrently with this amendment. However, in the event any fees are required in connection with this paper, please charge Deposit Account No. 50-4574. Any overpayment may be credited to Deposit Account No. 50-4574.

Respectfully submitted,

/Patrick D. Muir/ Reg. #37403

MUIR PATENT CONSULTING, PLLC.  
9913 Georgetown Pike, Suite 200  
Great Falls, VA 22066  
Fax: (703) 757-7447

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Patrick D. Muir  
Attorney for Applicants,  
Registration No. 37,403  
Tel: (703) 757-7444

### Electronic Patent Application Fee Transmittal

|   |  |
|---|--|
| <b>Application Number:</b>                  | 11098385   |
| <b>Filing Date:</b>                         | 05-Apr-2005  |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Filer:</b>                               | Patrick Daniel Muir                                  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |

Filed as Large Entity

#### Utility under 35 USC 111(a) Filing Fees

| Description                              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| <b>Basic Filing:</b>                     |          |          |        |                      |
| <b>Pages:</b>                            |          |          |        |                      |
| <b>Claims:</b>                           |          |          |        |                      |
| <b>Miscellaneous-Filing:</b>             |          |          |        |                      |
| <b>Petition:</b>                         |          |          |        |                      |
| <b>Patent-Appeals-and-Interference:</b>  |          |          |        |                      |
| <b>Post-Allowance-and-Post-Issuance:</b> |          |          |        |                      |
| <b>Extension-of-Time:</b>                |          |          |        |                      |
| Extension - 2 months with \$0 paid       | 1252     | 1        | 490    | 490                  |

| Description              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>    |          |          |        |                      |
| <b>Total in USD (\$)</b> |          |          |        | <b>490</b>           |

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| <b>EFS ID:</b>                              | 8114269  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Patrick Daniel Muir                                  |
| <b>Filer Authorized By:</b>                 |  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 29-JUL-2010  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 11:58:04   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

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| Authorized User                          | MUIR,PATRICK D. |

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| Document Description                             | Start | End |
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| Amendment After Final                            | 1     | 1   |
| Claims   | 2     | 9   |
| Applicant Arguments/Remarks Made in an Amendment | 10    | 13  |

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**Information:**

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

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|--|---|----------------------------------|------------------------------------|--|---|---|---------------------------------------|---------------------|----------|-----------------|---------------------|---------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875  |   |                                  |                                    |  | Application or Docket Number<br><b>11/098,385</b> | Filing Date<br><b>04/05/2005</b>                | <input type="checkbox"/> To be Mailed |                     |          |                 |                     |                     |
| <b>APPLICATION AS FILED – PART I</b>   |   |                                  |                                    |  | OTHER THAN  |   |                                       |                     |          |                 |                     |                     |
| (Column 1)   |   | (Column 2)                       |                                    | SMALL ENTITY <input checked="" type="checkbox"/> |   | OR  |                                       | SMALL ENTITY        |          |                 |                     |                     |
| FOR  | NUMBER FILED  | NUMBER EXTRA                     |                                    | RATE (\$)  | FEE (\$)  |   |                                       | RATE (\$)           | FEE (\$) |                 |                     |                     |
| <input type="checkbox"/> BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>   | N/A   | N/A                              |                                    | N/A  |   |   |                                       | N/A                 |          |                 |                     |                     |
| <input type="checkbox"/> SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>  | N/A   | N/A                              |                                    | N/A  |   |   |                                       | N/A                 |          |                 |                     |                     |
| <input type="checkbox"/> EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>   | N/A   | N/A                              |                                    | N/A  |   |   |                                       | N/A                 |          |                 |                     |                     |
| TOTAL CLAIMS<br><small>(37 CFR 1.16(i))</small>  | minus 20 =  |                                  | *                                  | X \$ =   |   | OR  |                                       | X \$ =              |          |                 |                     |                     |
| INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>  | minus 3 =   |                                  | *                                  | X \$ =   |   |   |                                       | X \$ =              |          |                 |                     |                     |
| <input type="checkbox"/> APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>   | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>  |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <small>* If the difference in column 1 is less than zero, enter "0" in column 2.</small>   |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <b>APPLICATION AS AMENDED – PART II</b>  |   |                                  |                                    |  | OTHER THAN  |   |                                       |                     |          |                 |                     |                     |
| (Column 1)   |   | (Column 2)                       |                                    | (Column 3)                                       |   | SMALL ENTITY                                    |                                       | OR                  |          | SMALL ENTITY    |                     |                     |
| AMENDMENT  | CLAIMS REMAINING AFTER AMENDMENT  |                                  | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA                                    |   | RATE (\$)                                       | ADDITIONAL FEE (\$)                   |                     |          | RATE (\$)       | ADDITIONAL FEE (\$) |                     |
|  | Total <small>(37 CFR 1.16(i))</small>   | *                                | Minus                              | **   | =   | X \$ =  |                                       | OR                  |          | X \$ =          |                     |                     |
|  | Independent <small>(37 CFR 1.16(h))</small>   | *                                | Minus                              | ***  | =   | X \$ =  |                                       | OR                  |          | X \$ =          |                     |                     |
|  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
|  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| (Column 1)   |   | (Column 2)                       |                                    | (Column 3)                                       |   | TOTAL ADD'L FEE                                 |                                       | OR                  |          | TOTAL ADD'L FEE |                     |                     |
| AMENDMENT  | <b>07/29/2010</b>   | CLAIMS REMAINING AFTER AMENDMENT |                                    | HIGHEST NUMBER PREVIOUSLY PAID FOR               | PRESENT EXTRA                                     |   | RATE (\$)                             | ADDITIONAL FEE (\$) |          |                 | RATE (\$)           | ADDITIONAL FEE (\$) |
|  | Total <small>(37 CFR 1.16(i))</small>   | * 22                             | Minus                              | ** 27  | = 0   |   | X \$26 =                              | 0                   | OR       |                 | X \$ =              |                     |
|  | Independent <small>(37 CFR 1.16(h))</small>   | * 5                              | Minus                              | *** 3  | = 2   |   | X \$110 =                             | 220                 | OR       |                 | X \$ =              |                     |
|  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
|  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| (Column 1)   |   | (Column 2)                       |                                    | (Column 3)                                       |   | TOTAL ADD'L FEE                                 | <b>220</b>                            | OR                  |          | TOTAL ADD'L FEE |                     |                     |
| <small>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</small>   |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <small>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</small>                                       |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <small>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</small>  |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
| <small>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</small> |   |                                  |                                    |  |   |   |                                       |                     |          |                 |                     |                     |
|  |   |                                  |                                    |  |   | Legal Instrument Examiner:<br>/THERESA LINDSAY/ |                                       |                     |          |                 |                     |                     |

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**  
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Document code: WFEE

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01 FC : 2201 220.00 DA





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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 11/098,385   | 04/05/2005  | Peter L. Venetianer  | OV-103(215811 US)   | 8277             |
| 74712                      7590                      07/27/2010<br>MUIR PATENT CONSULTING, PLLC<br>9913 Georgetown Pike, Suite 200<br>P.O. Box 1213<br>GREAT FALLS, VA 22066 |             |                      | EXAMINER            |                  |
|  |             |                      | VO, TUNG T          |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2621                |                  |
|  |             |                      | MAIL DATE           | DELIVERY MODE    |
|  |             |                      | 07/27/2010          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                          |                                      |  |  |
|--------------------------|--------------------------------------|--|--|
| <b>Interview Summary</b> | <b>Application No.</b><br>11/098,385 | <b>Applicant(s)</b><br>VENETIANER ET AL. |  |
|                          | <b>Examiner</b><br>Tung Vo           | <b>Art Unit</b><br>2621                  |  |

All participants (applicant, applicant's representative, PTO personnel):

(1) Tung Vo. (3) Patrick D. Muir.

(2) Peter Venetianer. (4) \_\_\_\_\_.

Date of Interview: 22 July 2010.

Type: a)  Telephonic b)  Video Conference  
c)  Personal [copy given to: 1)  applicant 2)  applicant's representative]

Exhibit shown or demonstration conducted: d)  Yes e)  No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 27 and 30.

Identification of prior art discussed: Prior art of record.

Agreement with respect to the claims f)  was reached. g)  was not reached. h)  N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Amendments to claim 27 by incorporated claim 30 and an action taken response to the detected event.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

|  |  |
|--|--|
| /Tung Vo/<br>Primary Examiner, Art Unit 2621 |  |
|--|--|

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

|  |   |    |   |                               |                     |
|--|---|----|---|-------------------------------|---------------------|
| IDS Form PTO/SB/08: Substitute for form 1449A/PTO  |   |    |   | <b>Complete if Known</b>      |                     |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    |   | <i>Application Number</i>     | 11/098,385          |
|  |   |    |   | <i>Filing Date</i>            | April 5, 2005       |
|  |   |    |   | <i>First Named Inventor</i>   | Peter L. Venetianer |
|  |   |    |   | <i>Art Unit</i>               | 2621                |
|  |   |    |   | <i>Examiner Name</i>          | Tung Vo             |
| Sheet  | 1 | of | 1 | <i>Attorney Docket Number</i> | OV-103              |

| <b>U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS</b> |                          |   |  |  |   |
|--|--------------------------|---|--|--|---|
| Examiner<br>Initials                                       | Cite<br>No. <sup>1</sup> | Document Number                                 | Issue or<br>Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|  |                          | Number-Kind Code <sup>2</sup> <i>(if known)</i> |  |  |   |
|  | 1                        | US-2003/0043160 A1                              | 03-06-2003                                 | Elfving, et al.                                    |   |
|  | 2                        | US-2003/0085992 A1                              | 05-08-2003                                 | Arpa, et al.                                       |   |
|  |                          |   |  |  |   |
|  |                          |   |  |  |   |
|  |                          |   |  |  |   |
|  |                          |   |  |  |   |
|  |                          |   |  |  |   |
|  |                          |   |  |  |   |

**Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.**

| <b>FOREIGN PATENT DOCUMENTS</b> |                          |  |                                |  |  |                          |
|---------------------------------|--------------------------|--|--------------------------------|--|--|--------------------------|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear | Translation <sup>6</sup> |
|                                 |                          | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> <i>(if known)</i> |                                |  |  |                          |
|                                 | 1                        | WO-2004/006184 A2  | 01-15-2004                     | Talmon Gad, et al.                                 |  |                          |
|                                 | 2                        | WO-03/044727 A1  | 05-30-2003                     | Diamondback Vision Inc.                            |  |                          |
|                                 | 3                        | EP-0967584 A2  | 12-29-1999                     | Texas Instruments Inc.                             |  |                          |
|                                 |                          |  |                                |  |  |                          |

| <b>NONPATENT LITERATURE DOCUMENTS</b> |                          |   |                          |
|---------------------------------------|--------------------------|---|--------------------------|
| Examiner<br>Initials                  | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Translation <sup>6</sup> |
|                                       |                          |   |                          |
|                                       |                          |   |                          |
|                                       |                          |   |                          |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO Notes regarding this form:

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Electronic Patent Application Fee Transmittal

|   |  |
|---|--|
| <b>Application Number:</b>                  | 11098385   |
| <b>Filing Date:</b>                         | 05-Apr-2005  |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Filer:</b>                               | Bradley E. Edelman                                   |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |

Filed as Large Entity

### Utility under 35 USC 111(a) Filing Fees

| Description                              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| <b>Basic Filing:</b>                     |          |          |        |                      |
| <b>Pages:</b>                            |          |          |        |                      |
| <b>Claims:</b>                           |          |          |        |                      |
| <b>Miscellaneous-Filing:</b>             |          |          |        |                      |
| <b>Petition:</b>                         |          |          |        |                      |
| <b>Patent-Appeals-and-Interference:</b>  |          |          |        |                      |
| <b>Post-Allowance-and-Post-Issuance:</b> |          |          |        |                      |
| <b>Extension-of-Time:</b>                |          |          |        |                      |

| Description                             | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>                   |          |          |        |                      |
| Submission- Information Disclosure Stmt | 1806     | 1        | 180    | 180                  |
| <b>Total in USD (\$)</b>                |          |          |        | <b>180</b>           |

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 7740376  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Bradley E. Edelman                                   |
| <b>Filer Authorized By:</b>                 |  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 03-JUN-2010  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 15:57:29   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|   |                 |
|---|-----------------|
| Submitted with Payment  | yes             |
| Payment Type  | Deposit Account |
| Payment was successfully received in RAM  | \$ 180          |
| RAM confirmation Number   | 2418            |
| Deposit Account   | 504574          |
| Authorized User   |                 |
| <p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <ul style="list-style-type: none"> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</li> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</li> </ul> |                 |



| <b>File Listing:</b>                            |   |                            |   |                         |                         |
|---|---|----------------------------|---|-------------------------|-------------------------|
| <b>Document Number</b>                          | <b>Document Description</b>                             | <b>File Name</b>           | <b>File Size(Bytes)/<br/>Message Digest</b>         | <b>Multi Part /.zip</b> | <b>Pages (if appl.)</b> |
| 1   | Transmittal Letter                                      | OV_103_IDS_transmittal.pdf | 63966<br>f8043a4c762757d198c76882552f14aa0d26e7e6   | no                      | 2                       |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| 2   | Information Disclosure Statement (IDS)<br>Filed (SB/08) | OV_103_IDS.pdf             | 88178<br>02d4149919a5c01be945e7559cd0b9e88e29861c   | no                      | 2                       |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| This is not an USPTO supplied IDS fillable form |   |                            |   |                         |                         |
| 3   | Foreign Reference                                       | EP0967584A2.pdf            | 2191858<br>e826943c2b33a1c655727020b494a62a48e8a157 | no                      | 33                      |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| 4   | Foreign Reference                                       | WO03044727A1.pdf           | 2244009<br>4218d4c1c435e8fb867cc0052f156e0c8bee4f85 | no                      | 36                      |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| 5   | Foreign Reference                                       | WO2004006184A2.pdf         | 3482192<br>7ba406b3eb762ebf221e1be959631adf784d3962 | no                      | 32                      |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| 6   | Fee Worksheet (PTO-875)                                 | fee-info.pdf               | 29975<br>93704a714cd82e1978de52f77dcb6d798cd89588   | no                      | 2                       |
| <b>Warnings:</b>                                |   |                            |   |                         |                         |
| <b>Information:</b>                             |   |                            |   |                         |                         |
| <b>Total Files Size (in bytes):</b>             |   |                            | 8100178   |                         |                         |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of: Peter L. Venetianer                      Attorney Docket No.: OV-103  
Serial No.:                      11/098,385                      Group Art Unit:                      2621  
Filed:                      April 5, 2005                      Examiner:                      Tung Vo  
Confirmation No.:                      8277

Title:    **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES**

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(d)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

Pursuant to 37 C.F.R. 1.56 and 1.97(d), Applicant brings to the attention of the Examiner the listed documents on the attached SB/08 Form. Copies of the listed foreign patent documents are submitted herewith.

Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in counterpart foreign application No. EP 06 74 9276 not more than three months prior to the filing of this information disclosure statement. The fee as required under 37 C.F.R. 1.97(d) is being submitted electronically herewith.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the U.S. Patent and Trademark Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In the event any fees are required in connection with this paper, please charge the Deposit Account No. 50-4574.

Respectfully submitted,

/Bradley Edelman/, Reg. No. 57,648

Bradley Edelman  
Registration No. 57,648

Tel: (703) 757-7880

MUIR PATENT CONSULTING, PLLC.  
9913 Georgetown Pike, Suite 200  
Great Falls, VA 22066  
Fax: (703) 757-7447

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 7741042  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Bradley E. Edelman                                   |
| <b>Filer Authorized By:</b>                 |  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 03-JUN-2010  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 16:31:31   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name                              | File Size(Bytes)/<br>Message Digest                               | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|--|---|------------------|------------------|
| 1               | Transmittal Letter   | SearchReport_20100510_0674<br>9276.pdf | 190148<br><small>f4691dbd01f0bf44afcb231294d8d102729e8a5f</small> | no               | 5                |

### Warnings:

### Information:

Total Files Size (in bytes):

190148

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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| APPLICATION NO.              | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------|-------------|----------------------|---------------------|------------------|
| 11/098,385                   | 04/05/2005  | Peter L. Venetianer  | OV-103(215811 US)   | 8277             |
| 74712                        | 7590        | 03/22/2010           | EXAMINER            |                  |
| MUIR PATENT CONSULTING, PLLC |             |                      | VO, TUNG T          |                  |
| 758 WALKER RD                |             |                      | ART UNIT            | PAPER NUMBER     |
| SUITE C                      |             |                      | 2621                |                  |
| GREAT FALLS, VA 22066        |             |                      | MAIL DATE           | DELIVERY MODE    |
|                              |             |                      | 03/22/2010          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |  |  |
|------------------------------|--------------------------------------|--|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>11/098,385 | <b>Applicant(s)</b><br>VENETIANER ET AL. |  |
|                              | <b>Examiner</b><br>Tung Vo           | <b>Art Unit</b><br>2621                  |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 22 December 2009.
- 2a)  This action is **FINAL**.                                2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 27-53 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 27-53 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on 05 April 2005 is/are: a)  accepted or b)  objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some \*    c)  None of:
    - 1.  Certified copies of the priority documents have been received.
    - 2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    - 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 09/30/2009.
- 4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_.
- 5)  Notice of Informal Patent Application
- 6)  Other: \_\_\_\_\_.



**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 27-53 are rejected under 35 U.S.C. 102(e) as being anticipated by Brown et al. (US 7,447,331).

Re claim 27, Brown discloses a video system (fig. 1) comprising:

a first processor (104 of fig. 1) which analyzes a video to determine attributes of objects detected in the video (figs. 4 and 8), the first processor being in communication with a first communications link (102 of fig. 1) to transfer the determined attributes (880 of fig. 8) over the communications link; and

a second processor (108 of fig. 1, fig. 9), separate from the first processor, in communication (102 of fig. 1) with the first communications link to receive the determined attributes transferred from the first processor over the first communications link (910 of fig. 9), which determines a first event (950-970 of fig. 9) that is not one of the determined attributes by analyzing a combination of the received determined attributes (970 of fig. 9) wherein the first processor determines attributes (e.g. 850 and 860 of fig. 8) independent of a selection of the first event by the second processor.

Re claims 28, Brown further discloses wherein the first communications link comprises a network (102 of fig. 1).

Re claim 29, Brown further discloses wherein the second processor determines the first event by analyzing only the attributes transferred by the communications link (102 of fig. 1, see also fig. 9).

Re claim 30, Brown further discloses wherein the second processor determines the first event without reprocessing the video (fig. 9).

Re claim 31, Brown further discloses wherein the second processor analyzes the attributes to detect the first event in real time (e.g. cameras 150-154 of fig. 1 are real time).

Re claim 32, Brown further discloses a third processor (e.g. 112 of fig. 1), separate from the first processor and second processor, in communication with the first processor over a second

Art Unit: 2621

communications link (102 and 106 of fig. 1), the third processor (112 of fig. 1) configured to determine a second event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the second communications link (fig. 9), wherein the second processor (108 of fig. 1) determines the first event independent from the determination of the second event by the third processor and the third processor (112 of fig. 1) determines the second event independent from the determination of the first event by the second processor (fig. 9).

Re claim 33, Brown further discloses a video system (fig. 1), comprising: an input in communication with a communications channel (102 and 108 of fig. 1); a processor (108 of fig. 1) configured to receive from the input a stream of detected attributes (fig. 8, the viewable video index includes the stream of detected attributes) received over the communications channel (102 of fig. 1), the attributes being attributes of one or more objects detected in a video (Note Brown discloses that The viewable video index contains a visual representation of moving objects in the video data, a visual representation of the background of the video capture area, i.e. the scene, a representation of the object trajectory, a representation of the object attributes, and a representation of detected events), the processor (108 of fig. 1) configured to determine an event (the moving objects are updated by the step 970 of figure 9) that is not one of the detected attributes by analyzing a combination of the received attributes (moving objects are combined based on the viewable video index), wherein the attributes received over the communications channel are independent of the event to be determined by the processor (fig. 9).

Re claim 34, Brown further discloses wherein the communications channel comprises a network (102 of fig. 1).

Re claim 35, Brown further discloses wherein the processor (108 of fig. 1) is operable to determine an event (moving objects are updated, step 970 of fig. 9) by analyzing only attributes (using the viewable video index that comprises a representation of the object attributes) of the received stream of attributes.

Re claim 36, Brown further discloses wherein the processor (using the viewable video index that comprises a representation of the object attributes) is operable to determine an event without reprocessing the video (fig. 9).

Re claim 37, Brown further discloses a method of detecting an event from a video (fig. 1), comprising: receiving a stream of detected attributes over a communications channel (108 and 102 of fig. 1), the detected attributes representing attributes of an object detected in a video (fig. 8, note the viewable video index comprises a representation of the object attributes);

performing an analysis of a combination of the detected attributes to detect an event (fig. 9, step 970 performs combine moving objects) that is not one of the detected attributes, wherein the detected attributes received in the stream of attributes are independent of a selection of the event to be detected (fig. 9).

Re claim 38, Brown further discloses wherein the communications channel comprises a network (102 of fig. 1).

Re claim 39, Brown further discloses wherein the analysis performed to detect an event determines an event by analyzing only attributes received in the stream of detected attributes (the viewable video index is used for detecting moving objects, 970 of fig. 9).

Re claim 40, Brown further discloses wherein the analysis performed to detect an event determines an event without reprocessing the video (108 of fig. 1, and fig. 9).

Re claim 41, Brown further discloses a method (fig. 8 and 9) comprising: analyzing a video to detect an object (810-850 of fig. 8); creating a stream of attributes at a first location (104 of fig. 1) by determining attributes of the detected object by analyzing the video (860 of fig. 8); transmitting (880 of fig. 1) the stream of attributes to a second location (108 of fig. 1) removed from the first location for subsequent analysis, wherein the stream of attributes are transmitted to the second location over a communications channel (102 of fig. 1), and wherein the stream of attributes is sufficient to allow the subsequent analysis to detect an event of the video, the event not being one of the determined attributes (fig. 9).

Re claim 42, Brown further discloses obtaining the video with a video capture apparatus (152, 154, and 156).

Re claim 43, Brown further discloses wherein the communications channel comprises a network (102 of fig. 1).

Re claim 44, Brown further discloses wherein the attributes of the stream of attributes are created independently of the subsequent analysis (fig. 9).

Re claim 45, Brown further discloses wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes by analyzing a combination of the attributes (fig. 9, step 970).

Re claim 46, Brown further discloses wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video (950-970 of fig. 9).

Re claim 47, Brown further discloses wherein the stream of attributes is transmitted over a communications channel (102 of fig. 1) without detection of an event at the first location (104 of fig. 1, see also fig. 8).

Re claim 48, Brown further discloses a video device (fig. 1), comprising: a processor (104 of fig. 1) which analyzes a video to detect an object and to determine attributes of the object detected in the video (fig. 8); an output (880 of fig. 8) configured to transmit the attributes determined by the processor over a communications link (102 of fig. 1), wherein the output is configured to transmit the attributes to a second location (880 of fig. 8, note transmitting the viewable video index to the client device, 108 of fig. 1) removed from the processor (104 of fig. 1) for a subsequent analysis of a combination of the attributes at the second location (108 of fig. 8, see also fig. 9), wherein the processor (108 of fig. 1) determines attributes independently of a subsequent analysis of a combination of attributes to determine an event (fig. 9, step 970 performs the event detection, e.g. moving objects are updated using the viewable video index) that is not one of the determined attributes, and wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes by analyzing the combination of the attributes (fig. 9).

Re claim 49, Brown further discloses further comprising: a video capture apparatus to provide the video to the processor (150, 152, and 154 of fig. 1, video camera).

Re claim 50, Brown further discloses wherein the output transmits a stream of the detected attributes over the communications link (102 of fig. 1).

Re claim 51, Brown further discloses wherein the communications link comprises a network (102 of fig. 1).

Re claim 52, Brown further discloses wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video (108 of fig. 1).

Re claim 53, Brown further discloses wherein the attributes are transmitted over the communications channel without detection of an event by the processor (108 of fig. 1, fig. 9).

### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### *Contact Information*

Art Unit: 2621

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Wednesday, Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/  
Primary Examiner, Art Unit 2621



|                                   |                                       |  |             |
|-----------------------------------|---------------------------------------|--|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>11/098,385 | Applicant(s)/Patent Under Reexamination<br>VENETIANER ET AL. |             |
|                                   | Examiner<br>Tung Vo                   | Art Unit<br>2621   | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name             | Classification |
|---|--|-----------------|------------------|----------------|
| * | A US-5,850,352 A                                 | 12-1998         | Moezzi et al.    | 345/419        |
| * | B US-5,912,980 A                                 | 06-1999         | Hunke, H. Martin | 382/103        |
| * | C US-6,025,877 A                                 | 02-2000         | Chang et al.     | 375/240.01     |
| * | D US-6,097,429 A                                 | 08-2000         | Seeley et al.    | 348/154        |
| * | E US-6,360,234 B2                                | 03-2002         | Jain et al.      | 715/201        |
| * | F US-6,721,454 B1                                | 04-2004         | Qian et al.      | 382/224        |
| * | G US-7,447,331 B2                                | 11-2008         | Brown et al.     | 382/103        |
| * | H US-7,660,439 B1                                | 02-2010         | Lu et al.        | 382/107        |
|   | I US-  |                 |                  |                |
|   | J US-  |                 |                  |                |
|   | K US-  |                 |                  |                |
|   | L US-  |                 |                  |                |
|   | M US-  |                 |                  |                |

**FOREIGN PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|--|-----------------|---------|------|----------------|
|   | N  |                 |         |      |                |
|   | O  |                 |         |      |                |
|   | P  |                 |         |      |                |
|   | Q  |                 |         |      |                |
|   | R  |                 |         |      |                |
|   | S  |                 |         |      |                |
|   | T  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|
| U |   |
| V |   |
| W |   |
| X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 3409 | attributes same object\$1<br>same video  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/03/05<br>18:43 |
| L2    | 9252 | event same detect\$4 same<br>video   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/03/05<br>18:43 |
| L3    | 7477 | extract\$4 same object\$4<br>same video  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/03/05<br>18:43 |
| L4    | 113  | 1 and 2 and 3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/03/05<br>18:43 |
| S1    | 1    | ("5109414").PN.  | USPAT; USOCR  | OR               | OFF     | 2006/04/12<br>13:46 |
| S2    | 5    | probabilit\$4 same averag<br>\$4 same yuv same (encod<br>\$4 or compress\$4 or cod<br>\$4) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND              | ON      | 2006/03/15<br>16:09 |
| S3    | 3    | probabilit\$4 same index\$4<br>same yuv same (encod\$4<br>or compress\$4 or cod\$4)        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND              | ON      | 2006/03/15<br>16:08 |
| S4    | 114  | index\$4 same yuv same<br>(encod\$4 or compress\$4<br>or cod\$4)                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND              | ON      | 2006/03/15<br>16:08 |
| S5    | 8    | probabilit\$4 same yuv<br>same (encod\$4 or<br>compress\$4 or cod\$4)                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND              | ON      | 2006/03/15<br>16:09 |

|     |        |   |   |     |    |                  |
|-----|--------|---|---|-----|----|------------------|
| S6  | 95     | averag\$4 same yuv same (encod\$4 or compress\$4 or cod\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/03/15 16:09 |
| S7  | 23     | probabilit\$4 same yuv                                      | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/03/15 16:09 |
| S8  | 211212 | probabilit\$4   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/03/15 16:09 |
| S9  | 1      | S4 and S6 and S8  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/03/15 16:09 |
| S10 | 33     | S6 and S8   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/03/15 16:09 |
| S11 | 11326  | screw same (machin\$4 or device\$4) same table\$4           | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/12 14:21 |
| S12 | 6263   | camera\$4 same detect\$4 same edge\$4                       | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/12 14:22 |
| S13 | 19     | S11 and S12   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/12 13:51 |
| S14 | 2212   | (encod\$4 or compress\$4 or coding) same different same DCT | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/12 13:52 |
| S15 | 68808  | "375"/\$6   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/12 13:52 |

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|-----|------|---|---|-----|----|---------------------|
| S16 | 902  | S14 and S15   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>13:52 |
| S17 | 827  | (encod\$4 or compress\$4<br>or coding) same different<br>same DCT same video              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>13:53 |
| S18 | 430  | S15 and S17   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>13:52 |
| S19 | 70   | (encod\$4 or compress\$4<br>or coding) same different<br>same (DCT with compar<br>\$6)    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:08 |
| S20 | 19   | (encod\$4 or compress\$4<br>or coding) same different<br>same (DCT\$1 with adjust<br>\$4) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:09 |
| S21 | 70   | screw same inspect\$4<br>same reject\$6   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:23 |
| S22 | 751  | camera\$4 same detect\$4<br>same screw\$4   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:24 |
| S23 | 2    | S21 and S22   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:22 |
| S24 | 6718 | screw same inspect\$4   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:23 |
| S25 | 50   | S22 and S24   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/04/12<br>14:23 |

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|-----|----|---|---|-----|-----|------------------|
| S26 | 16 | camera\$4 same detect\$4 same screw\$4 same passing same through  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/04/12 14:25 |
| S27 | 41 | camera\$4 same detect\$4 same screw\$4 same compar\$6   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/04/12 14:28 |
| S28 | 76 | camera\$4 same (determin\$4 or detect\$4) same screw\$4 same thread   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/04/12 14:30 |
| S30 | 28 | splic\$6 same control\$6 same (decod\$4 or decompress\$4) same (re-cod\$4 or re-encod\$4 or re-compress\$4 or (re adj (cod\$4 or compress\$4 or encod\$4)))   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 07:49 |
| S31 | 4  | ((("5982436") or ("6137834") or ("6025878") or ("5602592")).PN.   | USPAT; USOCR                                | OR  | OFF | 2006/06/20 07:38 |
| S32 | 1  | (splic\$6 and control\$6 and (decod\$4 or decompress\$4) and (re-cod\$4 or re-encod\$4 or re-compress\$4 or (re adj (cod\$4 or compress\$4 or encod\$4))) and determin\$6 and amount and bit\$6).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 09:28 |
| S33 | 1  | yoshimari.in.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 07:45 |
| S34 | 0  | hiromi with yoshimari   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 07:45 |
| S35 | 0  | hiromi and yoshimari  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 07:45 |
| S36 | 0  | hiromi with yohinari  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2006/06/20 07:46 |

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|-----|--------|---|---|-----|----|---------------------|
| S37 | 0      | yohinari  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>07:45 |
| S38 | 10216  | yoshinari   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>07:45 |
| S39 | 34847  | hiromi  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>07:46 |
| S40 | 37     | S38 same S39  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>07:48 |
| S41 | 424    | seamless\$4 same splic\$6   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>07:48 |
| S42 | 62     | splic\$6 same (decod\$4 or decompress\$4) same (re-cod\$4 or re-encod\$4 or re-compress\$4 or (re adj (cod \$4 or compress\$4 or encod \$4))) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>09:28 |
| S43 | 24     | S41 and S42   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>09:27 |
| S44 | 237    | splic\$6 same (decoded or decompressed)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>09:28 |
| S45 | 82     | splic\$6 same (re-cod\$4 or re-encod\$4 or re-compress \$4 or (re adj (cod\$4 or compress\$4 or encod\$4)))                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>09:28 |
| S46 | 161815 | (determin\$6 or calculat\$4) same (encoded or coded or compressed)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/06/20<br>09:32 |

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| S47 | 34    | S44 and S45 and S46  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/20<br>10:10 |
| S48 | 2     | ((("20050125119") or<br>("20050271184")).PN.   | US-PGPUB;<br>USPAT; USOCR                               | OR  | OFF | 2006/06/20<br>10:10 |
| S49 | 2     | ("3294342").PN.  | USPAT; USOCR  | OR  | OFF | 2006/06/22<br>17:57 |
| S50 | 106   | highlight\$6 same I same<br>video same (picture or<br>frame or image)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>18:00 |
| S51 | 18238 | scene same chang\$6  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>17:58 |
| S52 | 24    | S50 and S51  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>17:58 |
| S53 | 21180 | highlight\$6 same (picture<br>or frame or image)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>18:00 |
| S54 | 2932  | highlight\$6 same video<br>same (picture or frame or<br>image)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>18:00 |
| S55 | 50    | S51 same S54   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/06/22<br>18:00 |
| S56 | 6     | (decompress or decode\$4)<br>same (scene with change)<br>same (multiple or plurality)<br>same display\$4 same (lcd<br>or devices or units) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2008/10/06<br>17:17 |
| S57 | 28    | detect\$4 same (scene with<br>change) same (multiple or<br>plurality) same (display\$4<br>with (monitors or crt or<br>devices or units))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2008/10/06<br>17:27 |



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|-----|--------|--|---|-----|----|---------------------|
| S58 | 192    | detect\$4 same (scene with change) same (display\$4 with (monitors or devices or units))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2008/10/06<br>17:31 |
| S59 | 2      | security same (scene with change) same (display\$4 with (monitors or devices or units))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2008/10/06<br>17:41 |
| S60 | 568    | (scene with change) same (display\$4 with (monitors or devices or units))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2008/10/06<br>17:42 |
| S61 | 83     | (scene with change) same (display\$4 with (monitors or devices or units)) same (plurality or multiple)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2008/10/06<br>17:42 |
| S62 | 85     | ("5101364"   "5107343"   "5109482"   "5179449"   "5189630"   "5191645"   "5206929"   "5237648"   "5321396"   "5388197"   "5404316").PN. OR ("5537528").URPN. | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/06<br>17:57 |
| S63 | 77     | "5537528"  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>06:51 |
| S64 | 101558 | television same receiv\$4  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>06:59 |
| S65 | 5586   | detect\$4 same scene same change   | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>06:59 |
| S66 | 10165  | (pip or (picture in picture)) same first same second same (display\$4 or monitors or lcds)   | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:00 |
| S67 | 2264   | S64 and S66  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:00 |
| S68 | 129    | S64 and S65 and S66  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:00 |
| S69 | 15921  | television same receiv\$4 same (decod\$4 or decompress\$4)   | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:01 |
| S70 | 94     | S69 and S65 and S66  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:01 |
| S71 | 402    | detect\$4 same scene same change same (decod\$4 or decompress\$4)  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:05 |
| S72 | 373019 | first same second same (display\$4 or monitors or lcds)  | US-PGPUB;<br>USPAT; USOCR                               | AND | ON | 2008/10/07<br>07:05 |

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| S73 | 123 | S71 and S72   | US-PGPUB;<br>USPAT; USOCR   | AND | ON | 2008/10/07<br>07:05 |
| S74 | 17  | S71 same S72  | US-PGPUB;<br>USPAT; USOCR   | AND | ON | 2008/10/07<br>07:05 |
| S75 | 19  | "6204887"   | US-PGPUB;<br>USPAT; USOCR   | AND | ON | 2008/10/07<br>07:07 |
| S76 | 12  | complexity same current<br>same decoded same<br>picture same encoded  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:22 |
| S77 | 43  | (estimat\$4 or determin\$4)<br>same complexity same<br>current same (decoded<br>with (pictures or frames or<br>images))             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:25 |
| S78 | 102 | (transcod\$4 or (re adj<br>(encod\$4 or compress<br>\$4))) same complexity<br>same current (pictures or<br>frames or images)        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:26 |
| S79 | 4   | S77 and S78   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:26 |
| S80 | 27  | (estimat\$4 or determin\$4)<br>same complexity same<br>(current with decoded with<br>(pictures or frames or<br>images))             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:30 |
| S81 | 53  | (transcod\$4 or (re adj<br>(encod\$4 or compress<br>\$4))) same complexity<br>same (current with<br>(picture or frame or<br>image)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:30 |
| S82 | 2   | S80 and S81   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:30 |

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| S83 | 23   | (transcod\$4 or (re adj (encod\$4 or compress \$4))) same complexity same (complexity with current with (picture or frame or image)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>08:32 |
| S84 | 10   | "6915018"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>09:08 |
| S85 | 704  | look same ahead same complex\$6  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>09:11 |
| S86 | 52   | look same ahead same complex\$6 same estimat\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/11/10<br>09:11 |
| S87 | 0    | JVT same weight same foctor same offset  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/16<br>15:42 |
| S88 | 3    | JVT same weight same factor same offset  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/16<br>15:43 |
| S89 | 1319 | weight same factor same offset   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/16<br>15:43 |
| S90 | 3    | JVT same weight same factor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/16<br>15:43 |
| S91 | 244  | motion same (compensat \$4 or predict\$4) same weight same factor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/17<br>06:06 |
| S92 | 1627 | motion same (compensat \$4 or predict\$4) same luminance same ((color with differences) or chrominance)                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON | 2009/12/17<br>06:06 |

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| S93  | 3187   | motion same (compensat\$4 or predict\$4) same offset   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:06 |
| S94  | 25     | S91 and S92 and S93  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:07 |
| S95  | 24859  | adding same (multipli\$4 or multiply\$4) same (offset or value or (predetermined with number) or number) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:13 |
| S96  | 0      | S91 and S92 and S95  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:13 |
| S97  | 9      | S91 and S95  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:14 |
| S98  | 40952  | adding same (multipli\$4 or multiply\$4)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:14 |
| S99  | 1      | S91 and S92 and S98  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:14 |
| S100 | 230076 | weight\$4 same factor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:15 |
| S101 | 50     | S92 and S98 and S100   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2009/12/17<br>06:15 |
| S102 | 2      | ("6415056").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2009/12/17<br>07:39 |
| S103 | 4      | ("5592228").PN. OR ("6415056").URPN.   | US-PGPUB;<br>USPAT; USOCR   | AND | ON  | 2009/12/17<br>09:27 |

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| S104 | 7  | "6415056"   | US-PGPUB;<br>USPAT; USOCR   | AND | ON  | 2009/12/17<br>09:32 |
| S105 | 1  | "11879403"  | US-PGPUB;<br>USPAT; USOCR   | AND | ON  | 2009/12/17<br>13:19 |
| S106 | 12 | select\$4 same quanti\$4<br>same scale same (re adj<br>(encod\$4 or compress\$4)) | US-PGPUB;<br>USPAT; USOCR   | AND | ON  | 2009/12/17<br>14:41 |
| S107 | 12 | select\$4 same quanti\$4<br>same scale same (re adj<br>(encod\$4 or compress\$4)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/12/17<br>14:41 |
| S108 | 99 | select\$4 same quanti\$4<br>same (re adj (encod\$4 or<br>compress\$4))            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/12/17<br>14:42 |
| S109 | 2  | "20060117356"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | AND | ON  | 2010/03/05<br>11:23 |
| S110 | 13 | ((("6546135") or<br>("6408293") or<br>("6721454") or<br>("7308443")).PN.          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2010/03/05<br>11:24 |
| S111 | 2  | "20020159627"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/03/05<br>11:33 |
| S112 | 2  | "20020157116"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/03/05<br>11:33 |
| S113 | 3  | "20020112171"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/03/05<br>11:33 |

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| S114 | 3   | "20020048369"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:34 |
| S115 | 2   | "20020045988"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:34 |
| S116 | 2   | "20010012379"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:34 |
| S117 | 115 | attribute\$4 same event<br>same rule\$4 same remot<br>\$4                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:56 |
| S118 | 0   | attribute\$4 same event<br>same rule\$4 same remot<br>\$4 ame video              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:57 |
| S119 | 5   | attribute\$4 same event<br>same detect\$4 ame video                              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:57 |
| S120 | 258 | attribute\$4 same event<br>same detect\$4 same video                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:58 |
| S121 | 406 | remot\$4 same (processor<br>or computer) same event<br>same detect\$4 same video | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:59 |
| S122 | 32  | S120 and S121  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>11:59 |


|      |    |  |   |     |    |                     |
|------|----|--|---|-----|----|---------------------|
| S123 | 77 | attributes same object\$1<br>same event same detect\$4<br>same video | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>12:01 |
| S124 | 5  | "11098385"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/03/05<br>12:12 |

**EAST Search History (Interference)**

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**3/ 5/ 2010 6:48:16 PM**

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(Flat Panel).wsp**


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|--|--|---|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br>Tung Vo                 | <b>Art Unit</b><br>2621   |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |  |  |  |  |  |  |  |  |  |
|-------|----------|------------|--|--|--|--|--|--|--|--|--|
| Final | Original | 03/05/2010 |  |  |  |  |  |  |  |  |  |
|       | 1        |            |  |  |  |  |  |  |  |  |  |
|       | 2        |            |  |  |  |  |  |  |  |  |  |
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|       | 9        |            |  |  |  |  |  |  |  |  |  |
|       | 10       |            |  |  |  |  |  |  |  |  |  |
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|       | 12       |            |  |  |  |  |  |  |  |  |  |
|       | 13       |            |  |  |  |  |  |  |  |  |  |
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|       | 16       |            |  |  |  |  |  |  |  |  |  |
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|       | 18       |            |  |  |  |  |  |  |  |  |  |
|       | 19       |            |  |  |  |  |  |  |  |  |  |
|       | 20       |            |  |  |  |  |  |  |  |  |  |
|       | 21       |            |  |  |  |  |  |  |  |  |  |
|       | 22       |            |  |  |  |  |  |  |  |  |  |
|       | 23       |            |  |  |  |  |  |  |  |  |  |
|       | 24       |            |  |  |  |  |  |  |  |  |  |
|       | 25       |            |  |  |  |  |  |  |  |  |  |
|       | 26       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 27       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 28       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 29       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 30       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 31       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 32       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 33       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 34       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 35       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 36       | ✓          |  |  |  |  |  |  |  |  |  |




|  |  |   |
|--|--|---|
| <b><i>Index of Claims</i></b><br><br> | <b>Application/Control No.</b><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br>Tung Vo                 | <b>Art Unit</b><br>2621   |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |  |  |  |  |  |  |  |
|-------|----------|------------|--|--|--|--|--|--|--|
| Final | Original | 03/05/2010 |  |  |  |  |  |  |  |
|       | 37       | ✓          |  |  |  |  |  |  |  |
|       | 38       | ✓          |  |  |  |  |  |  |  |
|       | 39       | ✓          |  |  |  |  |  |  |  |
|       | 40       | ✓          |  |  |  |  |  |  |  |
|       | 41       | ✓          |  |  |  |  |  |  |  |
|       | 42       | ✓          |  |  |  |  |  |  |  |
|       | 43       | ✓          |  |  |  |  |  |  |  |
|       | 44       | ✓          |  |  |  |  |  |  |  |
|       | 45       | ✓          |  |  |  |  |  |  |  |
|       | 46       | ✓          |  |  |  |  |  |  |  |
|       | 47       | ✓          |  |  |  |  |  |  |  |
|       | 48       | ✓          |  |  |  |  |  |  |  |
|       | 49       | ✓          |  |  |  |  |  |  |  |
|       | 50       | ✓          |  |  |  |  |  |  |  |
|       | 51       | ✓          |  |  |  |  |  |  |  |
|       | 52       | ✓          |  |  |  |  |  |  |  |
|       | 53       | ✓          |  |  |  |  |  |  |  |

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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br><br>Tung Vo                 | <b>Art Unit</b><br><br>2621   |

| SEARCHED |                                   |           |          |
|----------|-----------------------------------|-----------|----------|
| Class    | Subclass                          | Date      | Examiner |
| 348      | 143, 148, 150, 149, 166, 169, 170 | 3/31/2009 | TV       |
| 382      | 103, 115                          | 3/31/2009 | TV       |
| 375      | 240.02, 240.08                    | 3/31/2009 | TV       |

| SEARCH NOTES |           |          |
|--------------|-----------|----------|
| Search Notes | Date      | Examiner |
| EAST         | 3/31/2009 | TV       |

| INTERFERENCE SEARCH |          |          |          |
|---------------------|----------|----------|----------|
| Class               | Subclass | Date     | Examiner |
| 375                 | 240.18   | 3/5/2010 | TV       |

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Application Serial No. 11/098,385  
Amendment of December 22, 2009

Customer No. 74,712  
Attorney Docket No. OV-103

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of: Venetianer et al.                      Attorney Docket:              OV-103  
Serial Number:                      11/098,385                      Group Art Unit:              2621  
Filed:                                      April 5, 2005                      Examiner:                      Tung Vo  
Confirmation Number:              8277

Title:                      **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES**

AMENDMENT AND INTERVIEW SUMMARY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

This is a response to the Office Action of August 20, 2009. A one month extension of time is filed concurrently with this response. Prior to examination on the merits and calculation of relevant fees, please enter the following amendment.

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claims 1-26 (Cancelled).

27. (New) A video system comprising:

a first processor which analyzes a video to determine attributes of objects detected in the video, the first processor being in communication with a first communications link to transfer the determined attributes over the communications link; and

a second processor, separate from the first processor, in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, which determines a first event that is not one of the determined attributes by analyzing a combination of the received determined attributes

wherein the first processor determines attributes independent of a selection of the first event by the second processor.

28. (New) The video system of claim 27, wherein the first communications link comprises a network.

29. (New) The video system of claim 27, wherein the second processor determines the first event by analyzing only the attributes transferred by the communications link.

30. (New) The video system of claim 27, wherein the second processor determines the first event without reprocessing the video.

31. (New) The video system of claim 27, wherein the second processor analyzes the attributes to detect the first event in real time.

32. (New) The video system of claim 27, further comprising:

a third processor, separate from the first processor and second processor, in communication with the first processor over a second communications link, the third processor configured to determine a second event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the second communications link,

wherein the second processor determines the first event independent from the determination of the second event by the third processor and the third processor determines the second event independent from the determination of the first event by the second processor.

33. (New) A video system, comprising:  
an input in communication with a communications channel;  
a processor configured to receive from the input a stream of detected attributes received over the communications channel, the attributes being attributes of one or more objects detected in a video, the processor configured to determine an event that is not one of the detected attributes by analyzing a combination of the received attributes,  
wherein the attributes received over the communications channel are independent of the event to be determined by the processor.

34. (New) The video system of claim 33, wherein the communications channel comprises a network.

35. (New) The video system of claim 33, wherein the processor is operable to determine an event by analyzing only attributes of the received stream of attributes.

36. (New) The video system of claim 33, wherein the processor is operable to determine an event without reprocessing the video.

37. (New) A method of detecting an event from a video, comprising:  
receiving a stream of detected attributes over a communications channel, the detected attributes representing attributes of an object detected in a video;

performing an analysis of a combination of the detected attributes to detect an event that is not one of the detected attributes,

wherein the detected attributes received in the stream of attributes are independent of a selection of the event to be detected.

38. (New) The method of claim 37, wherein the communications channel comprises a network.

39. (New) The method of claim 37, wherein the analysis performed to detect an event determines an event by analyzing only attributes received in the stream of detected attributes.

40. (New) The method of claim 37, wherein the analysis performed to detect an event determines an event without reprocessing the video.

41. (New) A method comprising:  
analyzing a video to detect an object;  
creating a stream of attributes at a first location by determining attributes of the detected object by analyzing the video;  
transmitting the stream of attributes to a second location removed from the first location for subsequent analysis,  
wherein the stream of attributes are transmitted to the second location over a communications channel, and

wherein the stream of attributes is sufficient to allow the subsequent analysis to detect an event of the video, the event not being one of the determined attributes.

42. (New) The method of claim 41, further comprising:  
obtaining the video with a video capture apparatus.

43. (New) The method of claim 41, wherein the communications channel comprises a network.

44. (New) The method of claim 41, wherein the attributes of the stream of attributes are created independently of the subsequent analysis.

45. (New) The method of claim 41, wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes by analyzing a combination of the attributes.

46. (New) The method of claim 41, wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video.

47. (New) The method of claim 41, wherein the stream of attributes is transmitted over a communications channel without detection of an event at the first location.



48. (New) A video device, comprising:

a processor which analyzes a video to detect an object and to determine attributes of the object detected in the video;

an output configured to transmit the attributes determined by the processor over a communications link,

wherein the output is configured to transmit the attributes to a second location removed from the processor for a subsequent analysis of a combination of the attributes at the second location,

wherein the processor determines attributes independently of a subsequent analysis of a combination of attributes to determine an event that is not one of the determined attributes, and

wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes by analyzing the combination of the attributes.

49. (New) The video device of claim 48, further comprising:

a video capture apparatus to provide the video to the processor.

50. (New) The video device of claim 48, wherein the output transmits a stream of the detected attributes over the communications link.

51. (New) The video device of claim 50, wherein the communications link comprises a network.

52. (New) The video device of claim 48, wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video.

53. (New) The video device of claim 48, wherein the attributes are transmitted over the communications channel without detection of an event by the processor.

### REMARKS

With this amendment, claims 1-26 have been cancelled and claims 27-53 have been added. Claims 27, 33, 37, 41 and 48 are independent claims and the remaining claims depend from one of these claims (directly or indirectly). Support for these new claims can be found throughout the disclosure, including without limitation, for example with Figures 23, 24 and 25 and the corresponding description starting at paragraph [0087]. No new matter has been added.

The Applicant thanks Examiner Vo for his time during the personal interview of November 24, 2009. During the interview, the Applicant discussed draft claims presented for the Examiner's consideration to help expedite allowance of this application. Applicant discussed distinguishing features of the invention, and how those features were attempted to be captured by the draft claim language.

Claims 1, 25 and 26 are rejected under 35 U.S.C. §101. The rejection of these claims is moot in view of their cancellation.

Claims 1-8 and 18-21 are rejected under 35 U.S.C. §102(e) as being anticipated by Srinivasa et al. (U.S. Patent No. 7,227,893). Claims 9-17, 25 and 26 are rejected under 35 U.S.C. §103(a) being unpatentable over Srinivasa et al. in view of Elazar et al. (U.S. Patent Pub. No. US 2004/0161133). Claims 22-24 are rejected under 35 U.S.C. §103(a) as being unpatentable over Srinivasa in view of Hsu et al. (U.S. Patent No. 7,197,072). These rejections are moot in view of the cancellation of claims 1-26.

In addition, it is respectfully asserted that similar rejections applied to new claims 27-53 would be improper. For example, none of the prior art teaches or suggests:

a first processor which analyzes a video to determine attributes of objects detected in the video ... [and]

a second processor, separate from the first processor, in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, which determines a first event that is not one of the determined attributes by analyzing a combination of the received determined attributes

as recited by new claim 27.

In the latest Office Action, the Examiner highlighted Figure 1 of Elazar et al. as suggesting an event inference unit located remotely to detect at least one event based on a video primitive. Elazar et al. teaches a video transfer component 22 which transfers video information (a sampled video stream) to a computing and storage device 24 (which could be an external computing platform such as a PC, UNIX workstation or mainframe computer). See paragraph [0028]. A video analysis unit 26 receives the video input. An event database 42 stores event data and alarm data generated by a video analysis unit 26. See paragraph [0029].

Even if it were obvious to modify the teachings of Elazar et al. to provide first and second processors (which the Applicants do not admit), Elazar would still fail to suggest the recitations of claim 27, requiring both a first processor which analyzes a video to determine attributes of objects detected in the video and a second processor to be separate from the first processor and in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, and which determines an event that is not one of the determined attributes.

The recitations of the other independent claims are not taught or suggested by the prior art. For example, claim 37 recites:

receiving a stream of detected attributes over a communications channel,  
the detected attributes representing attributes of an object detected in a video;  
performing an analysis of a combination of the detected attributes to  
detect an event that is not one of the detected attributes,  
wherein the detected attributes received in the stream of attributes are  
independent of a selection of the event to be detected.

Elazar et al. does not teach or suggest such recitations, instead teaching a video analysis unit 26 which generates event data based on receiving video.

Similarly, the prior art also fails to teach or suggest the recitations of independent claims 33, 41, and 48. Other claims added in this amendment depend from one of independent claims 27, 33, 37, 41 and 48 and are allowable at least for this reason. However, it is emphasized that the prior art also fails to teach many of the additional features set forth therein.

It is believed that this application is in condition for allowance. Favorable consideration and prompt allowance are respectfully requested. A one month extension of time is filed concurrently with this amendment. However, in the event any fees are required in connection with this paper, please charge the Deposit Account No. 50-4574.

Respectfully submitted,

/Patrick D. Muir/ Reg. #37403

MUIR PATENT CONSULTING, PLLC.  
758 Walker Rd., Suite C  
Great Falls, VA 22066  
Fax: (703) 757-7447

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Patrick D. Muir  
Attorney for Applicants,  
Registration No. 37,403  
Tel: (703) 757-7880

## Electronic Patent Application Fee Transmittal

|  |  |                 |               |                             |
|--|--|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 11098385   |                 |               |                             |
| <b>Filing Date:</b>                            | 05-Apr-2005  |                 |               |                             |
| <b>Title of Invention:</b>                     | Video surveillance system employing video primitives |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Peter L. Venetianer                                  |                 |               |                             |
| <b>Filer:</b>                                  | Patrick Daniel Muir                                  |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | OV-103(215811 US)                                    |                 |               |                             |
| Filed as Small Entity                          |  |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |  |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                                      | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |  |                 |               |                             |
| <b>Pages:</b>                                  |  |                 |               |                             |
| <b>Claims:</b>                                 |  |                 |               |                             |
| Claims in excess of 20                         | 2202   | 1               | 26            | 26                          |
| Independent claims in excess of 3              | 2201   | 2               | 110           | 220                         |
| <b>Miscellaneous-Filing:</b>                   |  |                 |               |                             |
| <b>Petition:</b>                               |  |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |  |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |  |                 |               |                             |

| Description                       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|----------|--------|----------------------|
| <b>Extension-of-Time:</b>         |          |          |        |                      |
| Extension - 1 month with \$0 paid | 2251     | 1        | 65     | 65                   |
| <b>Miscellaneous:</b>             |          |          |        |                      |
| <b>Total in USD (\$)</b>          |          |          |        | <b>311</b>           |



## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 6695117  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 74712  |
| <b>Filer:</b>                               | Patrick Daniel Muir                                  |
| <b>Filer Authorized By:</b>                 |  |
| <b>Attorney Docket Number:</b>              | OV-103(215811 US)                                    |
| <b>Receipt Date:</b>                        | 22-DEC-2009  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 19:33:01   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|  |                 |
|--|-----------------|
| Submitted with Payment   | yes             |
| Payment Type   | Deposit Account |
| Payment was successfully received in RAM   | \$311           |
| RAM confirmation Number  | 6723            |
| Deposit Account  | 504574          |
| Authorized User  |                 |
| <p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <ul style="list-style-type: none"> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</li> <li>Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)</li> </ul> |                 |

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

**File Listing:**

| Document Number | Document Description | File Name               | File Size(Bytes)/<br>Message Digest              | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-------------------------|--|------------------|------------------|
| 1               |                      | 11098385_amd_OV_103.pdf | 89857<br>223e5bd4e635d8ee2d47be18dce2425b0c6e31b | yes              | 12               |

**Multipart Description/PDF files in .zip description**

| Document Description                                  | Start | End |
|---|-------|-----|
| Amendment/Req. Reconsideration-After Non-Final Reject | 1     | 1   |
| Claims  | 2     | 8   |
| Amendment/Req. Reconsideration-After Non-Final Reject | 9     | 12  |

**Warnings:**

**Information:**

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|---|-------------------------|--------------|---|----|---|
| 2 | Fee Worksheet (PTO-875) | fee-info.pdf | 33216<br>b3bdc1610656015db33f79e37e794d72e68e03ff | no | 2 |
|---|-------------------------|--------------|---|----|---|

**Warnings:**

**Information:**

**Total Files Size (in bytes):** 123073

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |   |   |              |   |                                  |   |                 |                     |    |                 |                     |
|---|---|---|--------------|---|----------------------------------|---|-----------------|---------------------|----|-----------------|---------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 |   |   |              | Application or Docket Number<br><b>11/098,385</b>   | Filing Date<br><b>04/05/2005</b> | <input type="checkbox"/> To be Mailed                                       |                 |                     |    |                 |                     |
| <b>APPLICATION AS FILED – PART I</b>  |   |   |              | (Column 1)      (Column 2)  |                                  | SMALL ENTITY <input checked="" type="checkbox"/> OR OTHER THAN SMALL ENTITY |                 |                     |    |                 |                     |
|   | FOR   | NUMBER FILED  | NUMBER EXTRA | RATE (\$)   | FEE (\$)                         |   | RATE (\$)       | FEE (\$)            |    |                 |                     |
| <input type="checkbox"/>  | BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>   | N/A   | N/A          | N/A   |                                  |   | N/A             |                     |    |                 |                     |
| <input type="checkbox"/>  | SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>  | N/A   | N/A          | N/A   |                                  |   | N/A             |                     |    |                 |                     |
| <input type="checkbox"/>  | EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>   | N/A   | N/A          | N/A   |                                  |   | N/A             |                     |    |                 |                     |
|   | TOTAL CLAIMS<br><small>(37 CFR 1.16(i))</small>   | minus 20 =  | *            | X \$ =  |                                  | OR  | X \$ =          |                     |    |                 |                     |
|   | INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>   | minus 3 =   | *            | X \$ =  |                                  |   | X \$ =          |                     |    |                 |                     |
| <input type="checkbox"/>  | APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>   | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |   |                                  |   |                 |                     |    |                 |                     |
| <input type="checkbox"/>  | MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>  |   |              |   |                                  |   |                 |                     |    |                 |                     |
|   |   |   |              | TOTAL   |                                  |   | TOTAL           |                     |    |                 |                     |
|   |   |   |              | * If the difference in column 1 is less than zero, enter "0" in column 2.   |                                  |   |                 |                     |    |                 |                     |
| <b>APPLICATION AS AMENDED – PART II</b>   |   |   |              | (Column 1)      (Column 2)      (Column 3)  |                                  | SMALL ENTITY OR OTHER THAN SMALL ENTITY                                     |                 |                     |    |                 |                     |
| AMENDMENT   | <b>12/22/2009</b>   | CLAIMS REMAINING AFTER AMENDMENT  |              | HIGHEST NUMBER PREVIOUSLY PAID FOR  | PRESENT EXTRA                    |   | RATE (\$)       | ADDITIONAL FEE (\$) |    | RATE (\$)       | ADDITIONAL FEE (\$) |
|   | Total <small>(37 CFR 1.16(i))</small>   | * 27  | Minus        | ** 26   | =                                |   | X \$ =          |                     | OR | X \$ =          |                     |
|   | Independent <small>(37 CFR 1.16(h))</small>   | * 3   | Minus        | ***2  | =                                |   | X \$ =          |                     | OR | X \$ =          |                     |
|   | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |   |              |   |                                  |   |                 |                     |    |                 |                     |
|   | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |   |              |   |                                  |   |                 |                     |    |                 |                     |
|   |   |   |              | TOTAL ADD'L FEE   |                                  |   | TOTAL ADD'L FEE |                     |    | TOTAL ADD'L FEE |                     |
|   |   |   |              | * If the entry in column 1 is less than the entry in column 2, write "0" in column 3.   |                                  |   |                 |                     |    |                 |                     |
|   |   |   |              | ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".                                       |                                  |   |                 |                     |    |                 |                     |
|   |   |   |              | *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".  |                                  |   |                 |                     |    |                 |                     |
|   |   |   |              | The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1. |                                  |   |                 |                     |    |                 |                     |

Legal Instrument Examiner:  
/JACQUELINE M. WEIR/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**  
*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*



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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | OV-103(215811 US)      |

**CONFIRMATION NO. 8277**

**POA ACCEPTANCE LETTER**



74712  
MUIR PATENT CONSULTING, PLLC  
758 WALKER RD  
SUITE C  
GREAT FALLS, VA 22066

Date Mailed: 12/02/2009

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 11/20/2009.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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|--------------------|-----------------------|-----------------------|------------------------|
| 11/098,385         | 04/05/2005            | Peter L. Venetianer   | 37112-215811           |

26694  
VENABLE LLP  
P.O. BOX 34385  
WASHINGTON, DC 20043-9998

**CONFIRMATION NO. 8277**  
**POWER OF ATTORNEY NOTICE**



Date Mailed: 12/02/2009

**NOTICE REGARDING CHANGE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 11/20/2009.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervned as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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| APPLICATION NO.              | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------|-------------|----------------------|---------------------|------------------|
| 11/098,385                   | 04/05/2005  | Peter L. Venetianer  | OV-103(215811 US)   | 8277             |
| 74712                        | 7590        | 12/02/2009           | EXAMINER            |                  |
| MUIR PATENT CONSULTING, PLLC |             |                      | VO, TUNG T          |                  |
| 758 WALKER RD                |             |                      | ART UNIT            | PAPER NUMBER     |
| SUITE C                      |             |                      | 2621                |                  |
| GREAT FALLS, VA 22066        |             |                      | MAIL DATE           | DELIVERY MODE    |
|                              |             |                      | 12/02/2009          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                          |                                      |  |  |
|--------------------------|--------------------------------------|--|--|
| <b>Interview Summary</b> | <b>Application No.</b><br>11/098,385 | <b>Applicant(s)</b><br>VENETIANER ET AL. |  |
|                          | <b>Examiner</b><br>Tung Vo           | <b>Art Unit</b><br>2621                  |  |

All participants (applicant, applicant's representative, PTO personnel):

(1) Tung Vo. (3) Patrick Muir.

(2) Peter Venetianer. (4) \_\_\_\_\_.

Date of Interview: 24 November 2009.

Type: a)  Telephonic b)  Video Conference  
c)  Personal [copy given to: 1)  applicant 2)  applicant's representative]

Exhibit shown or demonstration conducted: d)  Yes e)  No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 27-70.

Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f)  was reached. g)  was not reached. h)  N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The applicant discussed newly added claims 27-70 (see attachment herewith).

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

|  |  |
|--|--|
| /Tung Vo/<br>Primary Examiner, Art Unit 2621 |  |
|--|--|

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



U.S. Application Serial No. 12/569,116 (continuation of 09/987,707)  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attny Docket No.: OV-101, Customer No. 74,712

detecting a plurality of attributes of each of the detected first and second objects by analyzing the video, each attribute representing a characteristic of the respective detected object;

after detecting the plurality of attributes, identifying an event that is not one of the detected attributes by analyzing, of the detected plurality of attributes, only a selected first set of detected attributes of the first object and only a selected second set of detected attributes of the second object.

67. (New) The method of claim 66, wherein the first and second sets are different.

68. (New) The method of claim 66, wherein the first set is a subset of the detected plurality of attributes.

69. (New) The method of claim 68, wherein the second set is a subset of the detected plurality of attributes.

70. (New) The method of claim 66, further comprising identifying an event comprising an interaction of the first and second objects.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attorney Docket No. OV-103, Customer No. 74,712

Claims 1-26 (Cancelled).

27. (New) A video system comprising:

a first processor which analyzes a video to determine attributes of objects detected in the video;

a communications link to transfer the attributes determined by the first processor; and

a second processor, separate from the first processor, in communication with the communications link, which determines an event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the communications link

28. (New) The video system of claim 27, wherein the communications link comprises a network.

29. (New) The video system of claim 27, wherein the second processor determines an event by analyzing only the attributes transferred by the communications link.

30. (New) The video system of claim 27, wherein the second processor determines an event without reprocessing the video.

31. (New) The video system of claim 27, wherein the second processor analyzes the attributes to detect an event in real time.

32. (New) The video system of claim 27,

wherein the first processor determines attributes independent of what event is determined by the second processor.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attorney Docket No. OV-103, Customer No. 74,712

33. (New) A video system, comprising:  
an input;  
a processor configured to receive from the input a stream of detected attributes of one or more objects detected in a video, the processor configured to determine an event that is not one of the detected attributes by analyzing a combination of the received attributes.

34. (New) The video system of claim 33, wherein the processor is connected so as to receive the stream of detected attributes over a communication channel.

35. (New) The video system of claim 34, wherein the communications channel comprises a network.

36. (New) The video system of claim 33,  
wherein the processor is operable to determine a selected one of plural events, and  
wherein the attributes received in the stream of attributes are independent of the event determined by the processor.

37. (New) The video system of claim 33, wherein the processor is operable to determine an event by analyzing only attributes of the received stream of attributes.

38. (New) The video system of claim 33, wherein the processor is operable to determine an event without reprocessing the video.

39. (New) A method of detecting an event from a video, comprising:  
receiving a stream of detected attributes, the detected attributes representing attributes of an object detected in a video;

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attorney Docket No. OV-103, Customer No. 74,712

performing an analysis of a combination of the detected attributes to detect an event that is not one of the detected attributes.

40. (New) The method of claim 39, wherein the stream of detected attributes is received over a communication channel.

41. (New) The method of claim 40, wherein the communications channel comprises a network.

42. (New) The method of claim 39, further comprising:  
wherein the detected attributes received in the stream of attributes are independent of the selection of the event.

43. (New) The method of claim 39, wherein the analysis performed to detect an event determines an event by analyzing only attributes received in the stream of detected attributes.

44. (New) The method of claim 39, wherein the analysis performed to detect an event determines an event without reprocessing the video.

45. (New) A video system comprising:  
a first processor which analyzes a video to determine attributes of objects detected in the video;  
one or more communications links to transfer the attributes determined by the first processor; and  
a second processor, separate from the first processor, in communication with the one or more communications links, which determines a first event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the one or more communications links.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attorney Docket No. OV-103, Customer No. 74,712

a third processor, separate from the first processor and second processor, in communication with the one or more communications links, which determines a second event that is not one of the determined attributes by analyzing a combination of the attributes transferred by the one or more communications links,

wherein the second processor determines the first event independent from the determination of the second event by the third processor and the third processor determines the second event independent from the determination of the first event by the second processor.

46. (New) A method comprising:  
analyzing a video to detect an object;  
creating a stream of attributes by determining attributes of the detected object by further analyzing the video;  
transmitting the stream of attributes for subsequent analysis.

47. (New) The method of claim 46, further comprising:  
obtaining the video with a video capture apparatus,  
wherein the creating of the stream of attributes is at a first location and the transmitting of the stream of attributes includes transmitting the stream of attributes to a second location removed from the first location for subsequent analysis at the second location.

48. (New) The method of claim 46, further comprising:  
performing a first analysis of the stream of attributes at the first location,  
performing a second analysis of the stream of attributes at the second location.

49. (New) The method of claim 48, wherein the first analysis and the second analysis are independent analyses.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attny Docket No. OV-103, Customer No. 74,712

50. (New) The method of claim 48, wherein the first analysis and the second analysis are different analyses.

51. (New) The method of claim 46, wherein the stream of detected attributes is transmitted over a communication channel.

52. (New) The method of claim 51, wherein the communications channel comprises a network.

53. (New) The method of claim 46, wherein the attributes of the stream of attributes are created independently of the subsequent analysis.

54. (New) The method of claim 46, wherein the stream of attributes is sufficient to allow the subsequent analysis to detect an event of the video, the event not being one of the determined attributes.

55. (New) The method of claim 46, wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes by analyzing a combination of the attributes.

56. (New) The method of claim 46, wherein the stream of attributes is sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video.

57. (New) The method of claim 46, wherein the stream of attributes is transmitted over a communications channel without detection of an event at the location of the transmission of the attributes.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attny Docket No. OV-103, Customer No. 74,712

58. (New) A device comprising:

a video content analysis engine, connected to a source of a video to analyze the video to detect an object and generate parameters associated with the object;  
an output to output the parameters to an inference engine separate from the device,

wherein the inference engine is capable of analyzing the parameters to detect an event associated with the video, the event not being one of the detected parameters,

wherein the device does not include an inference engine.

59. (New) A video system, comprising:

a video content analysis engine, connected to a source of a video to analyze the video to detect an object and generate parameters associated with the object;

a first communications channel, connected to the video content analysis engine, to transmit the parameters generated by the video content analysis engine;

a first event inference engine, connected to the communications channel to receive the parameters transmitted by the communications channel and to analyze the parameters to infer an event occurrence associated with the video, the event occurrence to be inferred not being one of the generated parameters.

60. (New) The video system of claim 59, further comprising:

a second communications channel, connected to the video content analysis engine, to transmit the parameters generated by the video content analysis engine;

a second event inference engine, connected to the communications channel to receive the parameters transmitted by the second communications channel and to analyze the parameters to infer a second event occurrence associated with the video, the second event occurrence to be inferred not being one of the generated parameters.

U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET – NOT FOR ENTRY**  
Attny Docket No. OV-103, Customer No. 74,712

61. (New) The video system of claim 60, wherein the inference of the event occurrence to be inferred by the first event inference engine is independent from the inference of the event occurrence to be inferred by the second event inference engine.

62. (New) A video device, comprising:  
a processor which analyzes a video to detect an object and to determine attributes of the object detected in the video;  
an output which transmits the attributes determined by the processor over a communications link.

63. (New) The video device of claim 62, further comprising:  
a video capture apparatus to provide the video to the processor.

64. (New) The video device of claim 63, wherein the output transmits a stream of the attributes to a second location removed from the processor for a subsequent analysis of a combination of the attributes at the second location.

65. (New) The video device of claim 63, wherein the output transmits a stream of the detected attributes over the communications link.

66. (New) The video device of claim 65, wherein the communications link comprises a network.

67. (New) The video device of claim 63,  
wherein the processor determines attributes independently of a subsequent analysis of a combination of attributes to determine an event that is not one of the determined attributes.



U.S. Application Serial No. 11/098,385  
**DRAFT CLAIM SET - NOT FOR ENTRY**  
Attny Docket No. OV-103, Customer No. 74,712

68. (New) The video device of claim 62, wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes by analyzing a combination of the attributes.

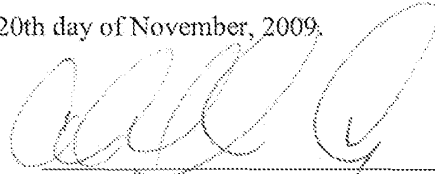
69. (New) The video device of claim 62, wherein the attributes are sufficient to allow detection of an event that is not one of the determined attributes without reprocessing the video.

70. (New) The video device of claim 62, wherein the attributes are transmitted over a communications channel without detection of an event by the processor.



The undersigned is empowered with full Power of Attorney on behalf of the assignee ObjectVideo, Inc. whose interest in the present application is empowered by the Assignments recorded on **Reel 011489 Frame 0630, Reel 012471 Frame 0512, Reel 014743 Frame 0573 and Reel 016299 Frame 0066.**

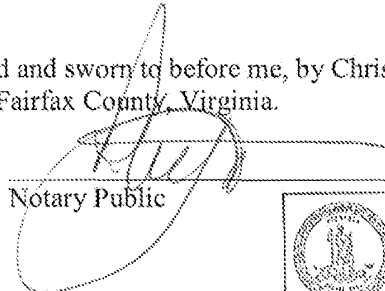
Respectfully submitted and executed this 20th day of November, 2009.



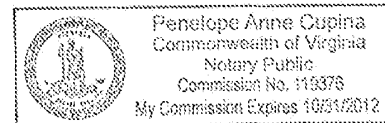
Christopher Capuano  
Vice President, Corporate Development &  
Licensing Programs  
ObjectVideo, Inc.  
11600 Sunrise Valley Dr, Suite 290  
Reston, VA 20191

COMMONWEALTH OF VIRGINIA:  
COUNTY OF FAIRFAX: to-wit:

The foregoing was subscribed and sworn to before me, by Christopher Capuano, this 20<sup>th</sup> day of November 2009, in Fairfax County, Virginia.



Notary Public



## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 6496905  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 26694  |
| <b>Filer:</b>                               | Patrick Daniel Muir/Melissa McGinn                   |
| <b>Filer Authorized By:</b>                 | Patrick Daniel Muir                                  |
| <b>Attorney Docket Number:</b>              | 37112-215811   |
| <b>Receipt Date:</b>                        | 20-NOV-2009  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 15:01:51   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name            | File Size(Bytes)/<br>Message Digest                               | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|----------------------|---|------------------|------------------|
| 1               | Power of Attorney    | PoA_OV103_215811.pdf | 354023<br><small>2e4b66e38be01a11047581c66c7ed9d2223c5bec</small> | no               | 2                |

### Warnings:

### Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



## Electronic Patent Application Fee Transmittal

|   |  |
|---|--|
| <b>Application Number:</b>                  | 11098385   |
| <b>Filing Date:</b>                         | 05-Apr-2005  |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Filer:</b>                               | Kyle D. Pataja/Tracie Xhema                          |
| <b>Attorney Docket Number:</b>              | 37112-215811   |

Filed as Large Entity

### Utility under 35 USC 111(a) Filing Fees

| Description                              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| <b>Basic Filing:</b>                     |          |          |        |                      |
| <b>Pages:</b>                            |          |          |        |                      |
| <b>Claims:</b>                           |          |          |        |                      |
| <b>Miscellaneous-Filing:</b>             |          |          |        |                      |
| <b>Petition:</b>                         |          |          |        |                      |
| <b>Patent-Appeals-and-Interference:</b>  |          |          |        |                      |
| <b>Post-Allowance-and-Post-Issuance:</b> |          |          |        |                      |
| <b>Extension-of-Time:</b>                |          |          |        |                      |

| Description                             | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>                   |          |          |        |                      |
| Submission- Information Disclosure Stmt | 1806     | 1        | 180    | 180                  |
| <b>Total in USD (\$)</b>                |          |          |        | <b>180</b>           |



## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 6178145  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 26694  |
| <b>Filer:</b>                               | Kyle D. Pataja/Tracie Xhema                          |
| <b>Filer Authorized By:</b>                 | Kyle D. Pataja                                       |
| <b>Attorney Docket Number:</b>              | 37112-215811   |
| <b>Receipt Date:</b>                        | 30-SEP-2009  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 16:51:10   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|  |                 |
|--|-----------------|
| Submitted with Payment                   | yes             |
| Payment Type                             | Deposit Account |
| Payment was successfully received in RAM | \$ 180          |
| RAM confirmation Number                  | 6363            |
| Deposit Account                          | 220261          |
| Authorized User                          |                 |

### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|

|  |  |                          |  |            |    |
|--|--|--------------------------|--|------------|----|
| 1  |  | 215811_IDS.pdf           | 225302<br>f1d29c3c9b6dce2f8e15ecfa976341301a08f00  | yes        | 4  |
| <b>Multipart Description/PDF files in .zip description</b> |  |                          |  |            |    |
|  | <b>Document Description</b>                          |                          | <b>Start</b>                                       | <b>End</b> |    |
|  | Transmittal Letter                                   |                          | 1  | 3          |    |
|  | Information Disclosure Statement (IDS) Filed (SB/08) |                          | 4  | 4          |    |
| <b>Warnings:</b>   |  |                          |  |            |    |
| <b>Information:</b>  |  |                          |  |            |    |
| 2  | Foreign Reference                                    | EP0893923A1.PDF          | 1320206<br>8566a0ca61b928db1bf57afdd04ee9ece8045f  | no         | 18 |
| <b>Warnings:</b>   |  |                          |  |            |    |
| <b>Information:</b>  |  |                          |  |            |    |
| 3  | Miscellaneous Incoming Letter                        | 213547_office_action.pdf | 691969<br>9062e3424a90a53d760d91f6cefbc5b3fc30da36 | no         | 14 |
| <b>Warnings:</b>   |  |                          |  |            |    |
| <b>Information:</b>  |  |                          |  |            |    |
| 4  | Miscellaneous Incoming Letter                        | SG_Office_Action.pdf     | 236332<br>0fd7e9e77bf1416d537755a13030b29f3c2b184f | no         | 4  |
| <b>Warnings:</b>   |  |                          |  |            |    |
| <b>Information:</b>  |  |                          |  |            |    |
| 5  | Fee Worksheet (PTO-875)                              | fee-info.pdf             | 29982<br>e63470cc379f5c06295d3a95f709844417ad4b    | no         | 2  |
| <b>Warnings:</b>   |  |                          |  |            |    |
| <b>Information:</b>  |  |                          |  |            |    |
| <b>Total Files Size (in bytes):</b>                        |  |                          |  | 2503791    |    |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

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**New International Application Filed with the USPTO as a Receiving Office**

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Tung T. Vo

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM

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Customer No:

**26694**

PATENT TRADEMARK OFFICE

**TWELFTH INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Madam:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

Applicants submit herewith a copy of a July 14, 2009 Office Action issued in connection with related U.S. Application No. 11/057,154 as well as an English translation of a March 13, 2009 Office Action issued in connection with related Singapore Patent Application No. 200716595-4.

U.S. Patent Documents AA and AB were cited in related U.S. Application No. 09/987,707; U.S. Patent Documents AC-AE were cited in the attached Office Action issued July 14, 2009 for related U.S. Application No. 11/057,154, all other documents from this Office Action have been previously cited and/or submitted in the present application; and Foreign Patent Document BA was cited in the attached Office Action issued March 13, 2009 in related Singapore Patent Application No. 200716595-4, all other documents from this Office Action have been previously cited and/or submitted in the present application.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

The Examiner is advised that the following co-pending applications contain subject matter that may be related to the present application. By bringing these applications to the Examiner's attention, Applicants do not waive the confidentiality provisions of 35 U.S.C. § 122.

| <b>Application Number</b> | <b>Filing Date</b> | <b>Art Unit</b>                      |
|---------------------------|--------------------|--------------------------------------|
| 09/694,712                | October 24, 2000   | NA / (now U.S. Patent No. 6,954,498) |
| 09/987,707                | November 15, 2001  | 2621                                 |
| 11/057,154                | February 15, 2005  | 2621                                 |
| 11/167,218                | June 28, 2005      | 2621                                 |
| 11/300,581                | December 15, 2005  | 2621                                 |
| 11/828,842                | July 26, 2007      | 2421                                 |

Application No.: 11/098,385

Docket No.: 37112-215811

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 22-0261 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: *September 30, 2009*

Respectfully submitted,

By: 

Michael A. Sartori, Ph.D.

Registration No.: 41,289

VENABLE LLP

P.O. Box 34385

Washington, DC 20043-9998

(202) 344-4000

(202) 344-8300 (Fax)

Attorney/Agent For Applicant

#1044718v1



UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 11/098,385   | 04/05/2005  | Peter L. Venetianer  | 37112-215811        | 8277             |
| 26694  | 7590        | 08/20/2009           | EXAMINER            |                  |
| VENABLE LLP<br>P.O. BOX 34385<br>WASHINGTON, DC 20043-9998 |             |                      | VO, TUNG T          |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2621                |                  |
|  |             |                      | MAIL DATE           | DELIVERY MODE    |
|  |             |                      | 08/20/2009          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |  |  |
|------------------------------|--------------------------------------|--|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>11/098,385 | <b>Applicant(s)</b><br>VENETIANER ET AL. |  |
|                              | <b>Examiner</b><br>Tung Vo           | <b>Art Unit</b><br>2621                  |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on \_\_\_\_.
- 2a)  This action is **FINAL**.                      2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 1-26 is/are pending in the application.  
    4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-26 is/are rejected.
- 7)  Claim(s) \_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on 05 April 2005 is/are: a)  accepted or b)  objected to by the Examiner.  
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
    a)  All    b)  Some \*    c)  None of:  
    1.  Certified copies of the priority documents have been received.  
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
    3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date: ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>02/03/09, 11/20/08, 06/09/08, 04/11/08, 03/14/08,</u><br><u>02/04/08, 11/13/07, 08/13/07, 06/029/07, 11/29/05, 07/01/05.</u> | 6) <input type="checkbox"/> Other: ____.  |





**DETAILED ACTION**

***Claim Rejections - 35 USC § 101***

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claim 1 is rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. Supreme Court precedent<sup>1</sup> and recent Federal Circuit decisions<sup>2</sup> indicate that a statutory “process” under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. While the instant claim recites a series of steps or acts to be performed, the claim neither transforms underlying subject matter nor is positively tied to another statutory category that accomplishes the claimed method steps, and therefore does not qualify as a statutory process. For example there is no device recited within the claims to accomplish an inventive step(s) of the method.

2. Claims 25-26 are rejected under 35 U.S.C. 101 because “a computer readable medium” as recited in claims 25 and 26 is a carrier wave, in transmitting and receiving e-mail (signal), or in accessing a network (signal).

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<sup>1</sup> *Diamond v. Diehr*, 450 U.S. 175, 184 (1981); *Parker v. Flook*, 437 U.S. 584, 588 n.9 (1978); *Gottschalk v. Benson*, 409 U.S. 63, 70 (1972); *Cochrane v. Deener*, 94 U.S. 780, 787-88 (1876).

<sup>2</sup> *In re Bilski*, 88 USPQ2d 1385 (Fed. Cir. 2008).

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-8 and 18-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Srinivasa et al. (US 7,227,893).

Re claims 1, Srinivasa discloses a video processing apparatus (fig. 1) comprising:

a video content analysis module (12 and 14 of fig. 1) to analyze an input video sequence (18 of fig. 1) and to derive at least one video primitive (e.g. Intruder Classifier, 16 of fig. 1); and

a video encoder (e.g. MPEG4 Object-Based Compression, 32 of fig. 1) to receive said input video sequence (VOP is a video object plane as a video sequence) and to output compressed video.

Re claim 2, Srinivasa further discloses a storage module (30 of fig. 1, note the website server data coupled to said video content analysis module to store at least one of the group consisting of a video primitive (Smart Labels of fig. 1) and at least one video frame (not the output of the system is stored in the server, 30 of fig. 1).

Re claim 3, Srinivasa further discloses a communications module (e.g. 34 of fig. 1) coupled to said video content analysis module (e.g. 12-14 of fig. 1) and to said video encoder (32 of fig. 1) to facilitate communication of at least one of the group consisting of said compressed video (compressed video stored in server, 30 of fig. 1) and at least one video primitive (Video Objects with Smart Labels of fig. 1).

Re claim 4 Srinivasa further discloses an event inference module (16 and 20 of fig. 1) coupled to said video content analysis module to detect at least one event (e.g. intruder event).

Re claim 5, Srinivasa further discloses wherein said event inference module is further to generate at least one alert (20 of fig. 1, intruder, YES).

Re claim 6, Srinivasa further discloses a communications module (30 of fig. 1) coupled to said video encoder (32 of fig. 1) and to said event inference module (16 of fig. 1) to facilitate communication of at least one of the group consisting of said compressed video (col. 14, lines 47-64, note the output of the system can be stored, e.g., in a video database/server for use, e.g., for notifying users when suspicious activity has been detected to have occurred and supplying

Art Unit: 2621

the user, e.g., with streaming video of the activity) and at least one alert (notifying users when suspicious activity has been detected to have occurred, e.g. 34 of fig. 1).

Re claim 7, Srinivasa further discloses a communications module (30 of fig. 1) coupled to said video encoder and to said event inference module to facilitate communication of said compressed video (compressed video stream will be transmitted to the user, col. 14, lines 60-64).

Re claim 8, Srinivasa further discloses a communications module (30 of fig. 1) coupled to said event inference module to receive at least one event rule (col. 16, lines 38-46) and to provide the at least one event rule to said event inference module (16 and 20 of fig. 1, col. 27, lines 20-27).

Re claim 18, Srinivasa further discloses a method of video processing (fig. 1) comprising: detecting whether or not there are one or more activities in a video sequence (e.g. 12-16 and 20 of fig. 1); encoding a video sequence to obtain encoded video (32 of fig. 1); and transmitting said encoded video (30 of fig. 1, transmitting the compressed video to sever); wherein at least one of the group consisting of said encoding and said transmitting depends upon at least one result of said detecting (e.g. VOP, Intruder, Yes of fig. 1).

Re claim 19, Srinivasa further discloses wherein said detecting comprises: analyzing said video sequence to obtain at least one of the group consisting of a video primitive and a detected video event (e.g. 14, 16, and 20 of fig. 1).

Re claim 20, Srinivasa further discloses wherein said transmitting is performed only if said detecting determines that at least one activity is present in said video sequence (VOP, Intruder, Yes, encoding VOP, 32 of fig. 1).

Re claim 21, Srinivasa further discloses wherein said encoding is performed only if said detecting determines that at least one activity is present in said video sequence (e.g. VOP is encoded, 32 of fig. 1).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 9-17 and 26 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Srinivasa et al. (US 7,227,893) in view of Elazar et al. (US 2004/0161133).

Re claims 9-17, Srinivasa further teaches the remote user (e.g. Cell Phone) enables to view the video stream and an alert unit (34 of fig. 1) located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video and an alert, and Rule-based processing modules (col. 9, lines 7-10) use the motion information to locate objects in scene, color information to extract the true boundaries, and segmentation result of previous frame to track the object.

It is noted that Srinivasa does not particularly teaches an event inference unit located remotely from said apparatus and coupled to said apparatus, the event inference unit to detect at least one event based on said at least one video primitive generated by said apparatus; a rules management tool located remotely from said apparatus and coupled to said event inference module to provide at least one event rule to said event inference module; a storage module

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located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video, a video primitive, and an alert; at least two of the apparatuses, said at least one video primitive of each of said apparatuses being combined into a single video primitive stream; and at least two event inference units located remotely from said apparatuses, each of said event inference units coupled to said apparatuses to receive said single video primitive stream, each of the event inference units to detect at least one event based on said single video primitive stream; herein each of said at least two event inference units is adapted to detect a different type of event as specified in claims 9, 11-13, 15-17.

Elazar teaches the cameras (e.g. 12-18 of fig. 1) could be connected to a plurality of computing and storage devices (e.g. 24 of fig. 1; [0030]), wherein units and components of the system (fig. 1) could be installed in distinct device distributed very wide area networks such as Internet, and the plurality of computing and storage devices (24 of fig. 1) are external devices ([0028], note The device 24 could be an external computing platform, such as a personal computer (PC), a UNIX workstation or a mainframe computer having appropriate processing and storage units or a dedicated hardware such as a DSP based platform), this fairly suggests that the plurality of computing and storage devices (24 of fig. 1) are located at the remote location.

Elazar further teaches the computing and storage device at remote location connected to Internet ([0030]) comprises an event inference unit (26 of fig. 1) located remotely from said apparatus and coupled to said apparatus, the event inference unit to detect at least one event based on said at least one video primitive generated by said apparatus; a rules management tool (36 and 46 of fig. 1) located remotely from said apparatus and coupled to said event inference module to provide at least one event rule to said event inference module ([0046], note in order to

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recognize patterns of unpredictable behavior a set of pre-defined rules could be implemented. These rules assist the system in capturing unpredictable behavior patterns taking place within the scenes monitored by the system); a storage module (e.g. 40 and 42 of fig. 1) located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video, a video primitive, and an alert; at least two of the apparatuses (the cameras and computing and storage device are combined to make obvious at least two apparatuses as suggested by Elazar, [0030] and fig. 1 of Srinivasa), said at least one video primitive of each of said apparatuses being combined into a single video primitive stream; and at least two event inference units (e.g. 26 of fig. 1) located remotely from said apparatuses, each of said event inference units coupled to said apparatuses to receive said single video primitive stream, each of the event inference units to detect at least one event based on said single video primitive stream (e.g. fig. 3A); wherein each of said at least two event inference units is adapted to detect a different type of event (figs. 3A and 4A).

Taking the teachings of Srinivasa and Elazar as a whole, it would have been obvious to one of ordinary skill in the art to modify the teachings of Elazar into the system of Srinivasa to provide the system that could prevent life-threatening situations.



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Re claims 25 and 26, Elazar further discloses the suitable execution of sets of computer instructions embedded within a specifically developed computer program [0033] to implement the method.

6. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Srinivasa et al. (US 7,227,893) in view of Hsu et al. (US 7,197,072).

Re claim 22, Srinivasa does not particularly teach wherein a parameter of said encoding is adjusted based upon at least one result of said detecting; a parameter of said transmitting is adjusted based upon at least one result of said detecting; wherein, based upon at least one result of said detecting, at least one of the group consisting of the following is adjusted: bit-rate for said encoding; frame-rate for said encoding; bit-rate for said transmitting; frame-rate for said transmitting; resolution for said encoding; and resolution for said transmitting as claimed.

Hsu teaches wherein a parameter of said encoding is adjusted based upon at least one result of said detecting (Bit Allocation and Rate Control for encoder, figs. 6A and 6B); a parameter of said transmitting is adjusted based upon at least one result of said detecting (fig. 7); wherein, based upon at least one result of said detecting, at least one of the group consisting of the following is adjusted: bit-rate for said encoding (e.g. fig. 7); frame-rate for said encoding (figs. 6A and 6B); bit-rate for said transmitting; frame-rate for said transmitting; resolution for said encoding; and resolution for said transmitting (e.g. figs. 6A, 6B, and 7).

Taking the teachings of Srinivasa and Hsu as a whole, it would have been obvious to one of ordinary skill in the art to modify the teachings of Hsu into Srinivasa to advantageously improve picture quality in a video encoder.

***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chang et al. (US 6,025,877) discloses scalable transmission method of visual objects segmented by content-base.

***Contract Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/

Primary Examiner, Art Unit 2621

|                                   |                                       |  |             |
|-----------------------------------|---------------------------------------|--|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>11/098,385 | Applicant(s)/Patent Under Reexamination<br>VENETIANER ET AL. |             |
|                                   | Examiner<br>Tung Vo                   | Art Unit<br>2621   | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY    | Name    | Classification     |            |
|---|--|--------------------|---------|--------------------|------------|
| * | A  | US-5,912,980 A     | 06-1999 | Hunke, H. Martin   | 382/103    |
| * | B  | US-6,025,877 A     | 02-2000 | Chang et al.       | 375/240.01 |
| * | C  | US-6,097,429 A     | 08-2000 | Seeley et al.      | 348/154    |
| * | D  | US-6,360,234 B2    | 03-2002 | Jain et al.        | 715/201    |
| * | E  | US-2003/0231769 A1 | 12-2003 | Bolle et al.       | 380/210    |
| * | F  | US-2004/0161133 A1 | 08-2004 | Elazar et al.      | 382/115    |
| * | G  | US-2006/0279630 A1 | 12-2006 | Aggarwal et al.    | 348/143    |
| * | H  | US-7,197,072 B1    | 03-2007 | Hsu et al.         | 375/240.02 |
| * | I  | US-7,227,893 B1    | 06-2007 | Srinivasa et al.   | 375/240.08 |
| * | J  | US-7,356,830 B1    | 04-2008 | Dimitrova, Nevenka | 725/51     |
| * | K  | US-7,447,331 B2    | 11-2008 | Brown et al.       | 382/103    |
|   | L  | US-                |         |                    |            |
|   | M  | US-                |         |                    |            |


**FOREIGN PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|--|-----------------|---------|------|----------------|
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|   | R  |                 |         |      |                |
|   | S  |                 |         |      |                |
|   | T  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|
|   | U   |
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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|--|--|---|
| <b><i>Index of Claims</i></b><br><br> | <b>Application/Control No.</b><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br>Tung Vo                 | <b>Art Unit</b><br>2621   |

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|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |  |  |  |  |  |  |  |  |  |
|-------|----------|------------|--|--|--|--|--|--|--|--|--|
| Final | Original | 03/31/2009 |  |  |  |  |  |  |  |  |  |
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|       | 2        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 3        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 4        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 5        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 6        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 7        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 8        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 9        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 10       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 11       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 12       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 13       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 14       | ✓          |  |  |  |  |  |  |  |  |  |
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|       | 16       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 17       | ✓          |  |  |  |  |  |  |  |  |  |
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|       | 19       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 20       | ✓          |  |  |  |  |  |  |  |  |  |
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|       | 22       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 23       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 24       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 25       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 26       | ✓          |  |  |  |  |  |  |  |  |  |

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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>11098385 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>VENETIANER ET AL. |
|  | <b>Examiner</b><br><br>Tung Vo                 | <b>Art Unit</b><br><br>2621   |

| SEARCHED |                                   |           |          |
|----------|-----------------------------------|-----------|----------|
| Class    | Subclass                          | Date      | Examiner |
| 348      | 143, 148, 150, 149, 166, 169, 170 | 3/31/2009 | TV       |
| 382      | 103, 115                          | 3/31/2009 | TV       |
| 375      | 240.02, 240.08                    | 3/31/2009 | TV       |

| SEARCH NOTES |           |          |
|--------------|-----------|----------|
| Search Notes | Date      | Examiner |
| EAST         | 3/31/2009 | TV       |

| INTERFERENCE SEARCH |          |      |          |
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| Class               | Subclass | Date | Examiner |
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## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L1    | 3    | "20030156189"                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/02/23<br>07:50 |
| L2    | 2    | "20030210329"                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/02/23<br>07:54 |
| L3    | 6    | ((("7027083") or ("6724421")<br>or ("6437819")).PN. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/02/23<br>07:55 |
| L4    | 2    | ("5921980").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/02/23<br>08:00 |
| L5    | 2    | ("5912980").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/02/23<br>08:01 |
| L6    | 3    | "20030231769"                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/02/23<br>08:08 |
| L7    | 1676 | object same track\$4 same<br>alarm                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/02/23<br>08:28 |
| L8    | 563  | diep.xp.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/02/23<br>08:28 |

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| L9  | 382     | nhon.xp.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:28 |
| L10 | 3       | 7 and 8 and 9   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:28 |
| L11 | 472     | event same track\$4 same<br>user same (defin\$4 or rule\$1<br>or authenticat\$4) same<br>object   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:36 |
| L12 | 94251   | (detect\$4 or determin\$4 or<br>predetermine\$4 or monitored<br>\$4) same (restrict\$4 or privat<br>\$4 or exclusive) same (region<br>\$4 or area\$1 or zone) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:38 |
| L13 | 110     | 11 and 12   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:38 |
| L14 | 1919049 | (detect\$4 or determin\$4 or<br>predetermine\$4 or monitored<br>\$4) same (region\$4 or area<br>\$1 or zone)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:43 |
| L15 | 101     | 11 same 14  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:44 |
| L16 | 9458    | event same track\$4 same<br>object  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:50 |
| L17 | 48536   | (operator or user or client)<br>same (predetermin\$4 or<br>defin\$4 or determin\$4)<br>same rule  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:51 |

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| L18 | 849   | 16 and 17   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:51 |
| L19 | 0     | 18 and @ad<="10050215"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:52 |
| L20 | 461   | 18 and @ad<="20050215"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:52 |
| L21 | 105   | 16 same 17  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:52 |
| L22 | 53    | 21 and @ad<="20050215"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>08:52 |
| L23 | 46721 | event same (detect\$4 or<br>analysis\$4 or determin\$4 or<br>track\$4) same object  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:09 |
| L24 | 49641 | (operator or user or client)<br>same (predetermin\$4 or<br>defin\$4 or determin\$4)<br>same rule\$1   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:09 |
| L25 | 631   | 23 same 24  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:10 |
| L26 | 673   | event same (detect\$4 or<br>analysis\$4 or determin\$4 or<br>track\$4) same object same<br>(monitor\$4 or surveillanc\$4<br>or security) same video | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:11 |



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| L27 | 104  | 24 and 26   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:11 |
| L28 | 44   | 27 and @ad<="20050215"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:11 |
| L29 | 107  | (video with object with<br>content) same (compress\$4<br>or encod\$4) same transmi\$4                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:17 |
| L30 | 78   | 29 and @ad<="20050215"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:18 |
| L31 | 1391 | (video with object) same<br>(compress\$4 or encod\$4)<br>same transmi\$4  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:24 |
| L32 | 3686 | event same (detect\$4 or<br>analysis\$4 or determin\$4)<br>same (monitor\$4 or<br>surveillanc\$4 or security)<br>same video | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:24 |
| L33 | 41   | 31 and 32   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/02/23<br>09:25 |

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| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L2    | 10   | video same content same object\$1 same (encod\$4 or compress\$4) same alert   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2009/03/12 05:46 |
| L3    | 1954 | video same content same object\$1 same (encod\$4 or compress\$4)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2009/03/12 05:46 |
| L4    | 143  | video same content same event same (alarm or alert\$4 or trigger or notification) same remote same (user or client or operator) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2009/03/12 05:47 |
| L5    | 17   | 3 and 4   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2009/03/12 05:47 |
| L6    | 2335 | video same (segment\$4 or extract\$4 or track \$4) same object \$1 same (encod \$4 or compress \$4)                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2009/03/12 05:49 |

|     |      |  |  |     |    |                  |
|-----|------|--|--|-----|----|------------------|
| L7  | 681  | video same (occur \$4 or event or activit\$4 or intruder or suspect or theft or burglary) same (alarm or alert\$4 or trigger or notification) same remote same (user or client or operator)                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/12 05:50 |
| L8  | 5117 | video same (occur \$4 or event or activit\$4 or intruder or suspect or theft or burglary or alarm or alert\$4 or trigger or notification) same remote same (user or client or operator)                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/12 05:51 |
| L9  | 149  | 6 and 8  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/12 05:51 |
| L10 | 290  | video same (segment\$4 or extract\$4) same track\$4 same object\$1 same (encod\$4 or compress\$4)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/12 05:54 |
| L11 | 1972 | (detect\$4 or classif\$4 or determin\$4) same (occurence \$1 or event or activit\$4 or intruder or suspect or theft or burglary or alarm) same (alert \$4 or notificat\$4) same remote same (user or client or | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/12 05:55 |

|     |       |   |   |     |    |                     |
|-----|-------|---|---|-----|----|---------------------|
| L12 | 4     | operator)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>05:55 |
| L13 | 39802 | (detect\$4 or<br>classif\$4 or<br>determin\$4)<br>same (occurrence<br>\$1 or event or<br>activit\$4 or<br>intruder or<br>suspect or theft<br>or burglary or<br>alarm) same (alert<br>\$4 or notificat\$4) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>06:05 |
| L14 | 15    | 10 and 13   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>06:05 |
| L15 | 17483 | alarm same (alert<br>\$4 or notificat\$4)<br>same (user or<br>client or<br>operator)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>06:06 |
| L16 | 2     | 10 and 15   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>06:06 |
| L17 | 18    | video same<br>(segment\$4 or<br>extract\$4) same<br>track\$4 same<br>object\$1 same<br>(encod\$4 or<br>compress\$4)<br>same<br>(surveillance or<br>monitoring or<br>security)                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/12<br>06:07 |

3/ 12/ 2009 6:33:33 AM

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## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
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| L1    | 28   | object\$1 same video same (segment\$4 or track\$4 or extract\$4) same alert\$4 same (rule\$4 or (pre adj defin\$4) or (user adj define))                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:17 |
| L2    | 2692 | object\$1 same video same (segment\$4 or track\$4 or extract\$4) same (compress\$4 or encod\$4 or codec or coding)                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:17 |
| L3    | 534  | object\$1 same video same (segment\$4 or track\$4 or extract\$4) same (rule\$4 or (pre adj defin\$4) or (user adj define))                              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:19 |
| L4    | 210  | 2 and 3   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:19 |
| L5    | 44   | object\$1 same video same (segment\$4 or track\$4 or extract\$4) same (rule\$4 or (pre adj defin\$4) or (user adj define)) same (alert \$4 or alarm\$4) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:28 |
| L6    | 18   | 2 and 5   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:28 |
| L7    | 3    | "20050169367"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/30<br>14:37 |

**3/ 30/ 2009 2:46:35 PM**

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## EAST Search History

| Ref # | Hits  | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|-------|---|---|------------------|---------|---------------------|
| L1    | 0     | extract\$4 same track\$4 same VOP same ((control\$4 or adjust\$4 or allocat\$4) with rate) same (encod\$4 or compress\$4) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:20 |
| L2    | 1     | track\$4 same VOP same ((control\$4 or adjust\$4 or allocat\$4) with rate) same (encod\$4 or compress\$4)                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:20 |
| L3    | 84    | VOP same ((control\$4 or adjust\$4 or allocat\$4) with rate) same (encod\$4 or compress\$4)                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:21 |
| L4    | 384   | (extract\$4 or segment\$4 or divid\$4) same VOP same video  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:21 |
| L5    | 37    | 4 and 3   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:21 |
| L6    | 15381 | surveillance same camera  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:23 |
| L7    | 0     | 3 and 6   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2009/03/31<br>11:23 |

|     |       |   |   |     |    |                     |
|-----|-------|---|---|-----|----|---------------------|
| L8  | 75407 | ((control\$4 or adjust\$4 or allocat \$4) with rate) same (encod\$4 or compress\$4)           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:23 |
| L9  | 29911 | (extract\$4 or segment\$4 or divid \$4) same (VO or (video with object) or vop)               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:23 |
| L10 | 10    | 6 and 8 and 9   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:24 |
| L11 | 766   | 8 and 9   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:24 |
| L12 | 97211 | (remot\$4 or surveillan\$4 or traffic\$4 or monitoring or security) same camera               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:25 |
| L13 | 41    | 11 and 12   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:25 |
| L14 | 1076  | (extract\$4 or segment\$4 or divid \$4) same (VO or (video with object) or vop) same MPEG \$4 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:28 |
| L15 | 1076  | 9 and 14  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2009/03/31<br>11:28 |



|     |       |  |   |     |     |                     |
|-----|-------|--|---|-----|-----|---------------------|
| L16 | 97255 | (remot\$4 or surveillan\$4 or traffic\$4 or monitoring or security) same camera\$4             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/03/31<br>11:28 |
| L17 | 89    | 15 and 16  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/03/31<br>11:29 |
| L18 | 6259  | ((control\$4 or adjust\$4 or allocat \$4) with rate) same (encod\$4 or compress\$4) same video | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/03/31<br>11:33 |
| L19 | 596   | 12 and 18  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/03/31<br>11:33 |
| L20 | 41    | 9 and 19   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2009/03/31<br>11:34 |
| L23 | 10    | ((("6025877") or ("6360234") or ("7447331") or ("6097429") or ("5912980")).PN.                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2009/03/31<br>12:49 |

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Receipt date: 02/03/2009

11098385 - GAU: 2621

PTO/SB/08b (12-08)  
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| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |              |    | <b>Complete if Known</b> |                        |  |
|   |              |    | Application Number       | 11/098,385-Conf. #8277 |  |
|   |              |    | Filing Date              | April 5, 2005          |  |
|   |              |    | First Named Inventor     | Péter L. Venetianer    |  |
|   |              |    | Art Unit                 | 2621                   |  |
| Examiner Name   | M. Dastouri  |    |                          |                        |  |
| Attorney Docket Number  | 37112-215811 |    |                          |                        |  |
| Sheet   | 1            | of | 1                        |                        |  |

| U.S. PATENT DOCUMENTS |                       |  |                  |   |   |
|-----------------------|-----------------------|--|------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
|                       | AA                    | US-20060232673                           | 10-19-2006       | Lipton et al.                                   |   |
|                       | AB                    | US-20070002141                           | 01-04-2007       | Lipton et al.                                   |   |
|                       | AC                    | US-2007/0127774                          | 06-07-2007       | Zhang et al.                                    |   |
|                       | AD                    | US-20070052803                           | 03-08-2007       | Chosak et al.                                   |   |
|                       |                       |  |                  |   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                  |   |   |                |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |   |   |                |
|                          |                       |   |                  |   |   |                |
|                          |                       |   |                  |   |   |                |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>7</sup> |
|                                 | CA                    | International Search Report for International Application No. PCT/US08/09073, dated November 3, 2008.   |                |
|                                 | CB                    | Written Opinion for International Patent Application No. PCT/US08/09073, dated November 3, 2008.  |                |

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

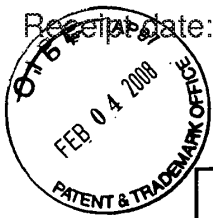
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 02/04/2008

11098385 - GAU: 2621



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(Based on PTO 10-07 version)

|   |   |                          |                          |                        |              |
|---|---|--------------------------|--------------------------|------------------------|--------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   | <b>Complete if Known</b> |                          |                        |              |
|   |   | Application Number       | 11/098,385 – Conf. #8277 |                        |              |
|   |   | Filing Date              | April 5, 2005            |                        |              |
|   |   | First Named Inventor     | Peter Venetianer         |                        |              |
|   |   | Art Unit                 | 2621                     |                        |              |
|   |   | Examiner Name            | Mehrdad Dastouri         |                        |              |
| Sheet   | 1 | of                       | 1                        | Attorney Docket Number | 37112-215811 |

| U.S. PATENT DOCUMENTS |                       |  |                                |  |   |
|-----------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | A1                    | 6,424,370                                | 07-23-2002                     | Courtney   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                                |  |   |                |
|--------------------------|-----------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
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| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | C1                    | International Search Report issued for PCT Application No. PCT/US06/25196, mailed on January 16, 2008.   |                |
|                                 | C2                    | Written Opinion issued for PCT Application No. PCT/US06/25196, mailed on January 16, 2008.   |                |
|                                 | C3                    | Shio et al., "Segmentation of People in Motion", IEEE 1991, p. 325-332.  |                |

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number       | 11/098,385 – Conf. #8277 |
|  |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
|  |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet  | 1 | of                       | 1                        |
|  |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |                               |            |                             |   |   |
|-----------------------|-----------------------|-------------------------------|------------|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number               |            | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> | (if known) |                             |   |   |
|                       | A1                    | 2002/0191851                  | A1         | 12-19-2002                  | Keinan  |   |
|                       | A2                    | 6,707,852                     | B1         | 03-16-2004                  | Wang  |   |

| FOREIGN PATENT DOCUMENTS |                       |                           |   |                             |   |   |                |
|--------------------------|-----------------------|---------------------------|---|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |   | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> | Number <sup>4</sup> -Kind Code <sup>5</sup> |                             |   |   |                |
|                          | B1                    | EP                        | 0893823 A1                                  | 01-27-1999                  | Texas Instruments France                        |   |                |
|                          | B2                    | EP                        | 1333682 A1                                  | 08-06-2003                  | Samsung Electronics Co., Ltd.                   |   |                |
|                          | B3                    | EP                        | 0293189 B1                                  | 07-13-1994                  | Sony Corporation                                |   |                |
|                          | B4                    | WO                        | 1994/003014 A1                              | 02-03-1994                  | Koz et al.                                      |   |                |
|                          | B5                    | JP                        | 09-247654 A                                 | 09-19-1997                  | Fujitsu General Ltd.                            |   | X              |

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| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | C1                    | International Search Report issued in PCT Application No. PCT/US2006/012556, mailed on February 12, 2008.  |                |
|                                 | C2                    | Written Opinion issued in PCT Application No. PCT/US2006/012556, mailed on February 12, 2008.  |                |

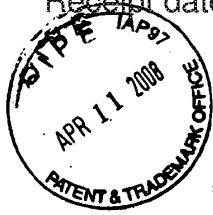
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

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| Substitute for form 1449/PTO   |   | <i>Complete if Known</i> |                          |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number       | 11/098,385 – Conf. #8277 |
|  |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
|  |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet  | 1 | of                       | 1                        |
|  |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |                  |   |   |
|-----------------------|-----------------------|--|------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
|                       | A1                    | 6,211,907                                | 04-03-2001       | Scaman et al.                                   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                  |   |   |                |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |   |   |                |
|                          | B1                    | WO 01/62005   | 08-23-2001       | Wilson  |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>6</sup> CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |  |    |  |                |
|---------------------------------|-----------------------|--|----|--|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |    |  | T <sup>2</sup> |
|                                 |                       |  | C1 | Notification for IL App. No. 161777 issued February 21, 2008 and English translation thereof |                |

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

DC2/944359

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 06/09/2008

11098385 - GAU: 2621



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO  |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   | Application Number       | 11/098,385 – Conf. #8277 |
|   |   | Filing Date              | April 5, 2005            |
|   |   | First Named Inventor     | Peter Venetianer         |
|   |   | Art Unit                 | 2621                     |
|   |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet   | 1 | of                       | 2                        |
|   |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |  |                             |   |   |
|-----------------------|-----------------------|--|--|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                             |   |   |
|                       | A1                    | 4,249,207                                |  | 2/3/1981                    | Harman et al.                                   |   |
|                       | A2                    | 4,257,063                                |  | 3/17/1981                   | Loughry et al.                                  |   |
|                       | A3                    | 5,926,210                                |  | 7/20/1999                   | Hackett et al.                                  |   |
|                       | A4                    | 5,963,202                                |  | 10/5/1999                   | Polish  |   |
|                       | A5                    | 6,069,653                                |  | 5/30/2000                   | Hudson et al.                                   |   |
|                       | A6                    | 6,297,844                                |  | 10/2/2001                   | Schatz et al.                                   |   |
|                       | A7                    | 6,570,608                                |  | May-03                      | Tsergn  |   |
|                       | A8                    | 6,573,907                                |  | 6/3/2003                    | Madrane et al.                                  |   |
|                       | A9                    | 6,696,945                                |  | 2/24/2004                   | Venetianer et al.                               |   |
|                       | A10                   | 6,727,938                                |  | 4/27/2004                   | Randall   |   |
|                       | A11                   | 6,738,424                                |  | 5/18/2004                   | Allmen et al.                                   |   |
|                       | A12                   | 6,954,498                                |  | 10/11/2005                  | Lipton  |   |
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|                       | A14                   | 2002/0008758                             |  | 1/24/2002                   | Broemmelsiek et al.                             |   |
|                       | A15                   | 2002/0082769                             |  | 6/27/2002                   | Church et al.                                   |   |
|                       | A16                   | 2005/0146605                             |  | 7/7/2005                    | Lipton et al.                                   |   |
|                       | A17                   | 2005/0157169                             |  | 7/21/2005                   | Brodsky et al.                                  |   |
|                       | A18                   | 2005/0162515                             |  | 7/28/2005                   | Venetianer et al.                               |   |
|                       | A19                   | 2005/0168574                             |  | 8/4/2005                    | Lipton et al.                                   |   |
|                       | A20                   | 2007/0013776                             |  | 1/18/2007                   | Venetianer et al.                               |   |
|                       | A21                   | 2007/0127774                             |  | 6/7/2007                    | Zhang et al.                                    |   |
|                       | A22                   | 2008/0100704A1                           |  | 5/1/2008                    | Venetianer et al.                               |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                             |   |   |                |
|--------------------------|-----------------------|---|--|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                             |   |   |                |
|                          |                       |   |  |                             |   |   |                |

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|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|  |   |                          |                          |
|--|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO                             |   | <b>Complete if Known</b> |                          |
|  |   | Application Number       | 11/098,385 – Conf. #8277 |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
|  |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet  | 2 | of                       | 2                        |
|  |   | Attorney Docket Number   | 37112-215811             |
| <b>NON PATENT LITERATURE DOCUMENTS</b>                   |   |                          |                          |

| Examiner Initials | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|-------------------|-----------------------|--|----------------|
|                   | C1                    | CN Office Action for CN 02822772.7 on October 14, 2005 in English.   |                |
|                   | C2                    | International Search Report issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007  |                |
|                   | C3                    | International Search Report issued for PCT Application No. PCT/US01/32614 on May 6, 2002.  |                |
|                   | C4                    | International Search Report issued for PCT Application No. PCT/US02/22688 on December 11, 2002.  |                |
|                   | C5                    | Written Opinion of the International Searching Authority issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007   |                |

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

DC2/958994

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

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Receipt date: 06/29/2007

11098385 - GAI: 2021



PTO/SB/21 (09-06) Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                        |                          |
|--|------------------------|--------------------------|
| <b>TRANSMITTAL FORM</b><br><small>(to be used for all correspondence after initial filing)</small> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> <b>Fee Transmittal Form</b><br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> <b>Information Disclosure Statement and PTO/SB/08A</b><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks  |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  |                    |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | June 29, 2007      | Reg. No. | 53,825 |

DC1/244940

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./



Receipt date: 06/29/2007

11098385 - GAU: 2621



PTO/SB/17 (07-06)  
Approved for use through 01/31/2007. OMB 0651-0032  
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|---|--|--------------------------|--------------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2006</b> |  | <b>Complete if Known</b> |                          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385 - Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter Venetianer         |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | _____          |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    | _____          |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    | _____          |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   | _____          |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     | _____          |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - 34 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - 6 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets  | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|---------------|--|----------|---------------|
| _____        | - 100 = _____ | /50 _____ (round up to a whole number) x _____   | = _____  | _____         |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                    |                                   |               |           |                |
|-------------------|--------------------|-----------------------------------|---------------|-----------|----------------|
| Signature         |                    | Registration No. (Attorney/Agent) | 53,825        | Telephone | (202) 344-4975 |
| Name (Print/Type) | Marina V. Zalevsky | Date                              | June 29, 2007 |           |                |

DC1/244936

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 06/29/2007

11098385 - GAU: 2621



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Venetianer et al.

Art Unit: 2613

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the reference listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Application No.: 11/098,385

Docket No.: 37112-215811

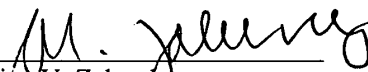
defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

We believe that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: June 29, 2007

Respectfully submitted,

By   
Marina V. Zalevsky

DC1/244916

Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

Receipt date: 06/29/2007

11098385 - GAU: 2621



PTO/SB/08A/B (09-06)  
 Approved for use through 03/31/2007. OMB 0651-0031  
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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|---|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO  |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE<br/>                 STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number       | 11/098,385 – Conf. #8277 |
|   |   | Filing Date              | April 5, 2005            |
|   |   | First Named Inventor     | Peter Venetianer         |
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|   |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet   | 1 | of                       | 1                        |
|   |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |  |                                |   |   |
|-----------------------|-----------------------|--|--|--------------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                                |   |   |
|                       | AA                    | US-6,628,835                             |  | 09-30-2003                     | Brill et al.                                    |   |
|                       | AB                    | US-                                      |  |                                |   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                                |   |   |                |
|--------------------------|-----------------------|---|--|--------------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                                |   |   |                |
|                          | BA                    |   |  |                                |   |   |                |
|                          | BB                    |   |  |                                |   |   |                |

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| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    |   |                |
|                                 | CB                    |   |                |

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

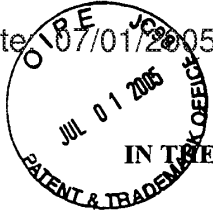
DC17/244909

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date 07/01/2005

11098385 - GAU: 2621

*frw*



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**Peter VENETIANER et al.**

Application No: 11/098,385

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

**Confirmation No: 8277**

Art Unit: 2613

Examiner: Not yet assigned

Atty. Docket No: 37112-215811

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

***Mail Stop: Patent Applications***

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b).

In order to comply with applicant's duty of disclosure under 37 C.F.R. § 1.56, the U.S. Patent and Trademark Office is notified of the documents which are listed on the attached Form PTO/SB/08A and which the Examiner may deem relevant to patentability of the claims of the above-identified application. No copies of the listed documents are being submitted as these documents have previously been submitted to the Patent Office and/or made of record in copending Applications No. 09/694,712, 09/987,707 and 11/057,154.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information

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Receipt date: 07/01/2005

11098385 - GAU: 2621



Applicants: *Peter VENETIANER et al.*  
Application No.: *11/098,385*

Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

No fee is due for the submission of this Information Disclosure Statement. However, if any additional fees are deemed necessary, please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Respectfully submitted,

Date: July 1, 2005

A handwritten signature in black ink, appearing to read "Jeffrey W. Gluck".

Jeffrey W. Gluck, Ph.D.  
Registration No. 44,457  
VENABLE LLP  
P.O. Box 34385  
Washington, D.C. 20043-9998

Telephone: (202) 344-4000  
Facsimile: (202) 344-8300

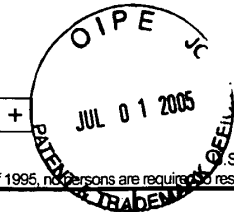
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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |        | Application Number       | 11/098,385                  |
|  |        | Filing Date              | April 25, 2005              |
|  |        | First Named Inventor     | P. VENETIANER <i>et al.</i> |
|  |        | Group Art Unit           | 2613                        |
|  |        | Examiner Name            | Not Yet Assigned            |
|  |        | Attorney Docket Number   | 37112-215811                |
| Sheet  | 1 of 3 |                          |                             |

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
|                       | 1                     | 6,801,662            | B1                                | OWECHKO, et al.                                 | 10/05/2004                                       |   |
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|                       | 3                     | 2003/0051255         | A1                                | BULMAN, et al.                                  | 3/13/2003  |   |
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|                       | 31                    | 5,610,653            |                                   | ABECASSIS                                       | 03/11/97   |   |
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| FOREIGN PATENT DOCUMENTS |                        |                         |                     |                                   |   |  |   |    |
|--------------------------|------------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----|
| Examiner Initials*       | Cite No. <sup>1</sup>  | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Ts |
|                          |                        | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |    |
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| Examiner Signature       | /Tung Vo/ (03/31/2009) |                         |                     |                                   | Date Considered                                 | 03/31/2009                                       |   |    |

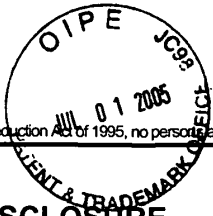
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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   | Application Number       | 11/098,385                  |
|   |   | Filing Date              | April 5, 2005               |
|   |   | First Named Inventor     | P. VENETIANER <i>et al.</i> |
|   |   | Group Art Unit           | 2613                        |
|   |   | Examiner Name            | Not Yet Assigned            |
|   |   | Attorney Docket Number   | 37112-215811                |
| Sheet   | 2 | of                       | 3                           |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS |                        |   |                               |
|--|------------------------|---|-------------------------------|
| Examiner Initials *                                | Cite No. <sup>1</sup>  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup>                |
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| Examiner Signature                                 | /Tung Vo/ (03/31/2009) |   | Date Considered<br>03/31/2009 |

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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |        | Application Number       | 11/098,385                  |
|  |        | Filing Date              | April 5, 2005               |
|  |        | First Named Inventor     | P. VENETIANER <i>et al.</i> |
|  |        | Group Art Unit           | 2613                        |
|  |        | Examiner Name            | Not Yet Assigned            |
|  |        | Attorney Docket Number   | 37112-215811                |
| Sheet  | 3 of 3 |                          |                             |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS |                        |   |                            |
|--|------------------------|---|----------------------------|
| Examiner Initials *                                | Cite No. <sup>1</sup>  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup>             |
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| Examiner Signature                                 | /Tung Vo/ (03/31/2009) |   | Date Considered 03/31/2009 |

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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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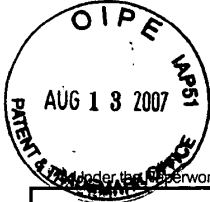


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| <h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
|  | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form   | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
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| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)   | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request   | <input type="checkbox"/> Terminal Disclaimer  | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request   | <input type="checkbox"/> Request for Refund   | Copy of International Search Report in PCT/US06/02700 and Written Opinion               |
| <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement and PTO/SB/08A | <input type="checkbox"/> CD, Number of CD(s) _____                                      |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)                                  | <input type="checkbox"/> Landscape Table on CD  |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application                           | Remarks   |   |
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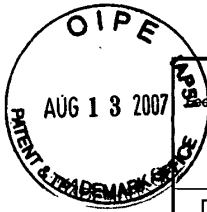
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  | <i>M. Zalevsky</i> |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | August 13, 2007    | Reg. No. | 53,825 |

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11098385 - GAU: 2621



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| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2007</b> |  | <b>Complete if Known</b> |                          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385 – Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter Venetianer         |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check  
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Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
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**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | _____          |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    | _____          |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    | _____          |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   | _____          |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     | _____          |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

Total Claims    Extra Claims    Fee (\$)    Fee Paid (\$)    Multiple Dependent Claims  
 \_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    Fee (\$)    Fee Paid (\$)  
 HP = highest number of total claims paid for, if greater than 20.

Indep. Claims    Extra Claims    Fee (\$)    Fee Paid (\$)  
 \_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
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**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

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|---------------------|----------------------|-----------------------------------|-----------------|
| <b>SUBMITTED BY</b> |                      |                                   |                 |
| Signature           | <i>M. V. Zalesky</i> | Registration No. (Attorney/Agent) | 53,825          |
| Name (Print/Type)   | Marina V. Zalesky    | Telephone                         | (202) 344-4975  |
|                     |                      | Date                              | August 13, 2007 |

#883046

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 08/13/2007

11098385 - GAU: 2621

Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Venetianer et al.

Application No: 11/098,385

Confirmation No: 8277

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES



Art Unit: 2621

Examiner: Mehrdad Dastouri

Atty. Docket No: 37112-215811

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TO THE  
INFORMATION DISCLOSURE STATEMENT FILED JUNE 29, 2007**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to International Search Report and Written Opinion in related International Patent Application No. PCT/US06/02700. It is respectfully requested that the information be expressly considered during the prosecution of this application.

The present Supplemental Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 08/13/2007  
Application No.: 11/098,385

11098385 - GAU: 2621  
Docket No.: 37112-215811

admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

We believe that no fees are required with the submission of this Supplemental Information Disclosure Statement. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: August 13, 2007

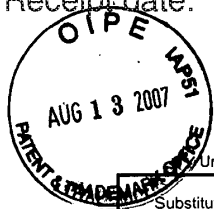
Respectfully submitted,

By M. Zalesky  
Marina V. Zalesky  
Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

DC2DOCS1-#883043-v1-Supplemental\_IDS\_37112-215811.DOC

-2-

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PTO/SB/08A/B (09-06)  
 Approved for use through 03/31/2007. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|   |  |   |    |                          |                          |              |
|---|--|---|----|--------------------------|--------------------------|--------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |  |   |    | <b>Complete if Known</b> |                          |              |
|   |  |   |    | Application Number       | 11/098,385 – Conf. #8277 |              |
| Sheet   |  | 1 | of | 1                        | Attorney Docket Number   | 37112-215811 |

| U.S. PATENT DOCUMENTS |                       |  |  |                             |   |   |
|-----------------------|-----------------------|--|--|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                             |   |   |
|                       | AA                    |  |  |                             |   |   |
|                       | AB                    |  |  |                             |   |   |

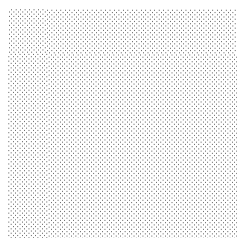
| FOREIGN PATENT DOCUMENTS |                       |   |  |                             |   |   |                |
|--------------------------|-----------------------|---|--|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                             |   |   |                |
|                          | BA                    |   |  |                             |   |   |                |
|                          | BB                    |   |  |                             |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |    |   |                |
|---------------------------------|-----------------------|---|----|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |    |   | T <sup>2</sup> |
|                                 |                       |   | CA | International Search Report and Written Opinion in PCT/US06/02700 |                |
|                                 | CB                    |   |    |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



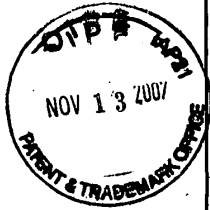
|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

#883041

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 11/13/2007

Used in Lieu of PTO/SB/08A/B (Based on PTO/SB/07 version) 1098385-CAU: 2621



|  |   |                          |                           |
|--|---|--------------------------|---------------------------|
| Substitute for form 1449/PTO                         |   | <b>Complete if Known</b> |                           |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> |   | Application Number       | 11/098,385 – Conf. # 8277 |
|  |   | Filing Date              | April 5, 2005             |
|  |   | First Named Inventor     | Peter L. Venetianer       |
|  |   | Art Unit                 | 2621                      |
|  |   | Examiner Name            | Mehrdad Dastouri          |
|  |   | Attorney Docket Number   | 37112-215811              |
| Sheet  | 1 | of                       | 1                         |

| U.S. PATENT DOCUMENTS |                       |  |                             |   |   |
|-----------------------|-----------------------|--|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |                             |   |   |
|                       | AA                    | 6,987,528                                | 01/17/06                    | Nagahisa  |   |
|                       | AB                    | 6,741,977                                | 05/25/04                    | Nagaya  |   |
|                       | AC                    | 6,542,840                                | 04/01/03                    | Shusaku   |   |
|                       | AD                    | 6,816,184                                | 11/2004                     | Brill et al.                                    |   |
|                       | AE                    | 7,023,469                                | 04/2006                     | Olson   |   |
|                       | AF                    | 6,924,801                                | 08/2005                     | Dorbie  |   |
|                       | AG                    | 6,844,818                                | 01/2005                     | Grech-Cini                                      |   |
|                       | AH                    | 2002/0024446                             | 02/2002                     | Grech-Cini                                      |   |
|                       | AI                    | 2002/0163521                             | 11/2002                     | Ellenby et al.                                  |   |
|                       | AJ                    | 6,088,484                                | 07/2000                     | Mead  |   |
|                       | AK                    | 2002/0051058                             | 05/2002                     | Ito et al.                                      |   |
|                       | AL                    | 6,829,371                                | 12/2004                     | Nichani et al.                                  |   |
|                       | AM                    | 6,404,455                                | 06/2002                     | Ito et al.                                      |   |
|                       | AN                    | 2003/0053659                             | 03/2003                     | Pavlidis et al.                                 |   |
|                       | AO                    | 4,737,847                                | 04/1988                     | Araki et al.                                    |   |
|                       | AP                    | 2002/0135483                             | 09/2002                     | Merheim et al.                                  |   |
|                       | AQ                    | 5,802,361                                | 09/1998                     | Wang et al.                                     |   |
|                       | AR                    | 5,515,453                                | 05/1996                     | Hennessey et al.                                |   |
|                       | AS                    | 4,908,704                                | 03/1990                     | Fujioka et al.                                  |   |
|                       | AT                    | 5,872,865                                | 02/1999                     | Normile et al.                                  |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                             |   |   |                |
|--------------------------|-----------------------|---|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>3</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                             |   |   |                |
|                          | BA                    | JP 10-048008  | 2/20/98                     | Omron   |   | ✓              |
|                          | BB                    | JP 2000-339923  | 8/12/2000                   | Mitsubishi                                      |   | ✓              |
|                          | BC                    | JP 2000-224542  | 11/08/2000                  | Hitachi   |   | ✓              |
|                          | BD                    | EP 1024666 A2   | 8/02/2000                   | Hitachi   |   |                |
|                          | BE                    | JP 2001-175868  | 6/29/01                     | NEC Corp  |   | ✓              |
|                          | BF                    | JP 2000-175174  | 6/23/2000                   | Mitsubishi                                      |   | ✓              |
|                          | BG                    | JP 2001-285681  | 10/12/2001                  | Matsushita                                      |   | ✓              |
|                          | BH                    | EP 1120746 A2   | 8/01/2001                   | Matsushita                                      |   |                |

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| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article ( when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | JP Office Action issued in PCT/US02/22688, along with an English translation  | 10/09/2007     |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |                        |                 |            |
|--------------------|------------------------|-----------------|------------|
| Examiner Signature | /Tung Vo/ (03/31/2009) | Date Considered | 03/31/2009 |
|--------------------|------------------------|-----------------|------------|

DC2/90 3209

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|  |   |                          |                          |
|--|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO   |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number       | 11/098,385 – Conf. #8277 |
|  |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
|  |   | Examiner Name            | Mehrdad Dastouri         |
|  |   | Attorney Docket Number   | 37112-215811             |
| Sheet  | 1 | of                       | 1                        |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | A1                       | 5,963,203 A                              | 10-1999                        | Goldberg et al.                                    |   |
|                       | A2                       | 6,031,573 A                              | 02-2000                        | MacCormack et al.                                  |   |
|                       | A3                       | 2001/0019357 A1                          | 09-2001                        | Ito et al.   |   |
|                       | A4                       | 2001/0033330 A1                          | 10-2001                        | Garoutte, Maurice V.                               |   |
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|                       | A11                      | 6,646,676 B1                             | 11-2003                        | DaGraca et al.                                     |   |
|                       | A12                      | 6,724,915 B1                             | 04-2004                        | Toklu et al.                                       |   |
|                       | A13                      | 2004/0161133 A1                          | 08-2004                        | Elazar et al.                                      |   |
|                       | A14                      | 2004/0240542 A1                          | 12-2004                        | Yeredor et al                                      |   |
|                       | A15                      | 6,865,580 B1                             | 03-2005                        | Bush, Eric N.                                      |   |
|                       | A16                      | 7,023,469 B1                             | 04-2006                        | Olson, Thomas J.                                   |   |

| FOREIGN PATENT DOCUMENTS |                          |   |                                   |  |   |                |
|--------------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                          |  |                |
|---------------------------------|--------------------------|--|----------------|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 |                          |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

DC2/993401

|                       |                        |                    |            |
|-----------------------|------------------------|--------------------|------------|
| Examiner<br>Signature | /Tung Vo/ (03/31/2009) | Date<br>Considered | 03/31/2009 |
|-----------------------|------------------------|--------------------|------------|

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./



Receipt date: 11/29/2005

11098385 - GAU: 2694



Please type a plus sign (+) inside this box →

PTO/SB/21 (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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|  |                               |                            |
|--|-------------------------------|----------------------------|
| <b>TRANSMITTAL FORM</b><br><i>(to be used for all correspondence after initial filing)</i> | <b>Application Number</b>     | 11/098,385                 |
|  | <b>Filing Date</b>            | April 5, 2005              |
|  | <b>First Named Inventor</b>   | Peter L. VENETIANER et al. |
|  | <b>Group Art Unit</b>         | 2613                       |
|  | <b>Examiner Name</b>          | Not yet assigned           |
| <b>Total Number of Pages in This Submission</b>  | <b>Attorney Docket Number</b> | 37112-215811               |

| ENCLOSURES (check all that apply)  |   |  |         |  |
|--|---|--|---------|--|
| <input type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Response<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><br><input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><p style="text-align: center;"><b>PTO/SB/08A with 1 Reference</b></p> |         |  |
| <table border="1" style="width: 100%;"> <tr> <td style="width: 15%; text-align: center;">Remarks</td> <td>A copy of JP-10-290449 and the English translation of the Abstract are attached.</td> </tr> </table>   |   |  | Remarks | A copy of JP-10-290449 and the English translation of the Abstract are attached. |
| Remarks  | A copy of JP-10-290449 and the English translation of the Abstract are attached.  |  |         |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |  |                                  |
|--|--|----------------------------------|
| Firm or Individual name                    | Venable<br>P.O. Box 34385<br>Washington, D.C. 20043-9998 | 26694<br>PATENT TRADEMARK OFFICE |
| Signature                                  | Jeffrey W. Gluck - Reg. No. 44,457                       |                                  |
| Date                                       | November 29, 2005  |                                  |

| CERTIFICATE OF MAILING  |  |      |
|---|--|------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450b on this date: <input style="width: 100px;" type="text"/> |  |      |
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SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, 22313-1450.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: 11/29/2005

11098385 - GAU: 2621



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

**Peter VENETIANER *et al.***

Application No: 11/098,385

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

*Confirmation No: 8277*

Art Unit: 2613

Examiner: Not yet assigned

Atty. Docket No: 37112-215811

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b).

In order to comply with applicant's duty of disclosure under 37 C.F.R. § 1.56, the U.S. Patent and Trademark Office is notified of the document listed on the attached Form PTO/SB/08A, and which the Examiner may deem relevant to patentability of the claims of the above-identified application. A copy of the cited reference is enclosed, including a translation of the abstract.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./

Receipt date: . 11/29/2005

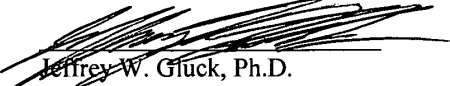
11098385 - GAU: 2621

Applicants: *Peter VENETIANER et al.*  
Application No.: 11/098,385

No fee is due for the submission of this Information Disclosure Statement. However, if any additional fees are deemed necessary, please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Respectfully submitted,

Date: 11/29/05

  
Jeffrey W. Gluck, Ph.D.  
Registration No. 44,457  
VENABLE LLP  
P.O. Box 34385  
Washington, D.C. 20043-9998

Telephone: (202) 344-4000  
Facsimile: (202) 344-8300

DC2DOCS1/701103

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V./



|   |   |    |   |  |  |
|---|---|----|---|--|--|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    | <b>Complete if Known</b><br>Application Number    11/098,385-Conf. #8277<br>Filing Date            April 5, 2005<br>First Named Inventor   Péter L. Venetianer<br>Art Unit                 2621<br>Examiner Name         M. Dastouri<br>Attorney Docket Number   37112-215811 |  |  |
| Sheet   | 1 | of | 1   |  |  |

| U.S. PATENT DOCUMENTS |                       |  |                  |   |   |
|-----------------------|-----------------------|--|------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
|                       | AA                    | US-20060232673                           | 10-19-2006       | Lipton et al.                                   |   |
|                       | AB                    | US-20070002141                           | 01-04-2007       | Lipton et al.                                   |   |
|                       | AC                    | US-2007/0127774                          | 06-07-2007       | Zhang et al.                                    |   |
|                       | AD                    | US-20070052803                           | 03-08-2007       | Chosak et al.                                   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                  |   |   |                |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |   |   |                |
|                          |                       |   |                  |   |   |                |
|                          |                       |   |                  |   |   |                |
|                          |                       |   |                  |   |   |                |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>7</sup> |
|                                 | CA                    | International Search Report for International Application No. PCT/US08/09073, dated November 3, 2008.   |                |
|                                 | CB                    | Written Opinion for International Patent Application No. PCT/US08/09073, dated November 3, 2008.  |                |

|                    |                 |  |
|--------------------|-----------------|--|
| Examiner Signature | Date Considered |  |
|--------------------|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

#1012430v1

**PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY

*PA. LAS*  
*WA. CDP*  
*DT. BMM*

JAN 06 11/15/09  
EIP DOCKET T. DC

To:  
KYLE D. PETAJA  
VENABLE LLP  
P.O. BOX 34385  
WASHINGTON, DC 20043-9998

**PCT**

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

|   |   |
|---|---|
| Date of mailing<br>(day/month/year)                   | <b>03 NOV 2008</b>  |
| Applicant's or agent's file reference<br>37112-257718 | <b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below                  |
| International application No.<br>PCT/US 08/09073      | International filing date<br>(day/month/year) 25 July 2008 (25.07.2008) |
| Applicant <b>OBJECTVIDEO, INC.</b>                    |   |

- The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.  
**Filing of amendments and statement under Article 19:**  
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):  
**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.  
**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35  
**For more detailed instructions, see the notes on the accompanying sheet.**
- The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
- With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
  - the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
  - no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
- 4. Reminders**  
 Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.  
 The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.  
 Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.  
 In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.  
 See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

|   |  |
|---|--|
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US<br>Commissioner for Patents<br>P.O. Box 1450, Alexandria, Virginia 22313-1450<br>Facsimile No. 571-273-3201 | Authorized officer:<br><br>Lee W. Young<br><br>PCT Helpdesk: 571-272-4300<br>PCT OSP: 571-272-7774 |
|---|--|

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

- Article 19*
- 2 MONTH REMINDER \_\_\_\_\_
  - 1 MONTH REMINDER \_\_\_\_\_
  - 2 WEEK REMINDER \_\_\_\_\_
  - 3 DAY REMINDER 1/17/09

**DATES DOCKETED**

*30 days / 3 mois lds due*

**DUE:** 2/5/09

**C/U:** 2/3/09

**PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY

**PCT**

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

|   |   |  |
|---|---|--|
| To:<br>KYLE D. PETAJA<br>VENABLE LLP<br>P.O. BOX 34385<br>WASHINGTON, DC 20043-9998 |   | Date of mailing<br>(day/month/year) <b>03 NOV 2008</b> |
| Applicant's or agent's file reference<br>37112-257718                               | <b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below                  |  |
| International application No.<br>PCT/US 08/09073                                    | International filing date<br>(day/month/year) 25 July 2008 (25.07.2008) |  |
| Applicant OBJECTVIDEO, INC.   |   |  |

1.  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**  
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

**For more detailed instructions,** see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3.  **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

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The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

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See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

|   |  |
|---|--|
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US<br>Commissioner for Patents<br>P.O. Box 1450, Alexandria, Virginia 22313-1450<br>Facsimile No. 571-273-3201 | Authorized officer:<br><br>Lee W. Young<br><br>PCT Helpdesk: 571-272-4300<br>PCT OSP: 571-272-7774 |
|---|--|

Form PCT/ISA/220 (January 2004)

*(See notes on accompanying sheet)*

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |  |   |
|---|--|---|
| Applicant's or agent's file reference<br>37112-257718 | <b>FOR FURTHER ACTION</b>  | see Form PCT/ISA/220<br>as well as, where applicable, item 5 below.             |
| International application No.<br>PCT/US 08/09073      | International filing date ( <i>day/month/year</i> )<br>25 July 2008 (25.07.2008) | (Earliest) Priority Date ( <i>day/month/year</i> )<br>26 July 2007 (26.07.2007) |
| Applicant<br>OBJECTVIDEO, INC.                        |  |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of   2   sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

the international application in the language in which it was filed.

a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b.  This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (see Box No. II).

3.  **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No.   1  

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (April 2007)



INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 08/09073

| <p>A. CLASSIFICATION OF SUBJECT MATTER<br/>IPC(8) - H04N 7/18 (2008.04)<br/>USPC - 348/143<br/>According to International Patent Classification (IPC) or to both national classification and IPC</p>   |  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
|--|--|--|--|---|---|--|---|--|--|---|--|---|---|------|---|---|------|
| <p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols)<br/>IPC(8): H04N 7/18 (2008.04)<br/>USPC: 348/143</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br/>IPC(8): H04N 7/18 (2008.04)<br/>USPC: 382/103, 143</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br/>PubWest (USPB, USPT, USOC, EPAB, JPAB), DialogPro, GoogleScholar; video surveillance sensor processing unit rule detector creating event output trackable object observing person vehicle watercraft LED emitter audio RF IR configuration pattern tripwire AOI direction speed mode input default activity type time date calibrate</p>  |  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| <p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 2007/0052803 A1 (Chosak et al.), 08 March 2007 (08.03.2007), para [0041]-[0044]; [0047]-[0054]; [0078]; [0080]</td> <td>1-27</td> </tr> <tr> <td>Y</td> <td>US 2007/0127774 A1 (Zhang et al.), 07 June 2007 (07.06.2007), para [0078]-[0082]; [0092]; [0096]; [0112]; [0164]; [0166]; [0171]-[0173]; [0175]</td> <td>1-27</td> </tr> <tr> <td>A</td> <td>US 2007/0002141 A1 (Lipton et al.), 04 January 2007 (04.01.2007), entire document</td> <td>1-27</td> </tr> <tr> <td>A</td> <td>US 2006/0232673 A1 (Lipton et al.), 19 October 2006 (19.10.2006), entire document</td> <td>1-27</td> </tr> </tbody> </table>   |  |  | Category*  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.   | Y  | US 2007/0052803 A1 (Chosak et al.), 08 March 2007 (08.03.2007), para [0041]-[0044]; [0047]-[0054]; [0078]; [0080]   | 1-27   | Y  | US 2007/0127774 A1 (Zhang et al.), 07 June 2007 (07.06.2007), para [0078]-[0082]; [0092]; [0096]; [0112]; [0164]; [0166]; [0171]-[0173]; [0175] | 1-27   | A | US 2007/0002141 A1 (Lipton et al.), 04 January 2007 (04.01.2007), entire document | 1-27 | A | US 2006/0232673 A1 (Lipton et al.), 19 October 2006 (19.10.2006), entire document | 1-27 |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| Y  | US 2007/0052803 A1 (Chosak et al.), 08 March 2007 (08.03.2007), para [0041]-[0044]; [0047]-[0054]; [0078]; [0080]  | 1-27   |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| Y  | US 2007/0127774 A1 (Zhang et al.), 07 June 2007 (07.06.2007), para [0078]-[0082]; [0092]; [0096]; [0112]; [0164]; [0166]; [0171]-[0173]; [0175]  | 1-27   |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| A  | US 2007/0002141 A1 (Lipton et al.), 04 January 2007 (04.01.2007), entire document  | 1-27   |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| A  | US 2006/0232673 A1 (Lipton et al.), 19 October 2006 (19.10.2006), entire document  | 1-27   |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| <p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>  |  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| <p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table> |  |  | "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | "E" earlier application or patent but published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art | "O" document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family   | "P" document published prior to the international filing date but later than the priority date claimed |   |   |      |   |   |      |
| "A" document defining the general state of the art which is not considered to be of particular relevance   | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| "E" earlier application or patent but published on or after the international filing date  | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| "O" document referring to an oral disclosure, use, exhibition or other means   | "&" document member of the same patent family  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| "P" document published prior to the international filing date but later than the priority date claimed   |  |  |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| <p>Date of the actual completion of the international search<br/>11 October 2008 (11.10.2008)</p>  |  | <p>Date of mailing of the international search report<br/><b>03 NOV 2008</b></p>                     |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |
| <p>Name and mailing address of the ISA/US<br/>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents<br/>P.O. Box 1450, Alexandria, Virginia 22313-1450<br/>Facsimile No. 571-273-3201</p>  |  | <p>Authorized officer:<br/>Lee W. Young<br/>PCT Helpdesk: 571-272-4300<br/>PCT OSP: 571-272-7774</p> |  |   |   |  |   |  |  |   |  |   |   |      |   |   |      |

Form PCT/ISA/210 (second sheet) (April 2007)

**PATENT COOPERATION TREATY**

From the  
INTERNATIONAL SEARCHING AUTHORITY

**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:  
KYLE D. PETAJA  
VENABLE LLP  
P.O. BOX 34385  
WASHINGTON, DC 20043-9998

Date of mailing  
(day/month/year) **03 NOV 2008**

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br>37112-257718   |   | <b>FOR FURTHER ACTION</b><br>See paragraph 2 below          |
| International application No.<br>PCT/US 08/09073  | International filing date (day/month/year)<br>25 July 2008 (25.07.2008) | Priority date (day/month/year)<br>26 July 2007 (26.07.2007) |
| International Patent Classification (IPC) or both national classification and IPC<br>IPC(8) - H04N 7/18 (2008.04)<br>USPC - 348/143 |   |   |
| Applicant OBJECTVIDEO, INC.   |   |   |

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

|   |  |  |
|---|--|--|
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US<br>Commissioner for Patents<br>P.O. Box 1450, Alexandria, Virginia 22313-1450<br>Facsimile No. 571-273-3201 | Date of completion of this opinion<br>22 October 2008 (22.10.2008) | Authorized officer:<br>Lee W. Young<br><br>PCT Helpdesk: 571-272-4300<br>PCT OSP: 571-272-7774 |
|---|--|--|

Form PCT/ISA/237 (cover sheet) (April 2007)

*Written Opinion*

2 MONTH REMINDER \_\_\_\_\_

1 MONTH REMINDER \_\_\_\_\_

2 WEEK REMINDER 1/20/09

3 DAY REMINDER 1/31/09

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 08/09073

**Box No. I**      **Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of:
  - the international application in the language in which it was filed.
  - a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
  
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))
  
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:
  - a. type of material
    - a sequence listing
    - table(s) related to the sequence listing
  
  - b. format of material
    - on paper
    - in electronic form
  
  - c. time of filing/furnishing
    - contained in the international application as filed
    - filed together with the international application in electronic form
    - furnished subsequently to this Authority for the purposes of search
  
4.  In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
  
5. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 08/09073

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

|                               |        |      |     |
|-------------------------------|--------|------|-----|
| Novelty (N)                   | Claims | 1-27 | YES |
|                               | Claims | None | NO  |
| Inventive step (IS)           | Claims | None | YES |
|                               | Claims | 1-27 | NO  |
| Industrial applicability (IA) | Claims | 1-27 | YES |
|                               | Claims | None | NO  |

2. Citations and explanations:

Claims 1-27 lack an inventive step under PCT Article 33(3) as being obvious over US 2007/0052803 A1 to Chosak et al. (hereinafter 'Chosak') in view of US 2007/0127774 A1 to Zhang et al. (hereinafter 'Zhang').

Regarding claim 1, Chosak teaches a video surveillance system comprising: a video sensor for receiving a video (see para [0041]); a processing unit for processing the received video (see para [0042]); a rule detector for creating a rule from the processed video (see para [0042]); and output means for outputting information based on the detected event of interest (see para [0043]-[0044]; [0051]-[0054]), but does not specifically teach an event detector for detecting an event of interest based on the rule. Zhang teaches a target detection and tracking system comprising an event detector for detecting an event of interest based on the rule (see para [0078]-[0081]; [0164]; [0166]). It would have been obvious to one of ordinary skill in the art to utilize the system comprising an event detector for detecting an event of interest based on the rule of Zhang and to combine it with the system of Chosak because it would provide configurable event detection and tracking, thereby increasing the robustness and cost-effectiveness of the system.

Regarding claim 2, Chosak in view of Zhang teaches the system of claim 1. Chosak further teaches wherein the processing unit processes the received video to detect at least one trackable object (see para [0047]-[0050]).

Regarding claim 3, Chosak in view of Zhang teaches the system of claim 2. Zhang further teaches wherein the rule detector creates the rule by observing the trackable object (see para [0080]-[0082]; [0092]; [0096]; [0112]).

Regarding claim 4, Chosak in view of Zhang teaches the system of claim 2. Chosak further teaches wherein the trackable object is at least one of: a person; a vehicle; a watercraft in a water scene; a light emitting diode (LED) emitter; an audio emitter; a radio frequency (RF) emitter; an infrared (IR) device; a prescribed configuration pattern; or an object observable by the video sensor (see para [0050]).

Regarding claim 5, Chosak in view of Zhang teaches the system of claim 1. Chosak further teaches wherein the rule detector creates at least one of: a tripwire, an area of interest (AOI), a direction, or a speed (see para [0053]).

Regarding claim 6, Chosak in view of Zhang teaches the system of claim 1. Chosak further teaches wherein the rule detector operates when the system is in a configuration mode (see para [0052]; [0078]; [0080]).

Regarding claim 7, Chosak in view of Zhang teaches the system of claim 6. Chosak further teaches a system further comprising: an input mechanism, wherein the system is placed in the configuration mode with the input mechanism (see para [0052]; [0078]; [0080]).

Regarding claim 8, Chosak in view of Zhang teaches the system of claim 7. Zhang further teaches wherein the input mechanism is a component of the video sensor (see para [0171]-[0173]; [0175]).

Regarding claim 9, Chosak in view of Zhang teaches the system of claim 1. Chosak further teaches wherein the rule detector creates a default rule (see para [0052]-[0053]; [0078]).

Regarding claim 10, Chosak in view of Zhang teaches the system of claim 1. Zhang further teaches wherein the rule detector creates a rule from the processed video and at least one user input (see para [0171]-[0173]; [0175]).

Regarding claim 11, Chosak in view of Zhang teaches the system of claim 10. Chosak further teaches wherein the at least one user input includes at least one of: an activity type, an object type, a time, or a date (see para [0052]-[0053]; [0078]).

Regarding claim 12, Chosak teaches an apparatus for video surveillance configured to perform a method comprising: receiving a video (see para [0041]); processing the received video (see para [0042]); creating a rule from the processed video (see para [0042]); and outputting information based on the detected event of interest (see para [0043]-[0044]; [0051]-[0054]), but does not specifically teach detecting an event of interest in the video based on the rule. Zhang teaches an apparatus for target detection and tracking comprising detecting an event of interest in the video based on the rule (see para [0078]-[0081]; [0164]; [0166]). It would have been obvious to one of ordinary skill in the art to utilize the apparatus comprising detecting an event of interest in the video based on the rule of Zhang and to combine it with the apparatus of Chosak because it would provide configurable event detection and tracking, thereby increasing the adaptability and cost-effectiveness of the apparatus.

--- continued in Supplemental Box ---

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 08/09073

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box No. V

2. Citations and explanations:

Regarding claim 13, Chosak in view of Zhang teaches the apparatus of claim 12. Chosak further teaches wherein processing the received video includes detecting a trackable object in the received video (see para [0047]-[0050]).

Regarding claim 14, Chosak in view of Zhang teaches the apparatus of claim 13. Zhang further teaches wherein creating a rule comprises: observing the trackable object and creating the rule based on the observation (see para [0080]-[0082]; [0092]; [0096]; [0112]).

Regarding claim 15, Chosak in view of Zhang teaches the apparatus of claim 13. Chosak further teaches wherein tracking the trackable object comprises tracking at least one of: a person; a vehicle; a watercraft in a water scene; a light emitting diode (LED) emitter; an audio emitter; a radio frequency (RF) emitter; an infrared (IR) device; a prescribed configuration pattern; or an object observable by a video sensor (see para [0050]).

Regarding claim 16, Chosak in view of Zhang teaches the apparatus of claim 12. Chosak further teaches wherein creating a rule comprises: creating at least one of a tripwire, an area of interest (AOI), a direction, or a speed (see para [0053]).

Regarding claim 17, Chosak in view of Zhang teaches the apparatus of claim 12. Chosak further teaches wherein the apparatus is configured to be placed in a configuration mode prior to processing the received video and creating the rule (see para [0052]; [0078]; [0080]).

Regarding claim 18, Chosak in view of Zhang teaches the apparatus of claim 12. Chosak further teaches wherein creating a rule comprises creating a default rule (see para [0052]-[0053]; [0078]).

Regarding claim 19, Chosak in view of Zhang teaches the apparatus of claim 12. Zhang further teaches wherein creating a rule comprises creating a rule from the processed video and at least one user input (see para [0171]-[0173]; [0175]).

Regarding claim 20, Chosak in view of Zhang teaches the apparatus of claim 19. Chosak further teaches wherein the at least one user input includes at least one of: an activity type, an object type, a time, or a date (see para [0052]-[0053]; [0078]).

Regarding claim 21, Chosak teaches a method of rule detection in a video surveillance system comprising: receiving a video (see para [0041]); processing the received video (see para [0042]); creating a rule from the processed video (see para [0042]); and outputting information based on the detected event of interest (see para [0043]-[0044]; [0051]-[0054]), but does not specifically teach detecting an event of interest in the video based on the rule. Zhang teaches a method for target detection and tracking comprising detecting an event of interest in the video based on the rule (see para [0078]-[0081]; [0164]; [0166]). It would have been obvious to one of ordinary skill in the art to utilize the method comprising detecting an event of interest in the video based on the rule of Zhang and to combine it with the method of Chosak because it would provide configurable event detection and tracking, thereby increasing the robustness and cost-effectiveness of the method.

Regarding claim 22, Chosak in view of Zhang teaches the method of claim 21. Chosak further teaches a method further comprising: entering a configuration mode prior to processing the received video (see para [0052]; [0078]; [0080]); detecting and observing a trackable object (see para [0047]-[0050]), but does not specifically teach and creating the rule based on the observed trackable object. Zhang further teaches creating the rule based on the observed trackable object (see para [0080]-[0082]; [0092]; [0096]; [0112]).

Regarding claim 23, Chosak in view of Zhang teaches the method of claim 22. Chosak further teaches wherein detecting the trackable object comprises detecting at least one of: a person; a vehicle; a watercraft in a water scene; a light emitting diode (LED) emitter; an audio emitter; a radio frequency (RF) emitter; an infrared (IR) device; a prescribed configuration pattern; or an object observable by a video sensor (see para [0050]).

Regarding claim 24, Chosak in view of Zhang teaches the method of claim 21. Chosak further teaches wherein creating the rule comprises: creating at least one of a tripwire, an area of interest (AOI), a direction, or a speed (see para [0053]).

Regarding claim 25, Chosak in view of Zhang teaches the method of claim 21. Chosak further teaches wherein creating a rule comprises creating a default rule (see para [0052]-[0053]; [0078]).

Regarding claim 26, Chosak in view of Zhang teaches the method of claim 21. Zhang further teaches wherein creating a rule comprises creating a rule from the processed video and at least one user input (see para [0171]-[0173]; [0175]).

Regarding claim 27, Chosak in view of Zhang teaches the method of claim 26. Chosak further teaches wherein the at least one user input includes at least one of: an activity type, an object type, a time, or a date (see para [0052]-[0053]; [0078]).

Claims 1-27 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 4727084  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 26694  |
| <b>Filer:</b>                               | Kyle D. Pataja/Tracie Xhema                          |
| <b>Filer Authorized By:</b>                 | Kyle D. Pataja                                       |
| <b>Attorney Docket Number:</b>              | 37112-215811   |
| <b>Receipt Date:</b>                        | 03-FEB-2009  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 16:48:28   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name  | File Size(Bytes)/<br>Message Digest                             | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|------------|---|------------------|------------------|
| 1               |                      | 215811.PDF | 158604<br><small>67ec09a0ce5b3f9a1b8fc7d03e9cb918a59a7b</small> | yes              | 3                |

| Multipart Description/PDF files in .zip description   |               |         |  |     |   |
|---|---------------|---------|--|-----|---|
| Document Description  |               |         | Start                                    | End |   |
| Information Disclosure Statement Letter   |               |         | 1  | 2   |   |
| Information Disclosure Statement (IDS) Filed (SB/08)  |               |         | 3  | 3   |   |
| <b>Warnings:</b>  |               |         |  |     |   |
| <b>Information:</b>   |               |         |  |     |   |
| 2   | NPL Documents | isr.PDF | 301330                                   | no  | 4 |
|   |               |         | 5d1d5314ead7eddc11d50624cd6644e0ef4e52f5 |     |   |
| <b>Warnings:</b>  |               |         |  |     |   |
| <b>Information:</b>   |               |         |  |     |   |
| 3   | NPL Documents | wo.PDF  | 286958                                   | no  | 4 |
|   |               |         | 08eb3c8b5d9048732c3f580e948f3088710e0daa |     |   |
| <b>Warnings:</b>  |               |         |  |     |   |
| <b>Information:</b>   |               |         |  |     |   |
| <b>Total Files Size (in bytes):</b>   |               |         | 746892                                   |     |   |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |               |         |  |     |   |

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: M. Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM

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Customer No:

**26694**

PATENT TRADEMARK OFFICE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Madam:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).



A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of an International Search Report and Written Opinion (copies of which are attached) from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811. A duplicate copy of this paper is enclosed.

Dated: February 3, 2009

Respectfully submitted,

By 

Michael A. Sartori, Ph.D.

Registration No.: 41,289

Kyle D. Petaja

Registration No.: 60,309

VENABLE LLP

P.O. Box 34385

Washington, DC 20043-9998

(202) 344-4000

(202) 344-8300 (Fax)

Attorney/Agent For Applicant

#1012428v1

Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

Application No.: 11/098,385

Docket No.: 37112-215811

Documents **A1-A16** were cited in related US Appl. No. 09/987,707.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents. .

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: November 20, 2008

Respectfully submitted,

By

  
\_\_\_\_\_  
Kyle D. Petaja

Registration No.: 60,309

VENABLE LLP

P.O. Box 34385

Washington, DC 20043-9998

(202) 344-4000

(202) 344-8300 (Fax)

Attorney/Agent For Applicant

DC2/993402

|   |   |    |   |                          |                          |
|---|---|----|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                          |
|   |   |    |   | Application Number       | 11/098,385 – Conf. #8277 |
|   |   |    |   | Filing Date              | April 5, 2005            |
|   |   |    |   | First Named Inventor     | Peter Venetianer         |
|   |   |    |   | Art Unit                 | 2621                     |
|   |   |    |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet   | 1 | of | 1 | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |    |                             |   |   |
|-----------------------|-----------------------|--|----|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |    | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |    |                             |   |   |
|                       | A1                    | 5,963,203                                | A  | 10-1999                     | Goldberg et al.                                 |   |
|                       | A2                    | 6,031,573                                | A  | 02-2000                     | MacCormack et al.                               |   |
|                       | A3                    | 2001/0019357                             | A1 | 09-2001                     | Ito et al.                                      |   |
|                       | A4                    | 2001/0033330                             | A1 | 10-2001                     | Garoutte, Maurice V.                            |   |
|                       | A5                    | 2001/0035907                             | A1 | 11-2001                     | Broemmelsiek, Raymond M                         |   |
|                       | A6                    | 2002/0008758                             | A1 | 01-2002                     | Broemmelsiek et al.                             |   |
|                       | A7                    | 2002/0095490                             | A1 | 07-2002                     | Barker et al.                                   |   |
|                       | A8                    | 6,525,658                                | B2 | 02-2003                     | Streetman et al.                                |   |
|                       | A9                    | 6,570,608                                | B1 | 05-2003                     | Tseng, Christopher                              |   |
|                       | A10                   | 6,573,907                                | B1 | 06-2003                     | Madrane, Nabil                                  |   |
|                       | A11                   | 6,646,676                                | B1 | 11-2003                     | DaGraca et al.                                  |   |
|                       | A12                   | 6,724,915                                | B1 | 04-2004                     | Toklu et al.                                    |   |
|                       | A13                   | 2004/0161133                             | A1 | 08-2004                     | Elazar et al.                                   |   |
|                       | A14                   | 2004/0240542                             | A1 | 12-2004                     | Yeredor et al                                   |   |
|                       | A15                   | 6,865,580                                | B1 | 03-2005                     | Bush, Eric N.                                   |   |
|                       | A16                   | 7,023,469                                | B1 | 04-2006                     | Olson, Thomas J.                                |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                             |   |   |                |
|--------------------------|-----------------------|---|--|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                             |   |   |                |
|                          |                       |   |  |                             |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 |                       |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

DC2/993401

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

## Electronic Acknowledgement Receipt

|   |  |
|---|--|
| <b>EFS ID:</b>                              | 4328596  |
| <b>Application Number:</b>                  | 11098385   |
| <b>International Application Number:</b>    |  |
| <b>Confirmation Number:</b>                 | 8277   |
| <b>Title of Invention:</b>                  | Video surveillance system employing video primitives |
| <b>First Named Inventor/Applicant Name:</b> | Peter L. Venetianer                                  |
| <b>Customer Number:</b>                     | 26694  |
| <b>Filer:</b>                               | Kyle D. Pataja/Tracie Xhema                          |
| <b>Filer Authorized By:</b>                 | Kyle D. Pataja                                       |
| <b>Attorney Docket Number:</b>              | 37112-215811   |
| <b>Receipt Date:</b>                        | 20-NOV-2008  |
| <b>Filing Date:</b>                         | 05-APR-2005  |
| <b>Time Stamp:</b>                          | 19:09:37   |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name     | File Size(Bytes)/<br>Message Digest                                    | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|---------------|--|------------------|------------------|
| 1               |                      | 215811ids.pdf | 106690<br><small>24b7dab7025264df1d337f219848cf96dccc<br/>e901</small> | yes              | 3                |

| Multipart Description/PDF files in .zip description   |       |        |
|---|-------|--------|
| Document Description  | Start | End    |
| Information Disclosure Statement Letter   | 1     | 2      |
| Information Disclosure Statement (IDS) Filed (SB/08)  | 3     | 3      |
| <b>Warnings:</b>  |       |        |
| <b>Information:</b>   |       |        |
| <b>Total Files Size (in bytes):</b>   |       | 106690 |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |       |        |



IFW

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|  |                        |                        |
|--|------------------------|------------------------|
| <h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385-Conf. #8277 |
|  | Filing Date            | April 5, 2005          |
|  | First Named Inventor   | Peter L. Venetianer    |
|  | Art Unit               | 2621                   |
|  | Examiner Name          | M. Dastouri            |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811           |

| ENCLOSURES (Check all that apply)  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form   | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply   | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)   | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request   | <input type="checkbox"/> Terminal Disclaimer  | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request   | <input type="checkbox"/> Request for Refund   |   |
| <input checked="" type="checkbox"/> Information Disclosure Statement with PTO/SB/08 and copies of 5 cited references | <input type="checkbox"/> CD, Number of CD(s) _____                                      |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)  | <input type="checkbox"/> Landscape Table on CD  |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application   | Remarks   |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53  |   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                |          |        |
|--|----------------|----------|--------|
| Firm Name                                  | VENABLE LLP    |          |        |
| Signature                                  |                |          |        |
| Printed name                               | Kyle D. Petaja |          |        |
| Date                                       | 6/9/08         | Reg. No. | 60,309 |

DC2/959640



PTO/SB/17 (10-07)  
 Approved for use through 06/30/2010. OMB 0651-0032  
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
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Effective on 12/08/2004.  
 Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL  
 For FY 2008**

Applicant claims small entity status. See 37 CFR 1.27

| TOTAL AMOUNT OF PAYMENT |  | (\$) |  | 0.00 |  |
|-------------------------|--|------|--|------|--|
|                         |  |      |  |      |  |

| Complete if Known    |                        |
|----------------------|------------------------|
| Application Number   | 11/098,385-Conf. #8277 |
| Filing Date          | April 5, 2005          |
| First Named Inventor | Peter L. Venetianer    |
| Examiner Name        | M. Dastouri            |
| Art Unit             | 2621                   |
| Attorney Docket No.  | 37112-215811           |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 310         | 155                   | 510         | 255                   | 210              | 105                   |                |
| Design           | 210         | 105                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 210         | 105                   | 310         | 155                   | 160              | 80                    |                |
| Reissue          | 310         | 155                   | 510         | 255                   | 620              | 310                   |                |
| Provisional      | 210         | 105                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 210      | 105                   |
| Multiple dependent claims                          | 370      | 185                   |

Total Claims    Extra Claims    Fee (\$)    Fee Paid (\$)    Multiple Dependent Claims  
 \_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    Fee (\$)    Fee Paid (\$)  
 HP = highest number of total claims paid for, if greater than 20.

Indep. Claims    Extra Claims    Fee (\$)    Fee Paid (\$)  
 \_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof                | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|---|----------|---------------|
| _____        | _____        | _____ / 50 = _____ (round up to a whole number) x _____ = _____ |          |               |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                |                                   |        |           |                |
|-------------------|----------------|-----------------------------------|--------|-----------|----------------|
| Signature         |                | Registration No. (Attorney/Agent) | 60,309 | Telephone | (202) 344-4457 |
| Name (Print/Type) | Kyle D. Petaja | Date                              | 6/9/08 |           |                |

DC2/959639





Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom.

The Examiner is advised that the present application is related to pending U.S. Application Nos. 09/987,707, 11/057,154, 11/167,218, 11/300,581 and 11/828,842. Documents **A1-A22**, **C1-C2** and **C5** were previously cited in one or more of the above-listed U.S. Applications. Documents **C3-C4** are International Search Reports that were issued in PCT Applications that share priority with the above-listed U.S. Applications. Copies of documents **C1-C5** are enclosed.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

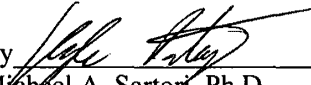
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: 6/9/08

Respectfully submitted,

By   
Michael A. Sartori, Ph.D.  
Registration No.: 41,289  
Kyle D. Petaja  
Registration No.: 60,309  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

DC2/959634



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|  |   |                          |                          |
|--|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | <i>Complete if Known</i> |                          |
|  |   | Application Number       | 11/098,385 – Conf. #8277 |
|  |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
| Sheet  | 1 | of                       | 2                        |
|  |   | Examiner Name            | Mehrdad Dastouri         |
|  |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |                               |            |                                |   |   |
|-----------------------|-----------------------|-------------------------------|------------|--------------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number               |            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> | (if known) |                                |   |   |
|                       | A1                    | 4,249,207                     |            | 2/3/1981                       | Harman et al.                                   |   |
|                       | A2                    | 4,257,063                     |            | 3/17/1981                      | Loughry et al.                                  |   |
|                       | A3                    | 5,926,210                     |            | 7/20/1999                      | Hackett et al.                                  |   |
|                       | A4                    | 5,963,202                     |            | 10/5/1999                      | Polish  |   |
|                       | A5                    | 6,069,653                     |            | 5/30/2000                      | Hudson et al.                                   |   |
|                       | A6                    | 6,297,844                     |            | 10/2/2001                      | Schatz et al.                                   |   |
|                       | A7                    | 6,570,608                     |            | May-03                         | Tsergn  |   |
|                       | A8                    | 6,573,907                     |            | 6/3/2003                       | Madrane et al.                                  |   |
|                       | A9                    | 6,696,945                     |            | 2/24/2004                      | Venetianer et al.                               |   |
|                       | A10                   | 6,727,938                     |            | 4/27/2004                      | Randall   |   |
|                       | A11                   | 6,738,424                     |            | 5/18/2004                      | Allmen et al.                                   |   |
|                       | A12                   | 6,954,498                     |            | 10/11/2005                     | Lipton  |   |
|                       | A13                   | 6,987,883                     |            | 1/17/2006                      | Lipton et al.                                   |   |
|                       | A14                   | 2002/0008758                  |            | 1/24/2002                      | Broemmelsiek et al.                             |   |
|                       | A15                   | 2002/0082769                  |            | 6/27/2002                      | Church et al.                                   |   |
|                       | A16                   | 2005/0146605                  |            | 7/7/2005                       | Lipton et al.                                   |   |
|                       | A17                   | 2005/0157169                  |            | 7/21/2005                      | Brodsky et al.                                  |   |
|                       | A18                   | 2005/0162515                  |            | 7/28/2005                      | Venetianer et al.                               |   |
|                       | A19                   | 2005/0168574                  |            | 8/4/2005                       | Lipton et al.                                   |   |
|                       | A20                   | 2007/0013776                  |            | 1/18/2007                      | Venetianer et al.                               |   |
|                       | A21                   | 2007/0127774                  |            | 6/7/2007                       | Zhang et al.                                    |   |
|                       | A22                   | 2008/0100704A1                |            | 5/1/2008                       | Venetianer et al.                               |   |

| FOREIGN PATENT DOCUMENTS |                       |                           |   |                                |   |   |                |
|--------------------------|-----------------------|---------------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |   | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> | Number <sup>4</sup> -Kind Code <sup>5</sup> |                                |   |   |                |
|                          |                       |                           |   |                                |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

|   |   |                          |                          |                        |              |
|---|---|--------------------------|--------------------------|------------------------|--------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   | <i>Complete if Known</i> |                          |                        |              |
|   |   | Application Number       | 11/098,385 – Conf. #8277 |                        |              |
|   |   | Filing Date              | April 5, 2005            |                        |              |
|   |   | First Named Inventor     | Peter Venetianer         |                        |              |
|   |   | Art Unit                 | 2621                     |                        |              |
|   |   | Examiner Name            | Mehrdad Dastouri         |                        |              |
| Sheet   | 2 | of                       | 2                        | Attorney Docket Number | 37112-215811 |

| NON PATENT LITERATURE DOCUMENTS |                          |  |                          |
|---------------------------------|--------------------------|--|--------------------------|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,<br>magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city<br>and/or country where published. | T <sup>2</sup>           |
|                                 | C1                       | CN Office Action for CN 02822772.7 on October 14, 2005 in English.   | <input type="checkbox"/> |
|                                 | C2                       | International Search Report issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007  | <input type="checkbox"/> |
|                                 | C3                       | International Search Report issued for PCT Application No. PCT/US01/32614 on May 6, 2002.  | <input type="checkbox"/> |
|                                 | C4                       | International Search Report issued for PCT Application No. PCT/US02/22688 on December 11, 2002.  | <input type="checkbox"/> |
|                                 | C5                       | Written Opinion of the International Searching Authority issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007   | <input type="checkbox"/> |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

DC2/958994

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

*Jan*



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|  |                        |                        |
|--|------------------------|------------------------|
| <b>TRANSMITTAL FORM</b><br><br><small>(to be used for all correspondence after Initial filing)</small> | Application Number     | 11/098,385-Conf. #8277 |
|  | Filing Date            | April 5, 2005          |
|  | First Named Inventor   | Peter L. Venetianer    |
|  | Art Unit               | 2621                   |
|  | Examiner Name          | M. Dastouri            |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811           |

| ENCLOSURES (Check all that apply)   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement with PTO/SB/08 and copies of 2 cited references<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks   |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                                 |          |        |
|--|---------------------------------|----------|--------|
| Firm Name                                  | VENABLE LLP                     |          |        |
| Signature                                  | <i>Michael A. Sartori</i> 42709 |          |        |
| Printed name                               | Michael A. Sartori, Ph.D.       |          |        |
| Date                                       | 4/11/08                         | Reg. No. | 41,289 |

DC2/944423



PTO/SB/17 (10-07)

Approved for use through 06/30/2010. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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|   |  |                          |                        |
|---|--|--------------------------|------------------------|
| <p>Effective on 12/08/2004.<br/>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</p> <h2 style="text-align: center;">FEE TRANSMITTAL</h2> <h3 style="text-align: center;">For FY 2008</h3> |  | <b>Complete if Known</b> |                        |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385-Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Filing Date              | April 5, 2005          |
|   |  | First Named Inventor     | Peter L. Venetianer    |
|   |  | Examiner Name            | M. Dastouri            |
|   |  | Art Unit                 | 2621                   |
|   |  | Attorney Docket No.      | 37112-215811           |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 310         | 155                   | 510         | 255                   | 210              | 105                   |                |
| Design           | 210         | 105                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 210         | 105                   | 310         | 155                   | 160              | 80                    |                |
| Reissue          | 310         | 155                   | 510         | 255                   | 620              | 310                   |                |
| Provisional      | 210         | 105                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 210      | 105                   |
| Multiple dependent claims                          | 370      | 185                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$)              | Fee Paid (\$) |
|--------------|--------------|--|-----------------------|---------------|
| _____        | _____        | _____ / 50 = _____ (round up to a whole number)  | _____ x _____ = _____ | _____         |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                           |                                   |         |           |                |
|-------------------|---------------------------|-----------------------------------|---------|-----------|----------------|
| Signature         |                           | Registration No. (Attorney/Agent) | 41,289  | Telephone | (202) 344-4002 |
| Name (Print/Type) | Michael A. Sartori, Ph.D. | Date                              | 7/11/05 |           |                |

DC2/944422



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom. A copy of document **B1** and **C1** is enclosed.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

The references cited here were first cited in a Notification issued on February 21, 2008 in counterpart Israeli Application No. 161777. A copy of the Notification, and an English translation thereof, are enclosed.

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: 4/11/08

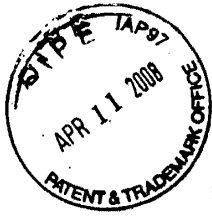
Respectfully submitted,

By *Michael A. Sartori* 42709  
for Michael A. Sartori, Ph.D.

DC2/944387

Registration No.: 41,289  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant





Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO  |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   | Application Number       | 11/098,385 – Conf. #8277 |
|   |   | Filing Date              | April 5, 2005            |
|   |   | First Named Inventor     | Peter Venetianer         |
|   |   | Art Unit                 | 2621                     |
|   |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet   | 1 | of                       | 1                        |
|   |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |  |                                |   |   |
|-----------------------|-----------------------|--|--|--------------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                                |   |   |
|                       | A1                    | 6,211,907                                |  | 04-03-2001                     | Scaman et al.                                   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |          |                                |   |   |                |
|--------------------------|-----------------------|---|----------|--------------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |          |                                |   |   |                |
|                          | B1                    | WO  | 01/62005 | 08-23-2001                     | Wilson  |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |  |    |  |                |
|---------------------------------|-----------------------|--|----|--|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |    |  | T <sup>2</sup> |
|                                 |                       |  | C1 | Notification for IL App. No. 161777 issued February 21, 2008 and English translation thereof |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

DC2/944359

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom. Copies of documents **B1-B5** and **C1-C2** are enclosed.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-

patent literature in accordance with 37 CFR 1.98(a)(2). Foreign patent reference **B5** is a Japanese-language document and is accompanied by an English-language abstract.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: 3/14/08

Respectfully submitted,

By Michael A. Sartori 42709  
for Michael A. Sartori, Ph.D.  
Registration No.: 41,289  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

DC2/935161



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| Substitute for form 1449/PTO  |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   | Application Number       | 11/098,385 – Conf. #8277 |
|   |   | Filing Date              | April 5, 2005            |
|   |   | First Named Inventor     | Peter Venetianer         |
|   |   | Art Unit                 | 2621                     |
|   |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet   | 1 | of                       | 1                        |
|   |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |                                |   |   |
|-----------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |                                |   |   |
|                       | A1                    | 2002/0191851 A1                          | 12-19-2002                     | Keinan  |   |
|                       | A2                    | 6,707,852 B1                             | 03-16-2004                     | Wang  |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                                |   |   |                |
|--------------------------|-----------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |   |   |                |
|                          | B1                    | EP 0893823 A1   | 01-27-1999                     | Texas Instruments France                        |   |                |
|                          | B2                    | EP 1333682 A1   | 08-06-2003                     | Samsung Electronics Co., Ltd.                   |   |                |
|                          | B3                    | EP 0293189 B1   | 07-13-1994                     | Sony Corporation                                |   |                |
|                          | B4                    | WO 1994/003014 A1   | 02-03-1994                     | Koz et al.                                      |   |                |
|                          | B5                    | JP 09-247654 A  | 09-19-1997                     | Fujitsu General Ltd.                            |   | X              |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO. Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | C1                    | International Search Report issued in PCT Application No. PCT/US2006/012556, mailed on February 12, 2008.  |                |
|                                 | C2                    | Written Opinion issued in PCT Application No. PCT/US2006/012556, mailed on February 12, 2008.  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

DC2/935126

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|



*DM*

PTO/SB/21 (01-08)  
Approved for use through 01/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                        |                          |
|--|------------------------|--------------------------|
| <b>TRANSMITTAL FORM</b><br><br><small>(to be used for all correspondence after initial filing)</small> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter L. Venetianer      |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment/Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input checked="" type="checkbox"/> Information Disclosure Statement with PTO/SB/08 and copies of 7 cited references<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) _____<br><br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| <div style="border: 1px solid black; padding: 5px; min-height: 40px;">             Remarks           </div>   |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                                |          |        |
|--|--------------------------------|----------|--------|
| Firm Name                                  | VENABLE LLP                    |          |        |
| Signature                                  | <i>[Handwritten Signature]</i> |          |        |
| Printed name                               | Michael A. Sartori, Ph.D.      |          |        |
| Date                                       | 3/14/08                        | Reg. No. | 41,289 |

DC2/935208



PTO/SB/17 (10-07)

Approved for use through 06/30/2010. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| <p>Effective on 12/08/2004.<br/>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</p> <h2 style="text-align: center;">FEE TRANSMITTAL</h2> <h3 style="text-align: center;">For FY 2008</h3> |  | <b>Complete if Known</b> |                          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385 – Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$)<br><b>0.00</b>  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter L. Venetianer      |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check   
  Credit Card   
  Money Order   
  None   
  Other (please identify): \_\_\_\_\_

Deposit Account   
 Deposit Account Number: 22-0261   
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below   
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17   
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 310         | 155                   | 510         | 255                   | 210              | 105                   |                |
| Design           | 210         | 105                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 210         | 105                   | 310         | 155                   | 160              | 80                    |                |
| Reissue          | 310         | 155                   | 510         | 255                   | 620              | 310                   |                |
| Provisional      | 210         | 105                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 210      | 105                   |
| Multiple dependent claims                          | 370      | 185                   |

**Total Claims**              **Extra Claims**              **Fee (\$)**              **Fee Paid (\$)**             
 **Multiple Dependent Claims**  
**Fee (\$)**              **Fee Paid (\$)**          

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**              **Extra Claims**              **Fee (\$)**              **Fee Paid (\$)**          

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets**              **Extra Sheets**              **Number of each additional 50 or fraction thereof**              **Fee (\$)**              **Fee Paid (\$)**          

\_\_\_\_\_ - 100 = \_\_\_\_\_ /50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_ **Fees Paid (\$)** \_\_\_\_\_

|                     |                           |                                   |                |
|---------------------|---------------------------|-----------------------------------|----------------|
| <b>SUBMITTED BY</b> |                           |                                   |                |
| Signature           |                           | Registration No. (Attorney/Agent) | 41,289         |
| Name (Print/Type)   | Michael A. Sartori, Ph.D. | Telephone                         | (202) 344-4975 |
|                     |                           | Date                              | 3/17/08        |

DC2/935209



*dm*

PTO/SB/21 (01-08)

Approved for use through 01/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|  |                        |                          |
|--|------------------------|--------------------------|
| <h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter L. Venetianer      |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form  | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached   | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply  | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final  | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)  | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request  | <input type="checkbox"/> Terminal Disclaimer  | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request  | <input type="checkbox"/> Request for Refund   |   |
| <input checked="" type="checkbox"/> Information Disclosure Statement with PTO/SB/08 and copies of 3 cited references <i>do w why ts</i> | <input type="checkbox"/> CD, Number of CD(s) _____                                      |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)   | <input type="checkbox"/> Landscape Table on CD  |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application  | Remarks   |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53   |   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  | <i>M. Zalevsky</i> |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | 2-4-08             | Reg. No. | 53,825 |

DC2/929340



PTO/SB/17 (10-07)

Approved for use through 06/30/2010. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2008</b> |  | <b>Complete if Known</b> |                          |
|   |  | Application Number       | 11/098,385 – Conf. #8277 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter L. Venetianer      |
|   |  | Examiner Name            | Mehrdad Dastouri         |
| TOTAL AMOUNT OF PAYMENT   |  | (\$)                     | 0.00                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 310         | 155                   | 510         | 255                   | 210              | 105                   |                |
| Design           | 210         | 105                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 210         | 105                   | 310         | 155                   | 160              | 80                    |                |
| Reissue          | 310         | 155                   | 510         | 255                   | 620              | 310                   |                |
| Provisional      | 210         | 105                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 210      | 105                   |
| Multiple dependent claims                          | 370      | 185                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets  | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|---------------|--|----------|---------------|
| _____        | - 100 = _____ | /50 = _____ (round up to a whole number) x _____ | = _____  |               |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

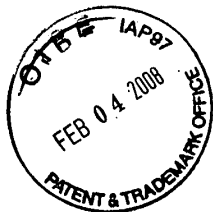
Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                    |                                   |        |           |                |
|-------------------|--------------------|-----------------------------------|--------|-----------|----------------|
| Signature         |                    | Registration No. (Attorney/Agent) | 53,825 | Telephone | (202) 344-4975 |
| Name (Print/Type) | Marina V. Zalevsky | Date                              | 2-4-08 |           |                |

DC2/929341





Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, 1.98 and MPEP § 609, Applicant submits the following Information Disclosure Statement concerning art of which the Applicant is aware. A copy of PTO/SB/08 Form is enclosed. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. published patent applications. Applicant submits herewith copies of foreign patents, non-patent literature, non published patent applications, and/or International Search Report and/or International Office Action along with an English translation in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is “prior art” for this invention unless specifically designated as such.

Consideration of the appropriate paragraph(s) indicated below is respectfully requested:

WITHIN THREE MONTHS OF FILING: Under § 1.97(b)(1), this Information Disclosure Statement is being filed within three months of the filing date of the application (or date of entry of the national stage). Although it is believed no fee is necessary, any deficiency in fees should be handled as set forth below.

BEFORE FIRST OFFICE ACTION: Under § 1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Although it is believed no fee is necessary, any deficiency in fees should be handled as set forth below.

BEFORE FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/WITH STATEMENT: Under § 1.97(c)(1), this information shall be considered if filed before the mailing date of a final action, or a Notice of Allowance or action that otherwise closes prosecution in the application if accompanied by the statement:

Under § 1.97(c)(1), the undersigned states:

A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

BEFORE FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/WITH FEE: Under § 1.97(c)(2), this information shall be considered if filed before the mailing date of a final action, or a Notice of Allowance or action that otherwise closes prosecution

in the application if accompanied by a fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

AFTER FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/AND ON OR BEFORE PAYMENT OF THE ISSUE FEE:

1. Under § 1.97(e)(1), the undersigned states:

A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement; and

2.  the fee in the amount of \$180.00 as required by § 1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

PRIORITY CLAIM: The attached PTO /SB/08 Form includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this application.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed documents.

Application No.: 11/098,385

Docket No.: 37112-215811

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: 2-4-08

Respectfully submitted,

By M. Zalevsky

Marina V. Zalevsky

Registration No.: 53,825

VENABLE LLP

P.O. Box 34385

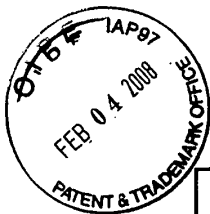
Washington, DC 20043-9998

(202) 344-4000

(202) 344-8300 (Fax)

Attorney/Agent For Applicant

DC2/929042



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

|  |   |                          |                          |                        |              |
|--|---|--------------------------|--------------------------|------------------------|--------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | <b>Complete if Known</b> |                          |                        |              |
|  |   | Application Number       | 11/098,385 – Conf. #8277 |                        |              |
|  |   | Filing Date              | April 5, 2005            |                        |              |
|  |   | First Named Inventor     | Peter Venetianer         |                        |              |
|  |   | Art Unit                 | 2621                     |                        |              |
|  |   | Examiner Name            | Mehrdad Dastouri         |                        |              |
| Sheet  | 1 | of                       | 1                        | Attorney Docket Number | 37112-215811 |

| U.S. PATENT DOCUMENTS |                       |  |  |                                |  |   |
|-----------------------|-----------------------|--|--|--------------------------------|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                                |  |   |
|                       | A1                    | 6,424,370                                |  | 07-23-2002                     | Courtney   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                                |  |   |                |
|--------------------------|-----------------------|---|--|--------------------------------|--|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                                |  |   |                |
|                          |                       |   |  |                                |  |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

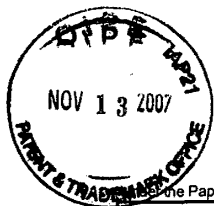
| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | C1                    | International Search Report issued for PCT Application No. PCT/US06/25196, mailed on January 16, 2008.   |                |
|                                 | C2                    | Written Opinion issued for PCT Application No. PCT/US06/25196, mailed on January 16, 2008.   |                |
|                                 | C3                    | Shio et al., "Segmentation of People in Motion", IEEE 1991, p. 325-332.  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

DC2/928874

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|



*SPD*

PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

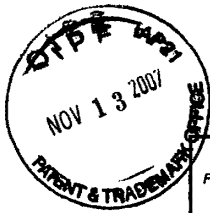
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                        |                          |
|--|------------------------|--------------------------|
| <h2>TRANSMITTAL FORM</h2> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement and PTO/SB/08A<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>- Copy of Japanese Office Action with English translation<br>- Copies of eight (8) documents |
| Remarks  |   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  |                    |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | November 13, 2007  | Reg. No. | 53,825 |

DC2/903230



Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                          |                                  |
|--|--------------------------|----------------------------------|
| <b>Effective on 12/08/2004.</b><br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2007</b> | <b>Complete if Known</b> |                                  |
|  | Application Number       | 11/098,385 – Conf. #8277         |
|  | Filing Date              | April 5, 2005                    |
|  | First Named Inventor     | Peter Venetianer                 |
|  | Examiner Name            | Mehrdad Dastouri                 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27   | Art Unit                 | 2621                             |
| <b>TOTAL AMOUNT OF PAYMENT</b>   | <b>(\$)</b> 0.00         | Attorney Docket No. 37112-215811 |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            |          | 50                    |
| Each independent claim over 3 (including Reissues) |          | 200                   |
| Multiple dependent claims                          |          | 360                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

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**3. APPLICATION SIZE FEE**

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| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof                | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|---|----------|---------------|
| _____        | _____        | _____ / 50 = _____ (round up to a whole number) x _____ = _____ |          |               |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

|                     |                    |                                   |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| <b>SUBMITTED BY</b> |                    |                                   |                  |
| Signature           |                    | Registration No. (Attorney/Agent) | 53,825           |
| Name (Print/Type)   | Marina V. Zalevsky | Telephone                         | (202) 344-4975   |
|                     |                    | Date                              | November 13 2007 |



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter L. Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

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Under § 1.98(a)(3), no concise explanation of relevance is required for information that is in the English language. Accordingly, the enclosed art in English requires no further explanation. For patent documents BA-BC and BE - BG, English abstracts are submitted. Also, for patent document BB, related U.S. Patent is listed on enclosed PTO/SB/08 as document AA, for patent document BC related English Patent Documents are listed on enclosed PTO/SB/08 as documents BD and AB, and for patent document BG related English Patent Documents are listed on enclosed PTO/SB/08 as documents BH and AC.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

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A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

BEFORE FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/WITH FEE: Under § 1.97(c)(2), this information shall be considered if filed before the mailing date of a final action, or a Notice of Allowance or action that otherwise closes prosecution in the application if accompanied by a fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

AFTER FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/AND ON OR BEFORE PAYMENT OF THE ISSUE FEE:

1. Under § 1.97(e)(1), the undersigned states:

A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement; **and**

2.  the fee in the amount of \$180.00 as required by § 1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

PRIORITY CLAIM: The attached PTO /SB/08 Form includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this application.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed documents.

It is believed that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which

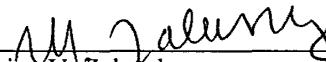
Application No.: 11/098,385

Docket No.: 37112-215811

should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: November 3, 2007

Respectfully submitted,

By   
Marina V. Zalesky  
Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

DC2/903217



|  |   |                          |                           |
|--|---|--------------------------|---------------------------|
| Substitute for form 1449/PTO                         |   | <b>Complete if Known</b> |                           |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> |   | Application Number       | 11/098,385 – Conf. # 8277 |
|  |   | Filing Date              | April 5, 2005             |
|  |   | First Named Inventor     | Peter L. Venetianer       |
|  |   | Art Unit                 | 2621                      |
|  |   | Examiner Name            | Mehrdad Dastouri          |
|  |   | Attorney Docket Number   | 37112-215811              |
| Sheet  | 1 | of                       | 1                         |

| U.S. PATENT DOCUMENTS |                       |  |                  |   |   |
|-----------------------|-----------------------|--|------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
|                       | AA                    | 6,987,528                                | 01/17/06         | Nagahisa  |   |
|                       | AB                    | 6,741,977                                | 05/25/04         | Nagaya  |   |
|                       | AC                    | 6,542,840                                | 04/01/03         | Shusaku   |   |
|                       | AD                    | 6,816,184                                | 11/2004          | Brill et al.                                    |   |
|                       | AE                    | 7,023,469                                | 04/2006          | Olson   |   |
|                       | AF                    | 6,924,801                                | 08/2005          | Dorbie  |   |
|                       | AG                    | 6,844,818                                | 01/2005          | Grech-Cini                                      |   |
|                       | AH                    | 2002/0024446                             | 02/2002          | Grech-Cini                                      |   |
|                       | AI                    | 2002/0163521                             | 11/2002          | Ellenby et al.                                  |   |
|                       | AJ                    | 6,088,484                                | 07/2000          | Mead  |   |
|                       | AK                    | 2002/0051058                             | 05/2002          | Ito et al.                                      |   |
|                       | AL                    | 6,829,371                                | 12/2004          | Nichani et al.                                  |   |
|                       | AM                    | 6,404,455                                | 06/2002          | Ito et al.                                      |   |
|                       | AN                    | 2003/0053659                             | 03/2003          | Pavlidis et al.                                 |   |
|                       | AO                    | 4,737,847                                | 04/1988          | Araki et al.                                    |   |
|                       | AP                    | 2002/0135483                             | 09/2002          | Merheim et al.                                  |   |
|                       | AQ                    | 5,802,361                                | 09/1998          | Wang et al.                                     |   |
|                       | AR                    | 5,515,453                                | 05/1996          | Hennessey et al.                                |   |
|                       | AS                    | 4,908,704                                | 03/1990          | Fujioka et al.                                  |   |
|                       | AT                    | 5,872,865                                | 02/1999          | Normile et al.                                  |   |

| FOREIGN PATENT DOCUMENTS |                       |   |             |                  |   |   |                |
|--------------------------|-----------------------|---|-------------|------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |             | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>5</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY  |                  |   |   |                |
|                          | BA                    | JP  | 10-048008   | 2/20/98          | Omron   |   | ✓              |
|                          | BB                    | JP  | 2000-339923 | 8/12/2000        | Mitsubishi                                      |   | ✓              |
|                          | BC                    | JP  | 2000-224542 | 11/08/2000       | Hitachi   |   | ✓              |
|                          | BD                    | EP  | 1024666 A2  | 8/02/2000        | Hitachi   |   |                |
|                          | BE                    | JP  | 2001-175868 | 6/29/01          | NEC Corp  |   | ✓              |
|                          | BF                    | JP  | 2000-175174 | 6/23/2000        | Mitsubishi                                      |   | ✓              |
|                          | BG                    | JP  | 2001-285681 | 10/12/2001       | Matsushita                                      |   | ✓              |
|                          | BH                    | EP  | 1120746 A2  | 8/01/2001        | Matsushita                                      |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article ( when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | JP Office Action issued in PCT/US02/22688, along with an English translation  | ✓              |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

DC2/903209



*dw*

Approved for use through 03/31/2007. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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|  |                        |                          |
|--|------------------------|--------------------------|
| <h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement and PTO/SB/08A<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>Copy of International Search Report and Written Opinion |
| Remarks  |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  | <i>M. Zalevsky</i> |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | October 16, 2007   | Reg. No. | 53,825 |

DC2/900422



PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2007</b> |  | <b>Complete if Known</b> |                          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385 – Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter Venetianer         |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

Total Claims    Extra Claims    Fee (\$)    Fee Paid (\$)    Multiple Dependent Claims  
 - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    Fee (\$)    Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims    Extra Claims    Fee (\$)    Fee Paid (\$)  
 - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets    Extra Sheets    Number of each additional 50 or fraction thereof    Fee (\$)    Fee Paid (\$)  
 - 100 = \_\_\_\_\_ /50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

|                     |                    |                                   |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| <b>SUBMITTED BY</b> |                    |                                   |                  |
| Signature           |                    | Registration No. (Attorney/Agent) | 53,825           |
| Name (Print/Type)   | Marina V. Zalevsky | Telephone                         | (202) 344-4975   |
|                     |                    | Date                              | October 16, 2007 |

DC2/900419



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Peter L. Venetianer

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of **Documents CA and CB** are enclosed.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

Application No.: 11/098,385



Docket No.: 58086-215811

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of non-patent literature in accordance with 37 CFR 1.98(a)(2).

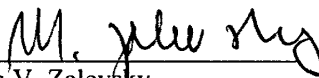
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

We believe that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: October 16, 2007

Respectfully submitted,

By   
Marina V. Zalevsky

DC2/900411

Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant





Used in Lieu of PTO/SB/08A/B  
(Based on PTO 04-07 version)

|  |   |                          |                           |
|--|---|--------------------------|---------------------------|
| Substitute for form 1449/PTO                             |   | <b>Complete if Known</b> |                           |
|  |   | Application Number       | 11/098,385 – Conf. # 8277 |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   | Filing Date              | April 5, 2005             |
|  |   | First Named Inventor     | Peter L. Venetianer       |
|  |   | Art Unit                 | 2621                      |
|  |   | Examiner Name            | Mehrdad Dastouri          |
| Sheet  | 1 | of                       | 1                         |
|  |   | Attorney Docket Number   | 37112-215811              |

| U.S. PATENT DOCUMENTS |                       |  |                  |   |   |
|-----------------------|-----------------------|--|------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
|                       | AA                    | 2002/0008758 A1                          | 01-24-2002       | Broemmelsiek et al.                             |   |
|                       | AB                    | 6,727,938 B1                             | 04-27-2004       | Randall   |   |
|                       | AC                    | 2005/0157169 A1                          | 07-21-2005       | Brodsky et al.                                  |   |

| FOREIGN PATENT DOCUMENTS |                       |   |                  |   |   |                |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |   |   |                |
|                          |                       |   |                  |   |   |                |
|                          |                       |   |                  |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | International Search Report issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007  |                |
|                                 | CB                    | Written Opinion of the International Searching Authority issued for PCT Application No. PCT/US06/45625, mailed on September 24, 2007   |                |

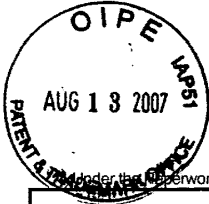
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

DC2/800409

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

1FW



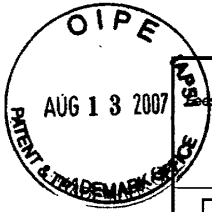
PTO/SB/21 (09-06)  
Approved for use through 03/31/2007. OMB 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
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|  |                        |                          |
|--|------------------------|--------------------------|
| <h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
|  | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form   | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply   | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)   | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request   | <input type="checkbox"/> Terminal Disclaimer  | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request   | <input type="checkbox"/> Request for Refund   | Copy of International Search Report in PCT/US06/02700 and Written Opinion               |
| <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement and PTO/SB/08A | <input type="checkbox"/> CD, Number of CD(s) _____                                      |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)                                  | <input type="checkbox"/> Landscape Table on CD  |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application                           | <input type="text"/> Remarks  |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53                        |   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  |                    |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | August 13, 2007    | Reg. No. | 53,825 |

#878185



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|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). |  | <b>Complete if Known</b> |                          |
| <b>FEE TRANSMITTAL</b>  |  | Application Number       | 11/098,385 – Conf. #8277 |
| <b>For FY 2007</b>  |  | Filing Date              | April 5, 2005            |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27                      |  | First Named Inventor     | Peter Venetianer         |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
| <b>TOTAL AMOUNT OF PAYMENT</b>  |  | Attorney Docket No.      | 37112-215811             |
|   |  |                          |                          |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | _____          |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    | _____          |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    | _____          |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   | _____          |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     | _____          |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| _____        | _____        | _____  | _____    | _____         |

\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

|                     |                      |                                   |                 |
|---------------------|----------------------|-----------------------------------|-----------------|
| <b>SUBMITTED BY</b> |                      |                                   |                 |
| Signature           | <i>M. V. Zalesky</i> | Registration No. (Attorney/Agent) | 53,825          |
| Name (Print/Type)   | Marina V. Zalesky    | Telephone                         | (202) 344-4975  |
|                     |                      | Date                              | August 13, 2007 |

#883046

Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Venetianer et al.

Application No: 11/098,385

Confirmation No: 8277

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES



Art Unit: 2621

Examiner: Mehrdad Dastouri

Atty. Docket No: 37112-215811

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TO THE  
INFORMATION DISCLOSURE STATEMENT FILED JUNE 29, 2007**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to International Search Report and Written Opinion in related International Patent Application No. PCT/US06/02700. It is respectfully requested that the information be expressly considered during the prosecution of this application.

The present Supplemental Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

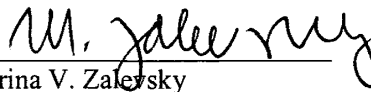
In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an

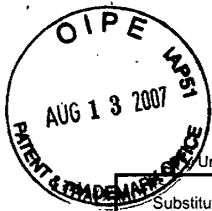
admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

We believe that no fees are required with the submission of this Supplemental Information Disclosure Statement. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: August 13, 2007

Respectfully submitted,

By   
Marina V. Zalesky  
Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant



PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |  |   |    |                          |                          |              |
|--|--|---|----|--------------------------|--------------------------|--------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |  |   |    | <b>Complete if Known</b> |                          |              |
|  |  |   |    | Application Number       | 11/098,385 – Conf. #8277 |              |
| Sheet  |  | 1 | of | 1                        | Attorney Docket Number   | 37112-215811 |

| U.S. PATENT DOCUMENTS |                       |  |  |                             |   |   |
|-----------------------|-----------------------|--|--|-----------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                             |   |   |
|                       | AA                    |  |  |                             |   |   |
|                       | AB                    |  |  |                             |   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                             |   |   |                |
|--------------------------|-----------------------|---|--|-----------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                             |   |   |                |
|                          | BA                    |   |  |                             |   |   |                |
|                          | BB                    |   |  |                             |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | International Search Report and Written Opinion in PCT/US06/02700   |                |
|                                 | CB                    |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

#883041

1/11

PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.



Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL  
For FY 2007**

Applicant claims small entity status. See 37 CFR 1.27

| TOTAL AMOUNT OF PAYMENT |      | Attorney Docket No. |      |
|-------------------------|------|---------------------|------|
| (\$)                    | 0.00 | 37112-215811        | 2621 |

**METHOD OF PAYMENT** (check all that apply)

Check   
  Credit Card   
  Money Order   
  None   
  Other (please identify): \_\_\_\_\_

Deposit Account   
 Deposit Account Number: 22-0261   
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below   
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17   
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

Total Claims    Extra Claims    Fee (\$)    Fee Paid (\$)    Multiple Dependent Claims  
 \_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    Fee (\$)    Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims    Extra Claims    Fee (\$)    Fee Paid (\$)  
 \_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof        | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|---|----------|---------------|
| _____        | _____        | _____ / 50 = _____ (round up to a whole number) x _____ | _____    | _____         |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                    |                                   |               |           |                |  |
|-------------------|--------------------|-----------------------------------|---------------|-----------|----------------|--|
| Signature         |                    | Registration No. (Attorney/Agent) | 53,825        | Telephone | (202) 344-4975 |  |
| Name (Print/Type) | Marina V. Zalevsky | Date                              | July 23, 2007 |           |                |  |

#878183



PTO/SB/21 (09-06)  
 Approved for use through 03/31/2007. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|  |                      |                          |              |
|--|----------------------|--------------------------|--------------|
| <b>TRANSMITTAL FORM</b><br><br><small>(to be used for all correspondence after initial filing)</small> | Application Number   | 11/098,385 – Conf. #8277 |              |
|  | Filing Date          | April 5, 2005            |              |
|  | First Named Inventor | Peter Venetianer         |              |
|  | Art Unit             | 2621                     |              |
|  | Examiner Name        | Mehrdad Dastouri         |              |
|  |                      | Attorney Docket Number   | 37112-215811 |

| ENCLOSURES (Check all that apply)  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input checked="" type="checkbox"/> Amendment/Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input type="checkbox"/> Information Disclosure Statement and PTO/SB/08A<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) _____<br><br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks  |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  |                    |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | July 23, 2007      | Reg. No. | 53,825 |

#878185





37112-215811  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Venetianer et al.

Art Unit: 2621

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**FIRST PRELIMINARY AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INTRODUCTORY COMMENTS**

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Remarks** begin on page 4 of this paper.

**Amendments to the Specification:**

Please add the following new paragraphs 144.1-144.6 immediately following paragraph 144:

[144.1] In block 31, one or more objects types of interests are identified in terms of video primitives or abstractions thereof. Examples of one or more objects include: an object; a person; a red object; two objects; two persons; and a vehicle.

[144.2] In block 32, one or more spatial areas of interest are identified. An area refers to one or more portions of an image from a source video or a spatial portion of a scene being viewed by a video sensor. An area also includes a combination of areas from various scenes and/or images. An area can be an image-based space (e.g., a line, a rectangle, a polygon, or a circle in a video image) or a three-dimensional space (e.g., a cube, or an area of floor space in a building).

[144.3] Figure 12 illustrates identifying areas along an aisle in a grocery store. Four areas are identified: coffee; soda promotion; chips snacks; and bottled water. The areas are identified via a point-and-click interface with the system.

[144.4] In block 33, one or more temporal attributes of interest are optionally identified. Examples of a temporal attribute include: every 15 minutes; between 9:00 p.m. to 6:30 a.m.; less than 5 minutes; longer than 30 seconds; over the weekend; and within 20 minutes of.

[144.5] In block 34, a response is optionally identified. Examples of a response includes the following: activating a visual and/or audio alert on a system display; activating a visual and/or audio alarm system at the location; activating a silent alarm; activating a rapid response mechanism; locking a door; contacting a security service; forwarding data (e.g., image data, video data, video primitives; and/or analyzed data) to another computer system via a network, such as the Internet; saving such data to a designated computer-readable medium; activating

some other sensor or surveillance system; tasking the computer system 11 and/or another computer system; and directing the computer system 11 and/or another computer system.

[144.6] In block 35, one or more discriminators are identified by describing interactions between video primitives (or their abstractions), spatial areas of interest, and temporal attributes of interest. An interaction is determined for a combination of one or more objects identified in block 31, one or more spatial areas of interest identified in block 32, and one or more temporal attributes of interest identified in block 33. One or more responses identified in block 34 are optionally associated with each event discriminator.

Please replace paragraph 170 in the specification with the following replacement paragraph:

[170] In block 53, blobs are generated. In general, a blob is any object in a frame. Examples of a blob include: a moving object, such as a person or a vehicle; and a consumer product, such as a piece of furniture, a clothing item, or a retail shelf item. Blobs are generated using the detected objects from blocks 51 and 52 ~~32 and 33~~. Any technique for generating blobs can be used for this block. An exemplary technique for generating blobs from motion detection and change detection uses a connected components scheme. For example, the morphology and connected components algorithm can be used, which is described in {1}.

Please replace paragraph 179 in the specification with the following replacement paragraph:

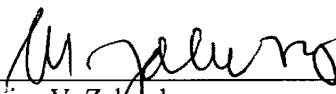
[179] In block 61, responses are undertaken as dictated by the event discriminators that detected the event occurrences. The responses, if any, are identified for each event discriminator in block ~~[[34]]~~ 162.

**REMARKS**

The amendments made in this preliminary amendment are to correct minor typographical mistakes and add a detailed description of Figures 3 and 12 (new paragraphs 144.1-144.6). The support for new paragraphs 144.1-144.6 is found in a parent Patent Application No. 09/987,707, paragraphs 92-97, which parent application is incorporated by reference in the present application in its entirety. Applicants respectfully submit that the amendments to the specification do not represent any new subject matter. An examination on the merits of the application is respectfully requested.

Dated: July 23, 2007

Respectfully submitted,

By   
Marina V. Zalevsky  
Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

#878091

JFW



Approved for use through 03/31/2007. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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|--|------------------------|--------------------------|
| <b>TRANSMITTAL FORM</b><br><br><i>(to be used for all correspondence after initial filing)</i> | Application Number     | 11/098,385 – Conf. #8277 |
|  | Filing Date            | April 5, 2005            |
|  | First Named Inventor   | Peter Venetianer         |
|  | Art Unit               | 2621                     |
|  | Examiner Name          | Mehrdad Dastouri         |
| Total Number of Pages in This Submission   | Attorney Docket Number | 37112-215811             |

| ENCLOSURES (Check all that apply)  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement and PTO/SB/08A<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks  |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                    |          |        |
|--|--------------------|----------|--------|
| Firm Name                                  | VENABLE LLP        |          |        |
| Signature                                  |                    |          |        |
| Printed name                               | Marina V. Zalevsky |          |        |
| Date                                       | June 29, 2007      | Reg. No. | 53,825 |

DC1/244940



Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2006</b> |  | <b>Complete if Known</b> |                          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 11/098,385 – Conf. #8277 |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Filing Date              | April 5, 2005            |
|   |  | First Named Inventor     | Peter Venetianer         |
|   |  | Examiner Name            | Mehrdad Dastouri         |
|   |  | Art Unit                 | 2621                     |
|   |  | Attorney Docket No.      | 37112-215811             |

**METHOD OF PAYMENT** (check all that apply)

Check  
  Credit Card  
  Money Order  
  None  
  Other (please identify): \_\_\_\_\_

Deposit Account  
 Deposit Account Number: 22-0261  
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | _____          |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    | _____          |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    | _____          |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   | _____          |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     | _____          |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 \_\_\_\_\_ - 34 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 \_\_\_\_\_ - 6 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets  | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|---------------|--|----------|---------------|
| _____        | - 100 = _____ | /50 _____ (round up to a whole number) x _____   | = _____  | _____         |

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

|                   |                    |                                   |               |           |                |
|-------------------|--------------------|-----------------------------------|---------------|-----------|----------------|
| Signature         |                    | Registration No. (Attorney/Agent) | 53,825        | Telephone | (202) 344-4975 |
| Name (Print/Type) | Marina V. Zalevsky | Date                              | June 29, 2007 |           |                |



Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Venetianer et al.

Art Unit: 2613

Application No: 11/098,385

Examiner: Mehrdad Dastouri

Confirmation No: 8277

Filed: April 5, 2005

Atty. Docket No: 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMATIVES

Customer No:

**26694**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the reference listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as

Application No.: 11/098,385

Docket No.: 37112-215811

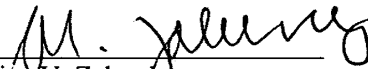
defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

We believe that no fees are required with the submission of this IDS. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 37112-215811.

Dated: June 29, 2007

Respectfully submitted,

By   
Marina V. Zalevsky

DC1/244916

Registration No.: 53,825  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant





PTO/SB/08A/B (09-06)

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| Substitute for form 1449/PTO   |   | <b>Complete if Known</b> |                          |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number       | 11/098,385 – Conf. #8277 |
|  |   | Filing Date              | April 5, 2005            |
|  |   | First Named Inventor     | Peter Venetianer         |
|  |   | Art Unit                 | 2621                     |
|  |   | Examiner Name            | Mehrdad Dastouri         |
| Sheet  | 1 | of                       | 1                        |
|  |   | Attorney Docket Number   | 37112-215811             |

| U.S. PATENT DOCUMENTS |                       |  |  |                                |   |   |
|-----------------------|-----------------------|--|--|--------------------------------|---|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |  |                                |   |   |
|                       | AA                    | US-6,628,835                             |  | 09-30-2003                     | Brill et al.                                    |   |
|                       | AB                    | US-                                      |  |                                |   |   |

| FOREIGN PATENT DOCUMENTS |                       |   |  |                                |   |   |                |
|--------------------------|-----------------------|---|--|--------------------------------|---|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |  |                                |   |   |                |
|                          | BA                    |   |  |                                |   |   |                |
|                          | BB                    |   |  |                                |   |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    |   |                |
|                                 | CB                    |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
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DC1/244909

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|  |                             |   |
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| <b>TRANSMITTAL FORM</b><br><i>(to be used for all correspondence after initial filing)</i> | <b>Application Number</b>   | 11/098,385                                    |
|  | <b>Filing Date</b>          | April 5, 2005                                 |
|  | <b>First Named Inventor</b> | Peter L. VENETIANER et al.                    |
|  | <b>Group Art Unit</b>       | 2613  |
|  | <b>Examiner Name</b>        | Not yet assigned                              |
| <b>Total Number of Pages in This Submission</b>  |                             | <b>Attorney Docket Number</b><br>37112-215811 |

| ENCLOSURES (check all that apply)  |   |  |         |  |
|--|---|--|---------|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><p style="text-align: center;"><b>PTO/SB/08A with 1 Reference</b></p> |         |  |
| <table border="1" style="width: 100%;"> <tr> <td style="width: 20%; text-align: center;">Remarks</td> <td>A copy of JP-10-290449 and the English translation of the Abstract are attached.</td> </tr> </table>   |   |  | Remarks | A copy of JP-10-290449 and the English translation of the Abstract are attached. |
| Remarks  | A copy of JP-10-290449 and the English translation of the Abstract are attached.  |  |         |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |  |                                  |
|--|--|----------------------------------|
| Firm or Individual name                    | Venable<br>P.O. Box 34385<br>Washington, D.C. 20043-9998 | 26694<br>PATENT TRADEMARK OFFICE |
| Signature                                  | Jeffrey W. Gluck - Reg. No. 44,457                       |                                  |
| Date                                       | November 29, 2005  |                                  |

| CERTIFICATE OF MAILING  |  |      |
|---|--|------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450b on this date: <input style="width: 100px;" type="text"/> |  |      |
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| Signature   |  | Date |



SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**Peter VENETIANER et al.**

Application No: 11/098,385

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Confirmation No: 8277

Art Unit: 2613

Examiner: Not yet assigned

Atty. Docket No: 37112-215811

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b).

In order to comply with applicant's duty of disclosure under 37 C.F.R. § 1.56, the U.S. Patent and Trademark Office is notified of the document listed on the attached Form PTO/SB/08A, and which the Examiner may deem relevant to patentability of the claims of the above-identified application. A copy of the cited reference is enclosed, including a translation of the abstract.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

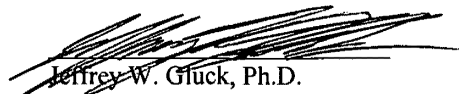
In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

Applicants: *Peter VENETIANER et al.*  
Application No.: 11/098,385

No fee is due for the submission of this Information Disclosure Statement. However, if any additional fees are deemed necessary, please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Respectfully submitted,

Date: 11/29/05



Jeffrey W. Gluck, Ph.D.  
Registration No. 44,457  
VENABLE LLP  
P.O. Box 34385  
Washington, D.C. 20043-9998

Telephone: (202) 344-4000  
Facsimile: (202) 344-8300

DC2DOCSI/701103





*JW*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**Peter VENETIANER *et al.***

Application No: 11/098,385

Filed: April 5, 2005

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

**Confirmation No: 8277**

Art Unit: 2613

Examiner: Not yet assigned

Atty. Docket No: 37112-215811

Customer No:

**26694**

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

***Mail Stop: Patent Applications***

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b).

In order to comply with applicant's duty of disclosure under 37 C.F.R. § 1.56, the U.S. Patent and Trademark Office is notified of the documents which are listed on the attached Form PTO/SB/08A and which the Examiner may deem relevant to patentability of the claims of the above-identified application. No copies of the listed documents are being submitted as these documents have previously been submitted to the Patent Office and/or made of record in copending Applications No. 09/694,712, 09/987,707 and 11/057,154.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information



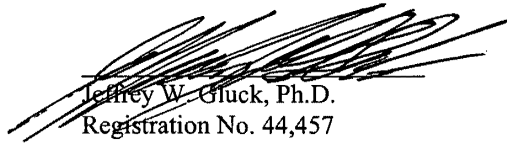
Applicants: *Peter VENETIANER et al.*  
Application No.: 11/098,385

Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

No fee is due for the submission of this Information Disclosure Statement. However, if any additional fees are deemed necessary, please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Respectfully submitted,

Date: July 1, 2005

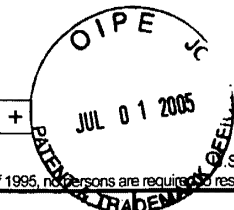


Jeffrey W. Gluck, Ph.D.  
Registration No. 44,457  
VENABLE LLP  
P.O. Box 34385  
Washington, D.C. 20043-9998

Telephone: (202) 344-4000  
Facsimile: (202) 344-8300

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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |        | Application Number       | 11/098,385                  |
|   |        | Filing Date              | April 25, 2005              |
|   |        | First Named Inventor     | P. VENETIANER <i>et al.</i> |
|   |        | Group Art Unit           | 2613                        |
|   |        | Examiner Name            | Not Yet Assigned            |
|   |        | Attorney Docket Number   | 37112-215811                |
| Sheet   | 1 of 3 |                          |                             |

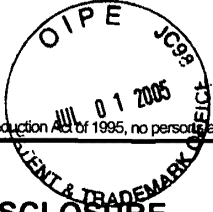
| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
|                       | 1                     | 6,801,662            | B1                                | OWECHKO, et al.                                 | 10/05/2004                                       |   |
|                       | 2                     | 6,597,800            | B1                                | MURRAY, et al.                                  | 7/22/2003  |   |
|                       | 3                     | 2003/0051255         | A1                                | BULMAN, et al.                                  | 3/13/2003  |   |
|                       | 4                     | 6,504,479            | B1                                | LEMONS, et al.                                  | 1/07/2003  |   |
|                       | 5                     | 6,411,724            | B1                                | VAITHILINGAM, et al.                            | 6/25/2002  |   |
|                       | 6                     | 6,351,265            | B1                                | BULMAN  | 2/26/2002  |   |
|                       | 7                     | 6,351,492            | B1                                | KIM, Jin-Hun                                    | 2/26/2002  |   |
|                       | 8                     | 6,326,964            | B1                                | SNYDER, et al.                                  | 12/04/2001                                       |   |
|                       | 9                     | 6,310,916            | B1                                | HAN, Seok-Won                                   | 10/30/2001                                       |   |
|                       | 10                    | 6,307,885            | B1                                | MOON, et al.                                    | 10/23/2001                                       |   |
|                       | 11                    | 6,226,388            |                                   | QIAN, et al.                                    | 05/01/01   |   |
|                       | 12                    | 6,201,473            |                                   | SCHAFFER  | 03/13/01   |   |
|                       | 13                    | 6,177,886            |                                   | BILLINGTON, et al.                              | 01/23/01   |   |
|                       | 14                    | 6,166,744            | A                                 | JASZLICS, et al.                                | 12/26/2000                                       |   |
|                       | 15                    | 6,151,413            | A                                 | JANG, Euee-seon                                 | 11/21/2000                                       |   |
|                       | 16                    | 6,144,375            |                                   | JAIN et al.                                     | 11/7/2000  |   |
|                       | 17                    | 6,097,429            |                                   | SEELEY, et al.                                  | 08/01/00   |   |
|                       | 18                    | 6,091,771            |                                   | SEELEY, et al.                                  | 07/18/00   |   |
|                       | 19                    | 6,075,560            |                                   | KATZ  | 06/13/00   |   |
|                       | 20                    | 6,014,461            |                                   | HENNESSEY et al.                                | 1/11/2000  |   |
|                       | 21                    | 5,999,189            |                                   | KAJIYA, et al.                                  | 12/07/99   |   |
|                       | 22                    | 5,987,211            |                                   | ABECASSIS                                       | 11/16/99   |   |
|                       | 23                    | 5,983,147            | A                                 | KRUMM, John                                     | 11/09/1999                                       |   |
|                       | 24                    | 5,959,690            |                                   | TOEBES, VIII, et al.                            | 09/28/99   |   |
|                       | 25                    | 5,956,081            |                                   | KATZ, et al.                                    | 09/21/99   |   |
|                       | 26                    | 5,886,701            |                                   | CHAUVIN, et al.                                 | 03/23/99   |   |
|                       | 27                    | 5,860,086            |                                   | CRUMP, et al.                                   | 01/12/99   |   |
|                       | 28                    | 5,801,943            |                                   | NASBURG   | 09/01/98   |   |
|                       | 29                    | 5,696,503            |                                   | NASBURG   | 12/09/97   |   |
|                       | 30                    | 5,623,249            |                                   | CAMIRE  | 04/22/97   |   |
|                       | 31                    | 5,610,653            |                                   | ABECASSIS                                       | 03/11/97   |   |
|                       | 32                    | 5,491,511            |                                   | ODLE  | 02/13/96   |   |
|                       | 33                    | 5,448,315            |                                   | SOOHOO  | 09/05/95   |   |
|                       | 34                    | 3,812,287            |                                   | LEMELSON  | 05/21/74   |   |

| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |    |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Ts |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |    |
|                          |                       |                         |                     |                                   |   |  |   |    |
|                          |                       |                         |                     |                                   |   |  |   |    |
|                          |                       |                         |                     |                                   |   |  |   |    |
| Examiner Signature       |                       |                         |                     |                                   | Date Considered                                 |  |   |    |

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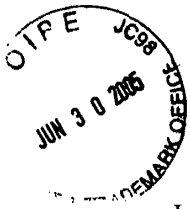
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|---|---|--------------------------|-----------------------------|
| Substitute for form 1449A/PTO   |   | <b>Complete if Known</b> |                             |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   | Application Number       | 11/098,385                  |
|   |   | Filing Date              | April 5, 2005               |
|   |   | First Named Inventor     | P. VENETIANER <i>et al.</i> |
|   |   | Group Art Unit           | 2613                        |
|   |   | Examiner Name            | Not Yet Assigned            |
|   |   | Attorney Docket Number   | 37112-215811                |
| Sheet   | 2 | of                       | 3                           |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|--|-----------------------|---|----------------|
| Examiner Initials *                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|  | 35                    | H. Fujiyoshi and A. J. Lipton, "Real-time Human Motion Analysis by Image Skeletonization," <u>Proceedings of IEEE WACV'98</u> , Princeton, NJ, 1998, pp.15-21.  |                |
|  | 36                    | A. J. Lipton, H. Fujiyoshi and R. S. Patil, "Moving Target Classification and Tracking from Real-time Video," <u>Proceedings of IEEE WACV'98</u> , Princeton, NJ, 1998, pp.8-14.  |                |
|  | 37                    | A. J. Lipton, "Local Application of Optic Flow to Analyse Rigid Versus Non-Rigid Motion," <u>International Conference on Computer Vision</u> , Corfu, Greece, September 1999.   |                |
|  | 38                    | R. T. Collins, Y. Tsin, J. R. Miller, and A. J. Lipton "Using a DEM to Determine Geospatial Object Trajectories," CMU-RI-TR-98-19, 1998.  |                |
|  | 39                    | A. Selinger and L. Wixson, "Classifying Moving Objects as Rigid or Non-Rigid Without Correspondences," <u>Proceedings of DARPA Image Understanding Workshop</u> , 1, November 1998, pp. 341-47.   |                |
|  | 40                    | Jemez Technology Corp., Variant iD Web-Site, www.variantid.com, printed August 25, 2003.  |                |
|  | 41                    | Alan J. Lipton "Virtual Postman-An Illustrative Example of Virtual Video," <u>International Journal of Robotics and Automation</u> , Vol. 15, No. 1, January 2000, pages 9-16.  |                |
|  | 42                    | Alan J. Lipton, "Virtual Postman - Real-Time, Interactive Virtual Video," <u>IASTED Conference on Computer Graphics and Imaging (CGIM '99)</u> , Palm Springs, October 25-27, 1999.   |                |
|  | 43                    | Robert T. Collins et al., "A System for Video Surveillance and Monitoring," <u>Technical Report CMU-RI-TR-00-12</u> , Robotics Institute, Carnegie Mellon University, May 2000.   |                |
|  | 44                    | L. WIXSON ET AL., "Detecting Salient Motion by Accumulating Directionally-Consistent Flow," <u>IEEE</u> , 1999.   |                |
|  | 45                    | W.E.L. GRIMSON ET AL., "Using Adaptive Tracking to Classify and Monitor Activities in a Site," <u>CVPR</u> , pp. 22-29, June 1998.  |                |
|  | 46                    | A.J. LIPTON ET AL., "Moving Target Classification and Tracking from Real-time Video," <u>IUW</u> , pp. 129-136, 1998.   |                |
|  | 47                    | T.J. OLSEN ET AL., "Moving Object Detection and Event Recognition Algorithm for Smart Cameras," <u>IUW</u> , pp. 159-175, May 1997.   |                |
|  | 48                    | A. J. LIPTON, "Local Application of Optical Flow to Analyse Rigid Versus Non-Rigid Motion," <u>International Conference on Computer Vision Frame Rate Workshop</u> , Corfu, Greece, September 1999.   |                |
|  | 49                    | F. BARTOLINI ET AL., "Counting people getting in and out of a bus by real-time image-sequence processing," <u>IVC</u> , 12(1):36-41, January 1994.  |                |
|  | 50                    | M. ROSSI ET AL., "Tracking and counting moving people," <u>ICIP94</u> , pp. 212-216, 1994.  |                |
|  | 51                    | C.R. WREN ET AL., "Pfinder: Real-time tracking of the human body," <u>Vismod</u> , 1995.  |                |
|  | 52                    | L. KHOUDOUR ET AL., "Real-Time Pedestrian Counting by Active Linear Cameras," <u>JEI</u> , 5(4):452-459, October 1996.  |                |
|  | 53                    | S. IOFFE ET AL., "Probabilistic Methods for Finding People," <u>IJCV</u> , 43(1):45-68, June 2001.  |                |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|





JFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Peter L. VENETIANER

Art Unit: 2613

Appl. No. 11/098,385

Examiner: Not Yet Assigned

Confirmation No. 8277

Filed: April 5, 2005

Atty. Docket No. 37112-215811

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Customer No.

26694

PATENT TRADEMARK OFFICE

Request for Corrected Filing Receipt

**Mail Stop: Office of Initial Patent Examination  
Filing Receipt Corrections**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**Attention: BOX PATENT APPLICATION**

Sir:

Submitted herewith is the original filing receipt with a request that a corrected filing receipt be issued reflecting the correct spelling of the eighth inventor's last name.

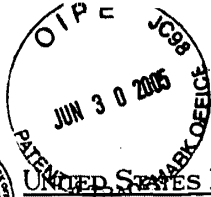
--ZHONG ZHANG --

Respectfully submitted,

Date: 6/30/05

Jeffrey W. Gluck, Ph.D.  
Registration No. 44,457  
VENABLE LLP  
P.O. Box 34385  
Washington, D.C. 20043-9998  
Telephone: (202) 344-4000  
Telefax: (202) 344-8300

660623



RA MAS  
WA JWG



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| APPL NO.   | FILING OR 371 (c) DATE | ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | DRAWINGS | TOT CLMS | IND CLMS |
|------------|------------------------|----------|---------------|-----------------|----------|----------|----------|
| 11/098,385 | 04/05/2005             | 2613     | 650           | 37112-215811    | 19       | 26       | 2        |

CONFIRMATION NO. 8277

26694  
VENABLE LLP  
P.O. BOX 34385  
WASHINGTON, DC 20045-9998

FILING RECEIPT



\*OC000000015892436\*

Date Mailed: 06/02/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Peter L. Venetianer, McLean, VA;  
Alan J. Lipton, Herndon, VA;  
Andrew J. Chosak, Arlington, VA;  
Matthew F. Frazier, Arlington, VA;  
Niels Haering, Reston, VA;  
Gary W. Myers, Ashburn, VA;  
Weihong Yin, Herndon, VA;  
Zhong Zhang, Herndon, VA;

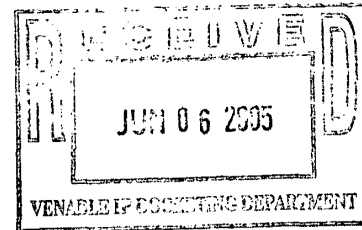
Assignment For Published Patent Application

OBJECTVIDEO, INC., RESTON, VA

Power of Attorney: The patent practitioners associated with Customer Number **26694**.

Domestic Priority data as claimed by applicant

This application is a CIP of 11/057,154 02/15/2005  
which is a CIP of 09/987,707 11/15/2001  
which is a CIP of 09/694,712 10/24/2000



Foreign Applications

If Required, Foreign Filing License Granted: 04/27/2005

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/098,385**

**Projected Publication Date:** 08/04/2005

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

Video surveillance system employing video primitives

**Preliminary Class**

348

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**LICENSE FOR FOREIGN FILING UNDER  
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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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| 11/098,385 | 04/05/2005                | 2613     | 650           | 37112-215811    | 19       | 26       | 2        |

CONFIRMATION NO. 8277

26694  
 VENABLE LLP  
 P.O. BOX 34385  
 WASHINGTON, DC 20435-9998

## FILING RECEIPT



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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

Peter L. Venetianer, McLean, VA;  
 Alan J. Lipton, Herndon, VA;  
 Andrew J. Chosak, Arlington, VA;  
 Matthew F. Frazier, Arlington, VA;  
 Niels Haering, Reston, VA;  
 Gary W. Myers, Ashburn, VA;  
 Weihong Yin, Herndon, VA;  
 Zhong Zhan, Herndon, VA;

## Assignment For Published Patent Application

OBJECTVIDEO, INC., RESTON, VA

Power of Attorney: The patent practitioners associated with Customer Number **26694**.

## Domestic Priority data as claimed by applicant

This application is a CIP of 11/057,154 02/15/2005  
 which is a CIP of 09/987,707 11/15/2001  
 which is a CIP of 09/694,712 10/24/2000

## Foreign Applications

If Required, Foreign Filing License Granted: 04/27/2005

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/098,385**

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**Projected Publication Date:** 08/04/2005

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

Video surveillance system employing video primitives

**Preliminary Class**

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---

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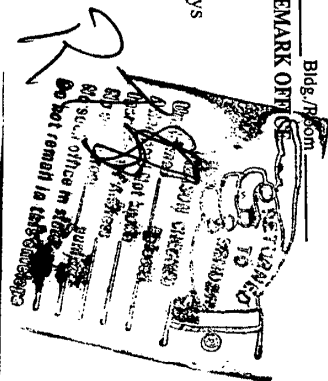
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PTO/SB/05 (09-04)

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|   |                        |   |
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| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br><small>(ONLY FOR NEW NONPROVISIONAL APPLICATIONS UNDER<br/>37 CFR 1.53(B))</small> | Attorney Docket No.    | 37112-215811  |
|   | First Inventor         | Peter L. Venetianer                                     |
|   | Title                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING<br>VIDEO PRIMITIVES |
|   | Express Mail Label No. |   |

113268 U.S. PTO  
11/098385

040505

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small> | <b>ADDRESS TO:</b> Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 |
|--|---|

1.  **Fee Transmittal Form** (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2.  **Applicant claims small entity status.**  
See 37 CFR 1.27.
3.  **Specification** [Total Pages 54 ]  
Both the claims and abstract must start on a new page  
(For information on the preferred arrangement, see MPEP 606.01(a))
4.  **Drawing(s)** (35 U.S.C. 113) [Total Sheets 19 ]
5. **Oath or Declaration** [Total Sheets 4 ]
  - a.  Newly executed (original or copy)
  - b.  A copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application,  
see 37 CFR 1.63(d)(2) and 1.33(b).
6.  **Application Data Sheet.** See 37 CFR 1.76
7.  **CD-ROM or CD-R** in duplicate, large table or  
Computer Program (Appendix)  
 Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission**  
(if applicable, items a. - c. are required)
  - a.  Computer Readable Form (CRF)
  - b. **Specification Sequence Listing on:**
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  Paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  **Assignment Papers** (cover sheet & document(s))  
Name of Assignee:  

ObjectVideo, Inc.
10.  **37 CFR 3.73(b) Statement**  **Power of Attorney**  
(when there is an assignee)
11.  **English Translation Document** (if applicable)
12.  **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)  
 Copies of citations attached
13.  **Preliminary Amendment**
14.  **Return Receipt Postcard** (MPEP 503)  
(Should be specifically itemized)
15.  **Certified Copy of Priority Document(s)**  
(if foreign priority is claimed)
16.  **Nonpublication Request** under 35 U.S.C. 122 (b)(2)(B)(i).  
Applicant must attach form PTO/SB/35 or its equivalent.
17.  **Other:**


18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: 11/057,154

Prior application information: Examiner Not Yet Assigned Art Unit: N/A

**19. CORRESPONDENCE ADDRESS**

The address associated with Customer Number: 26694 OR  Correspondence address below

|                   |   |           |  |
|-------------------|---|-----------|--|
| Name              | VENABLE LLP   |           |  |
| Address           | P.O. Box 34385  |           |  |
| City              | Washington  | State     | D.C.                                     |
|                   |   | Zip Code  | 20043-9998                               |
| Country           | U.S.A.  | Telephone | 202-344-8017                             |
|                   |   | Fax       | 202-344-8300                             |
| Signature         |  |           |  |
| Date              | April 5, 2005   |           |  |
| Name (Print/Type) | Jeffrey W. Gluck, Ph.D.   |           | Registration No. (Attorney/Agent) 44,457 |

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*Patent fees are subject to annual revision.*

*Complete If Known*

|                      |                       |
|----------------------|-----------------------|
| Application Number   | Not Yet Assigned      |
| Filing Date          | Concurrently Herewith |
| First Named Inventor | Peter L. Venetianer   |
| Examiner Name        | Not Yet Assigned      |
| Group / Art Unit     | Not Yet Assigned      |
| Attorney Docket No.  | 37112-215811          |

**TOTAL AMOUNT OF PAYMENT** (\$) 665.00

| METHOD OF PAYMENT (check one)  |   | FEE CALCULATION (continued)       |                  |  |                 |  |          |
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| 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:<br><br>Deposit Account Number: <input type="text" value="22-0261"/><br><br>Deposit Account Name: <input type="text" value="Venable LLP"/><br><br><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17<br><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 |   | 3. ADDITIONAL FEES                |                  |  |                 |  |          |
| 2. <input type="checkbox"/> Payment Enclosed:<br><input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other   |   | Fee Code                          | Lrg Ent Fee (\$) | Fee Code   | Sm Ent Fee (\$) | Fee Description  | Fee Paid |
| FEE CALCULATION  |   | 1111                              | 500              | 2111   | 250             | Utility Search Fee   | 250      |
| 1. BASIC FILING FEE  |   | 1112                              | 100              | 2112   | 50              | Design Search Fee  |          |
| Large Fee Code   | Entity Fee(\$)                          | 1113                              | 300              | 2113   | 150             | Plant Search Fee   |          |
|  | Small Fee Code                          | 1114                              | 500              | 2114   | 250             | Reissue Search Fee   |          |
|  | Entity Fee (\$)                         | 1311                              | 200              | 2311   | 100             | Utility Examination Fee  | 100      |
| 1011   | 300                                     | 2011                              | 150              | Utility filing fee   |                 | 150  |          |
| 1012   | 200                                     | 2012                              | 100              | Design filing fee  |                 |  |          |
| 1013   | 200                                     | 2013                              | 100              | Plant filing fee   |                 |  |          |
| 1014   | 300                                     | 2014                              | 150              | Reissue filing fee   |                 |  |          |
| 1005   | 200                                     | 2005                              | 100              | Provisional filing fee                                     |                 |  |          |
| 1081   | 250                                     | 2081                              | 125              | Utility App. Size Fee                                      |                 |  |          |
| 1082   | 250                                     | 2082                              | 125              | Design App Size Fee  |                 |  |          |
| 1083   | 250                                     | 2083                              | 125              | Plant App. Size Fee  |                 |  |          |
| 1084   | 250                                     | 2084                              | 125              | Reissue App Size Fee                                       |                 |  |          |
| 1085   | 250                                     | 2085                              | 125              | Prov. App Size Fee   |                 |  |          |
| SUBTOTAL (1)   |   |                                   |                  |  |                 | (\$)150  |          |
| 2. EXTRA CLAIM FEES  |   | 1312                              | 130              | 2312   | 65              | Design Examination Fee   |          |
| Total Claims   | <input type="text" value="26"/> -20** = | 1313                              | 160              | 2313   | 80              | Plant Examination Fee  |          |
| Independent Claims   | <input type="text" value="2"/> -3** =   | 1314                              | 600              | 2314   | 300             | Reissue Examination Fee  |          |
| Multiple Dependent   | <input type="text" value="0"/>          | 1051                              | 130              | 2051   | 65              | Surcharge - late filing fee or oath  |          |
| Extra Claims   | <input type="text" value="6"/>          | 1052                              | 50               | 2052   | 25              | Surcharge - late provisional filing fee or cover sheet.                    |          |
| Fee from below   | <input type="text" value="25"/>         | 1053                              | 130              | 1053   | 130             | Non-English specification  |          |
| Fee Paid   | <input type="text" value="125"/>        | 1812                              | 2,520            | 1812   | 2,520           | For filing a request for reexamination                                     |          |
| 1202   | 50                                      | 2202                              | 25               | Claims in excess of 20                                     |                 |  |          |
| 1201   | 200                                     | 2201                              | 100              | Independent claims in excess of 3                          |                 |  |          |
| 1203   | 360                                     | 2204                              | 180              | Multiple dependent claim, if not paid                      |                 |  |          |
| 1204   | 200                                     | 2204                              | 100              | ** Reissue independent claims in excess of three           |                 |  |          |
| 1205   | 50                                      | 2205                              | 25               | ** Reissue claims in excess of 20 and over original patent |                 |  |          |
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|  |   | 1804                              | 920*             | 1804   | 920*            | Requesting publication of SIR prior to Examiner action                     |          |
|  |   | 1805                              | 1,840*           | 1805   | 1,840*          | Requesting publication of SIR after Examiner action                        |          |
|  |   | 1251                              | 120              | 2215   | 60              | Extension for reply within first month                                     |          |
|  |   | 1252                              | 450              | 2252   | 225             | Extension for reply within second month                                    |          |
|  |   | 1253                              | 1,020            | 2253   | 510             | Extension for reply within third month                                     |          |
|  |   | 1254                              | 1,590            | 2254   | 795             | Extension for reply within fourth month                                    |          |
|  |   | 1255                              | 2,160            | 2255   | 1080            | Extension for reply within fifth month                                     |          |
|  |   | 1401                              | 500              | 2401   | 250             | Notice of Appeal   |          |
|  |   | 1402                              | 500              | 2402   | 250             | Filing a brief in support of an appeal                                     |          |
|  |   | 1403                              | 1,000            | 2403   | 500             | Request for oral hearing   |          |
|  |   | 1451                              | 1,510            | 1451   | 1,510           | Petition to institute a public use proceeding                              |          |
|  |   | 1452                              | 500              | 2452   | 250             | Petition to revive - unavoidable   |          |
|  |   | 1453                              | 1,500            | 2453   | 750             | Petition to revive - unintentional   |          |
|  |   | 1501                              | 1,400            | 2501   | 700             | Utility issue fee (or reissue)   |          |
|  |   | 1502                              | 800              | 2502   | 400             | Design issue fee   |          |
|  |   | 1503                              | 1,100            | 2503   | 550             | Plant issue fee  |          |
|  |   | 1807                              | 50               | 1807   | 50              | Processing fee under 37 CFR 1.17 (q)                                       |          |
|  |   | 1806                              | 180              | 1806   | 180             | Submission of Information Disclosure Stmt                                  |          |
|  |   | 8021                              | 40               | 8021   | 40              | Recording each patent assignment per property (times number of properties) | 40       |
|  |   | 1809                              | 790              | 2809   | 395             | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
|  |   | 1810                              | 790              | 2810   | 395             | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
|  |   | 1801                              | 790              | 2801   | 395             | Request for Continued Examination (RCE)                                    |          |
|  |   | Other fee (specify)               |                  |  |                 |  |          |
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|---------------------------------------|-------------------------|------------------------|---------------|--------------|--|
| SUBMITTED BY Complete (if applicable) |                         | Reg No. Attorney/Agent |               | Telephone    |  |
| Name (Print/Type)                     | Jeffrey W. Gluck, Ph.D. | 44,457                 |               | 202-344-4000 |  |
| Signature                             |                         | Date                   | April 5, 2005 |              |  |

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| <b>UTILITY PATENT APPLICATION TRANSMITTAL</b><br><small>(ONLY FOR NEW NONPROVISIONAL APPLICATIONS UNDER 37 CFR 1.53(B))</small> | Attorney Docket No.    | 37112-215811   |
|   | First Inventor         | Peter L. Venetianer                                  |
|   | Title                  | VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES |
|   | Express Mail Label No. |  |

113268 U.S. PTO  
 11/098385

040505

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small> | <b>ADDRESS TO:</b> Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 |
|--|---|

- Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 54]  
Both the claims and abstract must start on a new page  
 (For information on the preferred arrangement, see MPEP 606.01(a))
- Drawing(s) (35 U.S.C. 113) [Total Sheets 19]
- Oath or Declaration [Total Sheets 4]
  - Newly executed (original or copy)
  - A copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - DELETION OF INVENTOR(S)**  
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76
- CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
  - Landscape Table on CD
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. - c. are required)
  - Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - CD-ROM or CD-R (2 copies); or
    - Paper
  - Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

- Assignment Papers (cover sheet & document(s))  
 Name of Assignee:  

ObjectVideo, Inc.
- 37 CFR 3.73(b) Statement (when there is an assignee)  Power of Attorney
- English Translation Document (if applicable)
- Information Disclosure Statement (PTO/SB/08 or PTO-1449)
  - Copies of citations attached
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
- Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
- Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).  
Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: 11/057,154

Prior application information: Examiner Not Yet Assigned Art Unit: N/A

**19. CORRESPONDENCE ADDRESS**

The address associated with Customer Number: 26694 OR  Correspondence address below

|                   |                         |           |  |
|-------------------|-------------------------|-----------|--|
| Name              | VENABLE LLP             |           |  |
| Address           | P.O. Box 34385          |           |  |
| City              | Washington              | State     | D.C.                                     |
|                   |                         | Zip Code  | 20043-9998                               |
| Country           | U.S.A.                  | Telephone | 202-344-8017                             |
|                   |                         | Fax       | 202-344-8300                             |
| Signature         |                         |           |  |
| Date              | April 5, 2005           |           |  |
| Name (Print/Type) | Jeffrey W. Gluck, Ph.D. |           | Registration No. (Attorney/Agent) 44,457 |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

13281 U.S. PTO  
 040505

# FEE TRANSMITTAL for FY 2005

*Patent fees are subject to annual revision.*

*Complete If Known*

|                      |                       |
|----------------------|-----------------------|
| Application Number   | Not Yet Assigned      |
| Filing Date          | Concurrently Herewith |
| First Named Inventor | Peter L. Venetianer   |
| Examiner Name        | Not Yet Assigned      |
| Group / Art Unit     | Not Yet Assigned      |
| Attorney Docket No.  | 37112-215811          |

**TOTAL AMOUNT OF PAYMENT** (\$) **665.00**

| METHOD OF PAYMENT (check one)   | FEE CALCULATION (continued)   |                |                  |  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
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| <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number: <input type="text" value="22-0261"/></p> <p>Deposit Account Name: <input type="text" value="Venable LLP"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17<br/> <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> <p>2. <input type="checkbox"/> Payment Enclosed:<br/> <input type="checkbox"/> Check   <input type="checkbox"/> Credit card   <input type="checkbox"/> Money Order   <input type="checkbox"/> Other</p>   | <p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fee Code</th> <th>Lrg Ent Fee (\$)</th> <th>Fee Code</th> <th>Sm Ent Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1111</td><td>500</td><td>2111</td><td>250</td><td>Utility Search Fee</td><td>250</td></tr> <tr><td>1112</td><td>100</td><td>2112</td><td>50</td><td>Design Search Fee</td><td></td></tr> <tr><td>1113</td><td>300</td><td>2113</td><td>150</td><td>Plant Search Fee</td><td></td></tr> <tr><td>1114</td><td>500</td><td>2114</td><td>250</td><td>Reissue Search Fee</td><td></td></tr> <tr><td>1311</td><td>200</td><td>2311</td><td>100</td><td>Utility Examination Fee</td><td>100</td></tr> <tr><td>1312</td><td>130</td><td>2312</td><td>65</td><td>Design Examination Fee</td><td></td></tr> <tr><td>1313</td><td>160</td><td>2313</td><td>80</td><td>Plant Examination Fee</td><td></td></tr> <tr><td>1314</td><td>600</td><td>2314</td><td>300</td><td>Reissue Examination Fee</td><td></td></tr> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>120</td><td>2215</td><td>60</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>450</td><td>2252</td><td>225</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>1,020</td><td>2253</td><td>510</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,590</td><td>2254</td><td>795</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,160</td><td>2255</td><td>1080</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>500</td><td>2401</td><td>250</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>500</td><td>2402</td><td>250</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>1,000</td><td>2403</td><td>500</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>500</td><td>2452</td><td>250</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,500</td><td>2453</td><td>750</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,400</td><td>2501</td><td>700</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>800</td><td>2502</td><td>400</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>1,100</td><td>2503</td><td>550</td><td>Plant issue fee</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr> <tr><td>1809</td><td>790</td><td>2809</td><td>395</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>790</td><td>2810</td><td>395</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>790</td><td>2801</td><td>395</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td colspan="5">Other fee (specify)</td><td></td></tr> <tr><td colspan="5">*Reduced by Basic Filing Fee Paid</td><td></td></tr> <tr> <td style="text-align: right;"><b>SUBTOTAL (1)</b></td> <td colspan="4"></td> <td style="text-align: right;"><b>(\$)150</b></td> </tr> <tr> <td colspan="6"> <p><b>2. EXTRA CLAIM FEES</b></p> <table style="width: 100%;"> <tr> <td>Total Claims</td> <td><input type="text" value="26"/></td> <td>-20**</td> <td>=</td> <td><input type="text" value="6"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="25"/></td> <td>=</td> <td><input type="text" value="125"/></td> <td>Fee Paid</td> </tr> <tr> <td>Independent Claims</td> <td><input type="text" value="2"/></td> <td>-3**</td> <td>=</td> <td><input type="text" value="0"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="100"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> <tr> <td>Multiple Dependent</td> <td><input type="text" value="0"/></td> <td></td> <td></td> <td></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="180"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> </table> </td> </tr> <tr> <td colspan="6"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity (\$)</th> <th>Small Fee Code</th> <th>Entity (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1202</td><td>50</td><td>2202</td><td>25</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>200</td><td>2201</td><td>100</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>360</td><td>2204</td><td>180</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>200</td><td>2204</td><td>100</td><td>** Reissue independent claims in excess of three</td><td></td></tr> <tr><td>1205</td><td>50</td><td>2205</td><td>25</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (2)</b></td> <td style="text-align: right;"><b>(\$)125</b></td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (3)</b></td> <td style="text-align: right;"><b>(\$)390</b></td> </tr> <tr> <td colspan="6">**or number previously paid, if greater; For Reissues, see above</td> </tr> </tbody> </table> | Fee Code       | Lrg Ent Fee (\$) | Fee Code   | Sm Ent Fee (\$) | Fee Description | Fee Paid                         | 1111           | 500                              | 2111                           | 250          | Utility Search Fee | 250                             | 1112 | 100                              | 2112                   | 50                 | Design Search Fee              |      | 1113 | 300                            | 2113                              | 150 | Plant Search Fee                 |     | 1114                           | 500      | 2114                                  | 250                            | Reissue Search Fee |     | 1311 | 200          | 2311   | 100                              | Utility Examination Fee | 100                            | 1312     | 130 | 2312   | 65 | Design Examination Fee |  | 1313 | 160 | 2313 | 80             | Plant Examination Fee |  | 1314 | 600 | 2314 | 300 | Reissue Examination Fee |  | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath |  | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet. |  | 1053 | 130 | 1053 | 130 | Non-English specification |  | 1812 | 2,520 | 1812 | 2,520 | For filing a request for reexamination |  | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action |  | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action |  | 1251 | 120 | 2215 | 60 | Extension for reply within first month |  | 1252 | 450 | 2252 | 225 | Extension for reply within second month |  | 1253 | 1,020 | 2253 | 510 | Extension for reply within third month |  | 1254 | 1,590 | 2254 | 795 | Extension for reply within fourth month |  | 1255 | 2,160 | 2255 | 1080 | Extension for reply within fifth month |  | 1401 | 500 | 2401 | 250 | Notice of Appeal |  | 1402 | 500 | 2402 | 250 | Filing a brief in support of an appeal |  | 1403 | 1,000 | 2403 | 500 | Request for oral hearing |  | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 500 | 2452 | 250 | Petition to revive - unavoidable |  | 1453 | 1,500 | 2453 | 750 | Petition to revive - unintentional |  | 1501 | 1,400 | 2501 | 700 | Utility issue fee (or reissue) |  | 1502 | 800 | 2502 | 400 | Design issue fee |  | 1503 | 1,100 | 2503 | 550 | Plant issue fee |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17 (q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | 40 | 1809 | 790 | 2809 | 395 | Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 1810 | 790 | 2810 | 395 | For each additional invention to be examined (37 CFR § 1.129(b)) |  | 1801 | 790 | 2801 | 395 | Request for Continued Examination (RCE) |  | Other fee (specify) |  |  |  |  |  | *Reduced by Basic Filing Fee Paid |  |  |  |  |  | <b>SUBTOTAL (1)</b> |  |  |  |  | <b>(\$)150</b> | <p><b>2. EXTRA CLAIM FEES</b></p> <table style="width: 100%;"> <tr> <td>Total Claims</td> <td><input type="text" value="26"/></td> <td>-20**</td> <td>=</td> <td><input type="text" value="6"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="25"/></td> <td>=</td> <td><input type="text" value="125"/></td> <td>Fee Paid</td> </tr> <tr> <td>Independent Claims</td> <td><input type="text" value="2"/></td> <td>-3**</td> <td>=</td> <td><input type="text" value="0"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="100"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> <tr> <td>Multiple Dependent</td> <td><input type="text" value="0"/></td> <td></td> <td></td> <td></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="180"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> </table> |  |  |  |  |  | Total Claims | <input type="text" value="26"/> | -20** | = | <input type="text" value="6"/> | Extra Claims | X | <input type="text" value="25"/> | = | <input type="text" value="125"/> | Fee Paid | Independent Claims | <input type="text" value="2"/> | -3** | = | <input type="text" value="0"/> | Extra Claims | X | <input type="text" value="100"/> | = | <input type="text" value="0"/> | Fee Paid | Multiple Dependent | <input type="text" value="0"/> |  |  |  | Extra Claims | X | <input type="text" value="180"/> | = | <input type="text" value="0"/> | Fee Paid | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity (\$)</th> <th>Small Fee Code</th> <th>Entity (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1202</td><td>50</td><td>2202</td><td>25</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>200</td><td>2201</td><td>100</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>360</td><td>2204</td><td>180</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>200</td><td>2204</td><td>100</td><td>** Reissue independent claims in excess of three</td><td></td></tr> <tr><td>1205</td><td>50</td><td>2205</td><td>25</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (2)</b></td> <td style="text-align: right;"><b>(\$)125</b></td> </tr> </tbody> </table> |  |  |  |  |  | Large Fee Code | Entity (\$) | Small Fee Code | Entity (\$) | Fee Description | Fee Paid | 1202 | 50 | 2202 | 25 | Claims in excess of 20 |  | 1201 | 200 | 2201 | 100 | Independent claims in excess of 3 |  | 1203 | 360 | 2204 | 180 | Multiple dependent claim, if not paid |  | 1204 | 200 | 2204 | 100 | ** Reissue independent claims in excess of three |  | 1205 | 50 | 2205 | 25 | ** Reissue claims in excess of 20 and over original patent |  | <b>SUBTOTAL (2)</b> |  |  |  |  | <b>(\$)125</b> | <b>SUBTOTAL (3)</b> |  |  |  |  | <b>(\$)390</b> | **or number previously paid, if greater; For Reissues, see above |  |  |  |  |  |
| Fee Code  | Lrg Ent Fee (\$)  | Fee Code       | Sm Ent Fee (\$)  | Fee Description  | Fee Paid        |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1111  | 500   | 2111           | 250              | Utility Search Fee   | 250             |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1112  | 100   | 2112           | 50               | Design Search Fee  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1113  | 300   | 2113           | 150              | Plant Search Fee   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1114  | 500   | 2114           | 250              | Reissue Search Fee   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1311  | 200   | 2311           | 100              | Utility Examination Fee  | 100             |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1312  | 130   | 2312           | 65               | Design Examination Fee   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1313  | 160   | 2313           | 80               | Plant Examination Fee  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1314  | 600   | 2314           | 300              | Reissue Examination Fee  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1051  | 130   | 2051           | 65               | Surcharge - late filing fee or oath  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1052  | 50  | 2052           | 25               | Surcharge - late provisional filing fee or cover sheet.                    |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1053  | 130   | 1053           | 130              | Non-English specification  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1812  | 2,520   | 1812           | 2,520            | For filing a request for reexamination                                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1804  | 920*  | 1804           | 920*             | Requesting publication of SIR prior to Examiner action                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1805  | 1,840*  | 1805           | 1,840*           | Requesting publication of SIR after Examiner action                        |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1251  | 120   | 2215           | 60               | Extension for reply within first month                                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1252  | 450   | 2252           | 225              | Extension for reply within second month                                    |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1253  | 1,020   | 2253           | 510              | Extension for reply within third month                                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1254  | 1,590   | 2254           | 795              | Extension for reply within fourth month                                    |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1255  | 2,160   | 2255           | 1080             | Extension for reply within fifth month                                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1401  | 500   | 2401           | 250              | Notice of Appeal   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1402  | 500   | 2402           | 250              | Filing a brief in support of an appeal                                     |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1403  | 1,000   | 2403           | 500              | Request for oral hearing   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1451  | 1,510   | 1451           | 1,510            | Petition to institute a public use proceeding                              |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1452  | 500   | 2452           | 250              | Petition to revive - unavoidable   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1453  | 1,500   | 2453           | 750              | Petition to revive - unintentional   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1501  | 1,400   | 2501           | 700              | Utility issue fee (or reissue)   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1502  | 800   | 2502           | 400              | Design issue fee   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1503  | 1,100   | 2503           | 550              | Plant issue fee  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1807  | 50  | 1807           | 50               | Processing fee under 37 CFR 1.17 (q)                                       |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1806  | 180   | 1806           | 180              | Submission of Information Disclosure Stmt                                  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 8021  | 40  | 8021           | 40               | Recording each patent assignment per property (times number of properties) | 40              |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1809  | 790   | 2809           | 395              | Filing a submission after final rejection (37 CFR § 1.129(a))              |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1810  | 790   | 2810           | 395              | For each additional invention to be examined (37 CFR § 1.129(b))           |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1801  | 790   | 2801           | 395              | Request for Continued Examination (RCE)                                    |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| Other fee (specify)   |   |                |                  |  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| *Reduced by Basic Filing Fee Paid   |   |                |                  |  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| <b>SUBTOTAL (1)</b>   |   |                |                  |  | <b>(\$)150</b>  |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| <p><b>2. EXTRA CLAIM FEES</b></p> <table style="width: 100%;"> <tr> <td>Total Claims</td> <td><input type="text" value="26"/></td> <td>-20**</td> <td>=</td> <td><input type="text" value="6"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="25"/></td> <td>=</td> <td><input type="text" value="125"/></td> <td>Fee Paid</td> </tr> <tr> <td>Independent Claims</td> <td><input type="text" value="2"/></td> <td>-3**</td> <td>=</td> <td><input type="text" value="0"/></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="100"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> <tr> <td>Multiple Dependent</td> <td><input type="text" value="0"/></td> <td></td> <td></td> <td></td> <td>Extra Claims</td> <td>X</td> <td><input type="text" value="180"/></td> <td>=</td> <td><input type="text" value="0"/></td> <td>Fee Paid</td> </tr> </table>   |   |                |                  |  |                 | Total Claims    | <input type="text" value="26"/>  | -20**          | =                                | <input type="text" value="6"/> | Extra Claims | X                  | <input type="text" value="25"/> | =    | <input type="text" value="125"/> | Fee Paid               | Independent Claims | <input type="text" value="2"/> | -3** | =    | <input type="text" value="0"/> | Extra Claims                      | X   | <input type="text" value="100"/> | =   | <input type="text" value="0"/> | Fee Paid | Multiple Dependent                    | <input type="text" value="0"/> |                    |     |      | Extra Claims | X  | <input type="text" value="180"/> | =                       | <input type="text" value="0"/> | Fee Paid |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| Total Claims  | <input type="text" value="26"/>   | -20**          | =                | <input type="text" value="6"/>   | Extra Claims    | X               | <input type="text" value="25"/>  | =              | <input type="text" value="125"/> | Fee Paid                       |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| Independent Claims  | <input type="text" value="2"/>  | -3**           | =                | <input type="text" value="0"/>   | Extra Claims    | X               | <input type="text" value="100"/> | =              | <input type="text" value="0"/>   | Fee Paid                       |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| Multiple Dependent  | <input type="text" value="0"/>  |                |                  |  | Extra Claims    | X               | <input type="text" value="180"/> | =              | <input type="text" value="0"/>   | Fee Paid                       |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity (\$)</th> <th>Small Fee Code</th> <th>Entity (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1202</td><td>50</td><td>2202</td><td>25</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>200</td><td>2201</td><td>100</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>360</td><td>2204</td><td>180</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>200</td><td>2204</td><td>100</td><td>** Reissue independent claims in excess of three</td><td></td></tr> <tr><td>1205</td><td>50</td><td>2205</td><td>25</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (2)</b></td> <td style="text-align: right;"><b>(\$)125</b></td> </tr> </tbody> </table> |   |                |                  |  |                 | Large Fee Code  | Entity (\$)                      | Small Fee Code | Entity (\$)                      | Fee Description                | Fee Paid     | 1202               | 50                              | 2202 | 25                               | Claims in excess of 20 |                    | 1201                           | 200  | 2201 | 100                            | Independent claims in excess of 3 |     | 1203                             | 360 | 2204                           | 180      | Multiple dependent claim, if not paid |                                | 1204               | 200 | 2204 | 100          | ** Reissue independent claims in excess of three |                                  | 1205                    | 50                             | 2205     | 25  | ** Reissue claims in excess of 20 and over original patent |    | <b>SUBTOTAL (2)</b>    |  |      |     |      | <b>(\$)125</b> |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| Large Fee Code  | Entity (\$)   | Small Fee Code | Entity (\$)      | Fee Description  | Fee Paid        |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1202  | 50  | 2202           | 25               | Claims in excess of 20   |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1201  | 200   | 2201           | 100              | Independent claims in excess of 3  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1203  | 360   | 2204           | 180              | Multiple dependent claim, if not paid                                      |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1204  | 200   | 2204           | 100              | ** Reissue independent claims in excess of three                           |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| 1205  | 50  | 2205           | 25               | ** Reissue claims in excess of 20 and over original patent                 |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| <b>SUBTOTAL (2)</b>   |   |                |                  |  | <b>(\$)125</b>  |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| <b>SUBTOTAL (3)</b>   |   |                |                  |  | <b>(\$)390</b>  |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |
| **or number previously paid, if greater; For Reissues, see above  |   |                |                  |  |                 |                 |                                  |                |                                  |                                |              |                    |                                 |      |                                  |                        |                    |                                |      |      |                                |                                   |     |                                  |     |                                |          |                                       |                                |                    |     |      |              |  |                                  |                         |                                |          |     |  |    |                        |  |      |     |      |                |                       |  |      |     |      |     |                         |  |      |     |      |    |                                     |  |      |    |      |    |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |      |        |      |        |   |  |      |     |      |    |  |  |      |     |      |     |   |  |      |       |      |     |  |  |      |       |      |     |   |  |      |       |      |      |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |       |      |     |                          |  |      |       |      |       |   |  |      |     |      |     |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |       |      |     |                 |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |    |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |                     |  |  |  |  |  |                                   |  |  |  |  |  |                     |  |  |  |  |                |   |  |  |  |  |  |              |                                 |       |   |                                |              |   |                                 |   |                                  |          |                    |                                |      |   |                                |              |   |                                  |   |                                |          |                    |                                |  |  |  |              |   |                                  |   |                                |          |   |  |  |  |  |  |                |             |                |             |                 |          |      |    |      |    |                        |  |      |     |      |     |                                   |  |      |     |      |     |                                       |  |      |     |      |     |  |  |      |    |      |    |  |  |                     |  |  |  |  |                |                     |  |  |  |  |                |  |  |  |  |  |  |

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|--|--|--------------------------------------|--|-------------------------------|--|
| <b>SUBMITTED BY</b> Complete (if applicable) |  | <b>Reg No. Attorney/Agent</b> 44,457 |  | <b>Telephone</b> 202-344-4000 |  |
| Name (Print/Type) Jeffrey W. Gluck, Ph.D.    |  |                                      |  |                               |  |
| Signature                                    |  | Date April 5, 2005                   |  |                               |  |

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**APPLICATION FOR UNITED STATES PATENT**

**INVENTORS:** PÉTER L. VENETIANER, McLean, Virginia  
ALAN J. LIPTON, Herndon, Virginia  
ANDREW J. CHOSAK, Arlington, Virginia  
MATTHEW F. FRAZIER, Arlington, Virginia  
NIELS HAERING, Reston, Virginia  
GARY W. MYERS, Ashburn, Virginia  
WEIHONG YIN, Herndon, Virginia  
ZHONG ZHANG, Herndon, Virginia

**TITLE:** VIDEO SURVEILLANCE SYSTEM EMPLOYING  
VIDEO PRIMITIVES

**ATTORNEYS/AGENTS:**

VENABLE LLP  
Post Office Box 34385  
Washington, DC 20043-9998  
Telephone: (202) 344-4000  
Facsimile: (202) 344-8300

**ATTORNEY DOCKET NO.:**

37112-215811

## **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES**

### **CROSS-REFERENCE TO RELATED APPLICATIONS**

[1] This application is a continuation-in-part of U.S. Patent Application No. 11/057,154, filed on February 15, 2005, which is a continuation-in-part of U.S. Patent Application No. 09/987,707, filed on November 15, 2001, which claims the priority of U.S. Patent Application No. 09/694,712, filed on October 24, 2000, all of which are incorporated herein by reference.

### **BACKGROUND OF THE INVENTION**

#### **Field of the Invention**

[2] The invention relates to a system for automatic video surveillance employing video primitives.

#### **References**

[3] For the convenience of the reader, the references referred to herein are listed below. In the specification, the numerals within brackets refer to respective references. The listed references are incorporated herein by reference.

[4] The following references describe moving target detection:

[5] {1} A. Lipton, H. Fujiyoshi and R. S. Patil, "Moving Target Detection and Classification from Real-Time Video," Proceedings of IEEE WACV '98, Princeton, NJ, 1998, pp. 8-14.

[6] {2} W.E.L. Grimson, et al., "Using Adaptive Tracking to Classify and Monitor Activities in a Site", CVPR, pp. 22-29, June 1998.

- [7] {3} A.J. Lipton, H. Fujiyoshi, R.S. Patil, "Moving Target Classification and Tracking from Real-time Video," IUW, pp. 129-136, 1998.
- [8] {4} T.J. Olson and F.Z. Brill, "Moving Object Detection and Event Recognition Algorithm for Smart Cameras," IUW, pp. 159-175, May 1997.
- [9] The following references describe detecting and tracking humans:
- [10] {5} A. J. Lipton, "Local Application of Optical Flow to Analyse Rigid Versus Non-Rigid Motion," International Conference on Computer Vision, Corfu, Greece, September 1999.
- [11] {6} F. Bartolini, V. Cappellini, and A. Mecocci, "Counting people getting in and out of a bus by real-time image-sequence processing," IVC, 12(1):36-41, January 1994.
- [12] {7} M. Rossi and A. Bozzoli, "Tracking and counting moving people," ICIP94, pp. 212-216, 1994.
- [13] {8} C.R. Wren, A. Azarbayejani, T. Darrell, and A. Pentland, "Pfinder: Real-time tracking of the human body," Vismod, 1995.
- [14] {9} L. Khoudour, L. Duvioubourg, J.P. Deparis, "Real-Time Pedestrian Counting by Active Linear Cameras," JEL, 5(4):452-459, October 1996.
- [15] {10} S. Ioffe, D.A. Forsyth, "Probabilistic Methods for Finding People," IJCV, 43(1):45-68, June 2001.
- [16] {11} M. Isard and J. MacCormick, "BraMBLe: A Bayesian Multiple-Blob Tracker," ICCV, 2001.
- [17] The following references describe blob analysis:
- [18] {12} D.M. Gavrilu, "The Visual Analysis of Human Movement: A Survey," CVIU, 73(1):82-98, January 1999.

[19] {13} Niels Haering and Niels da Vitoria Lobo, "Visual Event Detection," Video Computing Series, Editor Mubarak Shah, 2001.

[20] The following references describe blob analysis for trucks, cars, and people:

[21] {14} Collins, Lipton, Kanade, Fujiyoshi, Duggins, Tsin, Tolliver, Enomoto, and Hasegawa, "A System for Video Surveillance and Monitoring: VSAM Final Report," Technical Report CMU-RI-TR-00-12, Robotics Institute, Carnegie Mellon University, May 2000.

[22] {15} Lipton, Fujiyoshi, and Patil, "Moving Target Classification and Tracking from Real-time Video," 98 Darpa IUW, Nov. 20-23, 1998.

[23] The following reference describes analyzing a single-person blob and its contours:

[24] {16} C.R. Wren, A. Azarbayejani, T. Darrell, and A.P. Pentland. "Pfinder: Real-Time Tracking of the Human Body," PAMI, vol 19, pp. 780-784, 1997.

[25] The following reference describes internal motion of blobs, including any motion-based segmentation:

[26] {17} M. Allmen and C. Dyer, "Long--Range Spatiotemporal Motion Understanding Using Spatiotemporal Flow Curves," Proc. IEEE CVPR, Lahaina, Maui, Hawaii, pp. 303-309, 1991.

[27] {18} L. Wixson, "Detecting Salient Motion by Accumulating Directionally Consistent Flow", IEEE Trans. Pattern Anal. Mach. Intell., vol. 22, pp. 774-781, Aug, 2000.

### **Background of the Invention**

[28] Video surveillance of public spaces has become extremely widespread and accepted by the general public. Unfortunately, conventional video surveillance systems produce



such prodigious volumes of data that an intractable problem results in the analysis of video surveillance data.

[29] A need exists to reduce the amount of video surveillance data so analysis of the video surveillance data can be conducted.

[30] A need exists to filter video surveillance data to identify desired portions of the video surveillance data.

### **SUMMARY OF THE INVENTION**

[31] An object of the invention is to reduce the amount of video surveillance data so analysis of the video surveillance data can be conducted.

[32] An object of the invention is to filter video surveillance data to identify desired portions of the video surveillance data.

[33] An object of the invention is to produce a real time alarm based on an automatic detection of an event from video surveillance data.

[34] An object of the invention is to integrate data from surveillance sensors other than video for improved searching capabilities.

[35] An object of the invention is to integrate data from surveillance sensors other than video for improved event detection capabilities

[36] The invention includes an article of manufacture, a method, a system, and an apparatus for video surveillance.

[37] The article of manufacture of the invention includes a computer-readable medium comprising software for a video surveillance system, comprising code segments for operating the video surveillance system based on video primitives.

[38] The article of manufacture of the invention includes a computer-readable medium comprising software for a video surveillance system, comprising code segments for accessing archived video primitives, and code segments for extracting event occurrences from accessed archived video primitives.

[39] The system of the invention includes a computer system including a computer-readable medium having software to operate a computer in accordance with the invention.

[40] The apparatus of the invention includes a computer including a computer-readable medium having software to operate the computer in accordance with the invention.

[41] The article of manufacture of the invention includes a computer-readable medium having software to operate a computer in accordance with the invention.

[42] Moreover, the above objects and advantages of the invention are illustrative, and not exhaustive, of those that can be achieved by the invention. Thus, these and other objects and advantages of the invention will be apparent from the description herein, both as embodied herein and as modified in view of any variations which will be apparent to those skilled in the art.

### **Definitions**

[43] A “video” refers to motion pictures represented in analog and/or digital form. Examples of video include: television, movies, image sequences from a video camera or other observer, and computer-generated image sequences.

[44] A “frame” refers to a particular image or other discrete unit within a video.

[45] An “object” refers to an item of interest in a video. Examples of an object include: a person, a vehicle, an animal, and a physical subject.

[46] An “activity” refers to one or more actions and/or one or more composites of actions of one or more objects. Examples of an activity include: entering; exiting; stopping; moving; raising; lowering; growing; and shrinking.

[47] A “location” refers to a space where an activity may occur. A location can be, for example, scene-based or image-based. Examples of a scene-based location include: a public space; a store; a retail space; an office; a warehouse; a hotel room; a hotel lobby; a lobby of a building; a casino; a bus station; a train station; an airport; a port; a bus; a train; an airplane; and a ship. Examples of an image-based location include: a video image; a line in a video image; an area in a video image; a rectangular section of a video image; and a polygonal section of a video image.

[48] An “event” refers to one or more objects engaged in an activity. The event may be referenced with respect to a location and/or a time.

[49] A “computer” refers to any apparatus that is capable of accepting a structured input, processing the structured input according to prescribed rules, and producing results of the processing as output. Examples of a computer include: a computer; a general purpose computer; a supercomputer; a mainframe; a super mini-computer; a mini-computer; a workstation; a micro-computer; a server; an interactive television; a hybrid combination of a computer and an interactive television; and application-specific hardware to emulate a computer and/or software. A computer can have a single processor or multiple processors, which can operate in parallel and/or not in parallel. A computer also refers to two or more computers connected together via a network for transmitting or receiving information between the computers. An example of such a computer includes a distributed computer system for processing information via computers linked by a network.

[50] A “computer-readable medium” refers to any storage device used for storing data accessible by a computer. Examples of a computer-readable medium include: a magnetic hard disk; a floppy disk; an optical disk, such as a CD-ROM and a DVD; a magnetic tape; a memory chip; and a carrier wave used to carry computer-readable electronic data, such as those used in transmitting and receiving e-mail or in accessing a network.

[51] “Software” refers to prescribed rules to operate a computer. Examples of software include: software; code segments; instructions; computer programs; and programmed logic.

[52] A “computer system” refers to a system having a computer, where the computer comprises a computer-readable medium embodying software to operate the computer.

[53] A “network” refers to a number of computers and associated devices that are connected by communication facilities. A network involves permanent connections such as cables or temporary connections such as those made through telephone or other communication links. Examples of a network include: an internet, such as the Internet; an intranet; a local area network (LAN); a wide area network (WAN); and a combination of networks, such as an internet and an intranet.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

[54] Embodiments of the invention are explained in greater detail by way of the drawings, where the same reference numerals refer to the same features.

[55] Figure 1 illustrates a plan view of the video surveillance system of the invention.

[56] Figure 2 illustrates a flow diagram for the video surveillance system of the invention.

[57] Figure 3 illustrates a flow diagram for tasking the video surveillance system.

[58] Figure 4 illustrates a flow diagram for operating the video surveillance system.

[59] Figure 5 illustrates a flow diagram for extracting video primitives for the video surveillance system.

[60] Figure 6 illustrates a flow diagram for taking action with the video surveillance system.

[61] Figure 7 illustrates a flow diagram for semi-automatic calibration of the video surveillance system.

[62] Figure 8 illustrates a flow diagram for automatic calibration of the video surveillance system.

[63] Figure 9 illustrates an additional flow diagram for the video surveillance system of the invention.

[64] Figures 10-15 illustrate examples of the video surveillance system of the invention applied to monitoring a grocery store.

[65] Figure 16a shows a flow diagram of a video analysis subsystem according to an embodiment of the invention.

[66] Figure 16b shows the flow diagram of the event occurrence detection and response subsystem according to an embodiment of the invention.

[67] Figure 17 shows exemplary database queries.

[68] Figure 18 shows three exemplary activity detectors according to various embodiments of the invention: detecting tripwire crossings (Figure 18a), loitering (Figure 18b) and theft (Figure 18c).

[69] Figure 19 shows an activity detector query according to an embodiment of the invention.

[70] Figure 20 shows an exemplary query using activity detectors and Boolean operators with modifiers, according to an embodiment of the invention.

[71] Figures 21a and 21b show an exemplary query using multiple levels of combinators, activity detectors, and property queries.

[72] Figure 22 shows an exemplary configuration of a video surveillance system according to an embodiment of the invention.

[73] Figure 23 shows another exemplary configuration of a video surveillance system according to an embodiment of the invention.

[74] Figure 24 shows another exemplary configuration of a video surveillance system according to an embodiment of the invention.

[75] Figure 25 shows a network that may be used in exemplary configurations of embodiments of the invention.

### **DETAILED DESCRIPTION OF THE INVENTION**

[76] The automatic video surveillance system of the invention is for monitoring a location for, for example, market research or security purposes. The system can be a dedicated video surveillance installation with purpose-built surveillance components, or the system can be a retrofit to existing video surveillance equipment that piggybacks off the surveillance video feeds. The system is capable of analyzing video data from live sources or from recorded media. The system is capable of processing the video data in real-time, and storing the extracted video primitives to allow very high speed forensic event detection later. The system can have a

prescribed response to the analysis, such as record data, activate an alarm mechanism, or activate another sensor system. The system is also capable of integrating with other surveillance system components. The system may be used to produce, for example, security or market research reports that can be tailored according to the needs of an operator and, as an option, can be presented through an interactive web-based interface, or other reporting mechanism.

[77] An operator is provided with maximum flexibility in configuring the system by using event discriminators. Event discriminators are identified with one or more objects (whose descriptions are based on video primitives), along with one or more optional spatial attributes, and/or one or more optional temporal attributes. For example, an operator can define an event discriminator (called a "loitering" event in this example) as a "person" object in the "automatic teller machine" space for "longer than 15 minutes" and "between 10:00 p.m. and 6:00 a.m." Event discriminators can be combined with modified Boolean operators to form more complex queries.

[78] Although the video surveillance system of the invention draws on well-known computer vision techniques from the public domain, the inventive video surveillance system has several unique and novel features that are not currently available. For example, current video surveillance systems use large volumes of video imagery as the primary commodity of information interchange. The system of the invention uses video primitives as the primary commodity with representative video imagery being used as collateral evidence. The system of the invention can also be calibrated (manually, semi-automatically, or automatically) and thereafter automatically can infer video primitives from video imagery. The system can further analyze previously processed video without needing to reprocess completely the video. By analyzing previously processed video, the system can perform inference analysis based on

previously recorded video primitives, which greatly improves the analysis speed of the computer system.

[79] The use of video primitives may also significantly reduce the storage requirements for the video. This is because the event detection and response subsystem uses the video only to illustrate the detections. Consequently, video may be stored or transmitted at a lower quality. In a potential embodiment, the video may be stored or transmitted only when activity is detected, not all the time. In another potential embodiment, the quality of the stored or transmitted video may be dependent on whether activity is detected: video can be stored or transmitted at higher quality (higher frame-rate and/or bit-rate) when activity is detected and at lower quality at other times. In another exemplary embodiment, the video storage and database may be handled separately, e.g., by a digital video recorder (DVR), and the video processing subsystem may just control whether data is stored and with what quality. In another embodiment, the video surveillance system (or components thereof) may be on a processing device (such as general purpose processor, DSP, microcontroller, ASIC, FPGA, or other device) on board a video management device such as a digital video camera, network video server, DVR, or Network Video Recorder (NVR), and the bandwidth of video streamed from the device can be modulated by the system. High quality video (high bit-rate or frame-rate) need only be transmitted through an IP video network only when activities of interest are detected. In this embodiment, primitives from intelligence-enabled devices can be broadcast via a network to multiple activity inference applications at physically different locations to enable a single camera network to provide multi-purpose applications through decentralized processing.

[80] Figure 22 shows one configuration of an implementation of the video surveillance system. Block 221 represents a raw (uncompressed) digital video input. This can be obtained, for



example, through analog to digital capture of an analog video signal or decoding of a digital video signal. Block 222 represents a hardware platform housing the main components of the video surveillance system (video content analysis – block 225 – and activity inference – block 226). The hardware platform may contain other components such as an operating system (block 223); a video encoder (block 224) that compresses raw digital video for video streaming or storage using any available compression scheme (JPEG, MJPEG, MPEG1, MPEG2, MPEG4, H.263, H.264, Wavelet, or any other); a storage mechanism (block 227) for maintaining data such as video, compressed video, alerts, and video primitives – this storage device may be, for example, a hard-disk, on-board RAM, on-board FLASH memory, or other storage medium; and a communications layer (block 228) which may, for example, packetize and/or digitize data for transmission over a communication channel (block 229).

[81] There may be other software components residing on computational platforms at other nodes of a network to which communications channel 229 connects. Block 2210 shows a rule management tool which is a user interface for creating video surveillance rules. Block 2211 shows an alert console for displaying alerts and reports to a user. Block 2212 shows a storage device (such as DVR, NVR, or PC) for storing alerts, primitives, and video for further after-the-fact processing.

[82] Components on the hardware platform (block 222) may be implemented on any processing hardware (general purpose processor, microcontroller, DSP, ASIC, FPGA, or other processing device) on any video capture, processing, or management device such as a video camera, digital video camera, IP video camera, IP video server, digital video recorder (DVR), network video recorder (NVR), PC, laptop, or other device. There are a number of different possible modes of operation for this configuration.

[83] In one mode, the system is programmed to look for specific events. When those events occur, alerts are transmitted via the communication channel (block 229) to other systems.

[84] In another mode, video is streamed from the video device while it is analyzing the video data. When events occur, alerts are transmitted via the communication channel (block 229).

[85] In another mode, video encoding and streaming is modulated by the content analysis and activity inference. When there is no activity present (no primitives are being generated), no video (or low quality, bit-rate, frame rate, resolution) is being streamed. When some activity is present (primitives are being generated), higher quality, bit-rate, frame rate, resolution video is streamed. When events of interest are detected by the event inference, very high quality, bit-rate, frame rate, resolution video is streamed.

[86] In another mode of operation, information is stored in the on-board storage device (block 227). Stored data may consist of digital video (raw or compressed), video primitives, alerts, or other information. The stored video quality may also be controlled by the presence of primitives or alerts. When there are primitives and alerts, higher quality, bit-rate, frame rate, resolution video may be stored.

[87] Figure 23 shows another configuration of an implementation of the video surveillance system. Block 231 represents a raw (uncompressed) digital video input. This can be obtained, for example, through analog to digital capture of an analog video signal or decoding of a digital video signal. Block 232 represents a hardware platform housing the analysis component of the video surveillance system (block 235). The hardware platform may contain other components such as an operating system (block 233); a video encoder (block 234) that compresses raw digital video for video streaming or storage using any available compression

scheme (JPEG, MJPEG, MPEG1, MPEG2, MPEG4, H.263, H.264, Wavelet, or any other); a storage mechanism (block 236) for maintaining data such as video, compressed video, alerts, and video primitives – this storage device may be, for example, a hard-disk, on-board RAM, on-board FLASH memory, or other storage medium; and a communications layer (block 237) that may, for example, packetize and/or digitize data for transmission over a communication channel (block 238). In the embodiment of the invention shown in Figure 23, the activity inference component (block 2311) is shown on a separate hardware component (block 239) connected to a network to which communication channel 238 connects.

[88] There may also be other software components residing on computational platforms at other nodes of this network (block 239). Block 2310 shows a rule management tool, which is a user interface for creating video surveillance rules. Block 2312 shows an alert console for displaying alerts and reports to a user. Block 2313 shows a storage device that could be physically located on the same hardware platform (such as a hard disk, floppy disk, other magnetic disk, CD, DVD, other optical disk, MD or other magneto-optical disk, solid state storage device such as RAM or FLASH RAM, or other storage device) or may be a separate storage device (such as external disk drive, PC, laptop, DVR, NVR, or other storage device).

[89] Components on the hardware platform (block 222) may be implemented on any processing platform (general purpose processor, microcontroller, DSP, FPGA, ASIC or any other processing platform) on any video capture, processing, or management device such as a video camera, digital video camera, IP video camera, IP video server, digital video recorder (DVR), network video recorder (NVR), PC, laptop, or other device. Components on the back-end hardware platform (block 239) may be implemented on any processing hardware (general purpose processor, microcontroller, DSP, FPGA, ASIC, or any other device) on any processing

device such as PC, laptop, single-board computer, DVR, NVR, video server, network router, hand-held device (such as video phone, pager, or PDA). There are a number of different possible modes of operation for this configuration.

[90] In one mode, the system is programmed on the back-end device (or any other device connected to the back-end device) to look for specific events. The content analysis module (block 235) on the video processing platform (block 232) generates primitives that are transmitted to the back-end processing platform (block 239). The event inference module (block 2311) determines if the rules have been violated and generates alerts that can be displayed on an alert console (block 2312) or stored in a storage device (block 2313) for later analysis.

[91] In another mode, video primitives and video can be stored in a storage device on the back-end platform (2313) for later analysis.

[92] In another mode, stored video quality, bit-rate, frame rate, resolution can be modulated by alerts. When there is an alert, video can be stored at higher quality, bit-rate, frame rate, resolution.

[93] In another mode, video primitives can be stored on the video processing device (block 236 in block 232) for later analysis via the communication channel.

[94] In another mode, the quality of the video stored on the video processing device (in block 236 in block 232) may be modulated by the presence of primitives. When there are primitives (when something is happening) the quality, bit-rate, frame rate, resolution of the stored video can be increased.

[95] In another mode, video can be streamed from the video processor via the encoder (234) to other devices on the network, via communication channel 238.

[96] In another mode, video quality can be modulated by the content analysis module (235). When there are no primitives (nothing is happening), no (or low quality, bit-rate, frame rate, resolution) video is streamed. When there is activity, higher quality, bit-rate, frame rate, resolution video is streamed.

[97] In another mode, streamed video quality, bit-rate, frame rate, resolution can be modulated by the presence of alerts. When the back end event inference module (block 2311) detects an event of interest, it can send a signal or command to the video processing component (block 232) requesting video (or higher quality, bit-rate, frame rate, resolution video). When this request is received, the video compression component (block 234) and communication layer (block 237) can change compression and streaming parameters.

[98] In another mode the quality of video stored on board the video processing device (block 236 in block 232) can be modulated by the presence of alerts. When an alert is generated by the event inference module (block 2311) on the back end processor (block 239) it can send a message via the communication channel (block 238) to the video processor hardware (block 232) to increase the quality, bit-rate, frame rate, resolution of the video stored in the on board storage device (238).

[99] Figure 24 shows an extension of the configuration described in Figure 23. By separating the functionality of video content analysis and back end activity inference, it is possible to enable a multi-purpose intelligent video surveillance system through the process of late application binding. A single network of intelligence-enabled cameras can broadcast a single stream of video primitives to separate back-end applications in different parts of an organization (at different physical locations) and achieve multiple functions. This is possible because the primitive stream contains information about everything going on in the scene and is not tied to

specific application areas. The example depicted in Figure 24 pertains to a retail environment but is illustrative of the principal in general and is applicable to any other application areas and any other surveillance functionality. Block 241 shows an intelligence-enabled network of one or more video cameras within a facility or across multiple facilities. The content analysis component or components may reside on a processing device inside the cameras, in video servers, in network routers, on DVRs, on NVRs, on PCs, on laptops or any other video processing device connected to the network. From these content analysis components, streams of primitives are broadcast via standard networks to activity inference modules on back end processors (blocks 242-245) residing in physically different areas used for different purposes. The back end processors may be in computers, laptops, DVRs, NVRs, network routers, handheld devices (phones, pagers, PDAs) or other computing devices. One advantage to this decentralization is that there need not be a central processing application that must be programmed to do all the processing for all possible applications. Another advantage is security so that one part of an organization can perform activity inference on rules that are stored locally so that no one else in the network has access to that information.

[100] In block 242 the primitive stream from the intelligent camera network is analyzed for physical security applications: to determine if there has been a perimeter breach, vandalism, and to protect critical assets. Of course, these applications are merely exemplary, and any other application is possible.

[101] In block 243 the primitive stream from the intelligent camera network is analyzed for loss prevention applications: to monitor a loading dock; to watch for customer or employee theft, to monitor a warehouse, and to track stock. Of course, these applications are merely exemplary, and any other application is possible.

[102] In block 244 the primitive stream from the intelligent camera network is analyzed for public safety and liability applications: to monitor for people or vehicle moving too fast in parking lots, to watch for people slipping and falling, and to monitor crowds in and around the facility. Of course, these applications are merely exemplary, and any other application is possible.

[103] In block 245 the primitive stream from the intelligent camera network is analyzed for business intelligence applications: to watch the lengths of queues, to track consumer behavior, to learn patterns of behavior, to perform building management tasks such as controlling lighting and heating when there are no people present. Of course, these applications are merely exemplary, and any other application is possible.

[104] Figure 25 shows a network (block 251) with a number of potential intelligence-enabled devices connected to it. Block 252 is an IP camera with content analysis components on board that can stream primitives over a network. Block 253 is an IP camera with both content analysis and activity inference components on board that can be programmed directly with rules and will generate network alerts directly. Block 254 is a standard analog camera with no intelligent components on board; but it is connected to an IP video management platform (block 256) that performs video digitization and compression as well as content analysis and activity inference. It can be programmed with view-specific rules and is capable of transmitting primitive streams and alerts via a network. Block 255 is a DVR with activity inference components that is capable of ingesting primitive streams from other devices and generating alerts. Block 257 is a handheld PDA enabled with wireless network communications that has activity inference algorithms on board and is capable of accepting video primitives from the network and displaying alerts. Block 258 is complete intelligent video analysis system capable of accepting

analog or digital video streams, performing content analysis and activity inference and displaying alerts on a series of alert consoles.

[105] As another example, the system of the invention provides unique system tasking. Using equipment control directives, current video systems allow a user to position video sensors and, in some sophisticated conventional systems, to mask out regions of interest or disinterest. Equipment control directives are instructions to control the position, orientation, and focus of video cameras. Instead of equipment control directives, the system of the invention uses event discriminators based on video primitives as the primary tasking mechanism. With event discriminators and video primitives, an operator is provided with a much more intuitive approach over conventional systems for extracting useful information from the system. Rather than tasking a system with an equipment control directives, such as “camera A pan 45 degrees to the left,” the system of the invention can be tasked in a human-intuitive manner with one or more event discriminators based on video primitives, such as “a person enters restricted area A.”

[106] Using the invention for market research, the following are examples of the type of video surveillance that can be performed with the invention: counting people in a store; counting people in a part of a store; counting people who stop in a particular place in a store; measuring how long people spend in a store; measuring how long people spend in a part of a store; and measuring the length of a line in a store.

[107] Using the invention for security, the following are examples of the type of video surveillance that can be performed with the invention: determining when anyone enters a restricted area and storing associated imagery; determining when a person enters an area at unusual times; determining when changes to shelf space and storage space occur that might be unauthorized; determining when passengers aboard an aircraft approach the cockpit; determining



when people tailgate through a secure portal; determining if there is an unattended bag in an airport; and determining if there is a theft of an asset.

[108] An exemplary application area may be access control, which may include, for example: detecting if a person climbs over a fence, or enters a prohibited area; detecting if someone moves in the wrong direction (e.g., at an airport, entering a secure area through the exit); determining if a number of objects detected in an area of interest does not match an expected number based on RFID tags or card-swipes for entry, indicating the presence of unauthorized personnel. This may also be useful in a residential application, where the video surveillance system may be able to differentiate between the motion of a person and pet, thus eliminating most false alarms. Note that in many residential applications, privacy may be of concern; for example, a homeowner may not wish to have another person remotely monitoring the home and to be able to see what is in the house and what is happening in the house. Therefore, in some embodiments used in such applications, the video processing may be performed locally, and optional video or snapshots may be sent to one or more remote monitoring stations only when necessary (for example, but not limited to, detection of criminal activity or other dangerous situations).

[109] Another exemplary application area may be asset monitoring. This may mean detecting if an object is taken away from the scene, for example, if an artifact is removed from a museum. In a retail environment asset monitoring can have several aspects to it and may include, for example: detecting if a single person takes a suspiciously large number of a given item; determining if a person exits through the entrance, particularly if doing this while pushing a shopping cart; determining if a person applies a non-matching price tag to an item, for example,

filling a bag with the most expensive type of coffee but using a price tag for a less expensive type; or detecting if a person leaves a loading dock with large boxes.

[110] Another exemplary application area may be for safety purposes. This may include, for example: detecting if a person slips and falls, e.g., in a store or in a parking lot; detecting if a car is driving too fast in a parking lot; detecting if a person is too close to the edge of the platform at a train or subway station while there is no train at the station; detecting if a person is on the rails; detecting if a person is caught in the door of a train when it starts moving; or counting the number of people entering and leaving a facility, thus keeping a precise headcount, which can be very important in case of an emergency.

[111] Another exemplary application area may be traffic monitoring. This may include detecting if a vehicle stopped, especially in places like a bridge or a tunnel, or detecting if a vehicle parks in a no parking area.

[112] Another exemplary application area may be terrorism prevention. This may include, in addition to some of the previously-mentioned applications, detecting if an object is left behind in an airport concourse, if an object is thrown over a fence, or if an object is left at a rail track; detecting a person loitering or a vehicle circling around critical infrastructure; or detecting a fast-moving boat approaching a ship in a port or in open waters.

[113] Another exemplary application area may be in care for the sick and elderly, even in the home. This may include, for example, detecting if the person falls; or detecting unusual behavior, like the person not entering the kitchen for an extended period of time.

[114] Figure 1 illustrates a plan view of the video surveillance system of the invention. A computer system 11 comprises a computer 12 having a computer-readable medium 13 embodying software to operate the computer 12 according to the invention. The computer

system 11 is coupled to one or more video sensors 14, one or more video recorders 15, and one or more input/output (I/O) devices 16. The video sensors 14 can also be optionally coupled to the video recorders 15 for direct recording of video surveillance data. The computer system is optionally coupled to other sensors 17.

[115] The video sensors 14 provide source video to the computer system 11. Each video sensor 14 can be coupled to the computer system 11 using, for example, a direct connection (e.g., a firewire digital camera interface) or a network. The video sensors 14 can exist prior to installation of the invention or can be installed as part of the invention. Examples of a video sensor 14 include: a video camera; a digital video camera; a color camera; a monochrome camera; a camera; a camcorder, a PC camera; a webcam; an infra-red video camera; and a CCTV camera.

[116] The video recorders 15 receive video surveillance data from the computer system 11 for recording and/or provide source video to the computer system 11. Each video recorder 15 can be coupled to the computer system 11 using, for example, a direct connection or a network. The video recorders 15 can exist prior to installation of the invention or can be installed as part of the invention. The video surveillance system in the computer system 11 may control when and with what quality setting a video recorder 15 records video. Examples of a video recorder 15 include: a video tape recorder; a digital video recorder; a network video recorder; a video disk; a DVD; and a computer-readable medium. The system may also modulate the bandwidth and quality of video streamed over a network by controlling a video encoder and streaming protocol. When activities of interest are detected, higher bit-rate, frame-rate, or resolution imagery may be encoded and streamed.

[117] The I/O devices 16 provide input to and receive output from the computer system 11. The I/O devices 16 can be used to task the computer system 11 and produce reports from the computer system 11. Examples of I/O devices 16 include: a keyboard; a mouse; a stylus; a monitor; a printer; another computer system; a network; and an alarm.

[118] The other sensors 17 provide additional input to the computer system 11. Each other sensor 17 can be coupled to the computer system 11 using, for example, a direct connection or a network. The other sensors 17 can exist prior to installation of the invention or can be installed as part of the invention. Examples of another sensor 17 include, but are not limited to: a motion sensor; an optical tripwire; a biometric sensor; an RFID sensor; and a card-based or keypad-based authorization system. The outputs of the other sensors 17 can be recorded by the computer system 11, recording devices, and/or recording systems.

[119] Figure 2 illustrates a flow diagram for the video surveillance system of the invention. Various aspects of the invention are exemplified with reference to Figures 10-15, which illustrate examples of the video surveillance system of the invention applied to monitoring a grocery store.

[120] In block 21, the video surveillance system is set up as discussed for Figure 1. Each video sensor 14 is orientated to a location for video surveillance. The computer system 11 is connected to the video feeds from the video equipment 14 and 15. The video surveillance system can be implemented using existing equipment or newly installed equipment for the location.

[121] In block 22, the video surveillance system is calibrated. Once the video surveillance system is in place from block 21, calibration occurs. The result of block 22 is the ability of the video surveillance system to determine an approximate absolute size and speed of a

particular object (e.g., a person) at various places in the video image provided by the video sensor. The system can be calibrated using manual calibration, semi-automatic calibration, and automatic calibration. Calibration is further described after the discussion of block 24.

[122] In block 23 of Figure 2, the video surveillance system is tasked. Tasking occurs after calibration in block 22 and is optional. Tasking the video surveillance system involves specifying one or more event discriminators. Without tasking, the video surveillance system operates by detecting and archiving video primitives and associated video imagery without taking any action, as in block 45 in Figure 4.

[123] Figure 3 illustrates a flow diagram for tasking the video surveillance system to determine event discriminators. An event discriminator refers to one or more objects optionally interacting with one or more spatial attributes and/or one or more temporal attributes. An event discriminator is described in terms of video primitives (also called activity description meta-data). Some of the video primitive design criteria include the following: capability of being extracted from the video stream in real-time; inclusion of all relevant information from the video; and conciseness of representation.

[124] Real-time extraction of the video primitives from the video stream is desirable to enable the system to be capable of generating real-time alerts, and to do so, since the video provides a continuous input stream, the system cannot fall behind.

[125] The video primitives should also contain all relevant information from the video, since at the time of extracting the video primitives, the user-defined rules are not known to the system. Therefore, the video primitives should contain information to be able to detect any event specified by the user, without the need for going back to the video and reanalyzing it.

[126] A concise representation is also desirable for multiple reasons. One goal of the proposed invention may be to extend the storage recycle time of a surveillance system. This may be achieved by replacing storing good quality video all the time by storing activity description meta-data and video with quality dependent on the presence of activity, as discussed above. Hence, the more concise the video primitives are, the more data can be stored. In addition, the more concise the video primitive representation, the faster the data access becomes, and this, in turn may speed up forensic searching.

[127] The exact contents of the video primitives may depend on the application and potential events of interest. Some exemplary embodiments are described below

[128] An exemplary embodiment of the video primitives may include scene/video descriptors, describing the overall scene and video. In general, this may include a detailed description of the appearance of the scene, e.g., the location of sky, foliage, man-made objects, water, etc; and/or meteorological conditions, e.g., the presence/absence of precipitation, fog, etc. For a video surveillance application, for example, a change in the overall view may be important. Exemplary descriptors may describe sudden lighting changes; they may indicate camera motion, especially the facts that the camera started or stopped moving, and in the latter case, whether it returned to its previous view or at least to a previously known view; they may indicate changes in the quality of the video feed, e.g., if it suddenly became noisier or went dark, potentially indicating tampering with the feed; or they may show a changing waterline along a body of water (for further information on specific approaches to this latter problem, one may consult, for example, co-pending U.S. Patent Application No. 10/954,479, filed on October 1, 2004, and incorporated herein by reference).

[129] Another exemplary embodiment of the video primitives may include object descriptors referring to an observable attribute of an object viewed in a video feed. What information is stored about an object may depend on the application area and the available processing capabilities. Exemplary object descriptors may include generic properties including, but not limited to, size, shape, perimeter, position, trajectory, speed and direction of motion, motion salience and its features, color, rigidity, texture, and/or classification. The object descriptor may also contain some more application and type specific information: for humans, this may include the presence and ratio of skin tone, gender and race information, some human body model describing the human shape and pose; or for vehicles, it may include type (e.g., truck, SUV, sedan, bike, etc.), make, model, license plate number. The object descriptor may also contain activities, including, but not limited to, carrying an object, running, walking, standing up, or raising arms. Some activities, such as talking, fighting or colliding, may also refer to other objects. The object descriptor may also contain identification information, including, but not limited to, face or gait.

[130] Another exemplary embodiment of the video primitives may include flow descriptors describing the direction of motion of every area of the video. Such descriptors may, for example, be used to detect passback events, by detecting any motion in a prohibited direction (for further information on specific approaches to this latter problem, one may consult, for example, co-pending U.S. Patent Application No. 10/766,949, filed on January 30, 2004, and incorporated herein by reference).

[131] Primitives may also come from non-video sources, such as audio sensors, heat sensors, pressure sensors, card readers, RFID tags, biometric sensors, etc.

[132] A classification refers to an identification of an object as belonging to a particular category or class. Examples of a classification include: a person; a dog; a vehicle; a police car; an individual person; and a specific type of object.

[133] A size refers to a dimensional attribute of an object. Examples of a size include: large; medium; small; flat; taller than 6 feet; shorter than 1 foot; wider than 3 feet; thinner than 4 feet; about human size; bigger than a human; smaller than a human; about the size of a car; a rectangle in an image with approximate dimensions in pixels; and a number of image pixels.

[134] Position refers to a spatial attribute of an object. The position may be, for example, an image position in pixel coordinates, an absolute real-world position in some world coordinate system, or a position relative to a landmark or another object.

[135] A color refers to a chromatic attribute of an object. Examples of a color include: white; black; grey; red; a range of HSV values; a range of YUV values; a range of RGB values; an average RGB value; an average YUV value; and a histogram of RGB values.

[136] Rigidity refers to a shape consistency attribute of an object. The shape of non-rigid objects (e.g., people or animals) may change from frame to frame, while that of rigid objects (e.g., vehicles or houses) may remain largely unchanged from frame to frame (except, perhaps, for slight changes due to turning).

[137] A texture refers to a pattern attribute of an object. Examples of texture features include: self-similarity; spectral power; linearity; and coarseness.

[138] An internal motion refers to a measure of the rigidity of an object. An example of a fairly rigid object is a car, which does not exhibit a great amount of internal motion. An example of a fairly non-rigid object is a person having swinging arms and legs, which exhibits a great amount of internal motion.



[139] A motion refers to any motion that can be automatically detected. Examples of a motion include: appearance of an object; disappearance of an object; a vertical movement of an object; a horizontal movement of an object; and a periodic movement of an object.

[140] A salient motion refers to any motion that can be automatically detected and can be tracked for some period of time. Such a moving object exhibits apparently purposeful motion. Examples of a salient motion include: moving from one place to another; and moving to interact with another object.

[141] A feature of a salient motion refers to a property of a salient motion. Examples of a feature of a salient motion include: a trajectory; a length of a trajectory in image space; an approximate length of a trajectory in a three-dimensional representation of the environment; a position of an object in image space as a function of time; an approximate position of an object in a three-dimensional representation of the environment as a function of time; a duration of a trajectory; a velocity (e.g., speed and direction) in image space; an approximate velocity (e.g., speed and direction) in a three-dimensional representation of the environment; a duration of time at a velocity; a change of velocity in image space; an approximate change of velocity in a three-dimensional representation of the environment; a duration of a change of velocity; cessation of motion; and a duration of cessation of motion. A velocity refers to the speed and direction of an object at a particular time. A trajectory refers a set of (position, velocity) pairs for an object for as long as the object can be tracked or for a time period.

[142] A scene change refers to any region of a scene that can be detected as changing over a period of time. Examples of a scene change include: an stationary object leaving a scene; an object entering a scene and becoming stationary; an object changing position in a scene; and an object changing appearance (e.g. color, shape, or size).

[143] A feature of a scene change refers to a property of a scene change. Examples of a feature of a scene change include: a size of a scene change in image space; an approximate size of a scene change in a three-dimensional representation of the environment; a time at which a scene change occurred; a location of a scene change in image space; and an approximate location of a scene change in a three-dimensional representation of the environment.

[144] A pre-defined model refers to an *a priori* known model of an object. Examples of a pre-defined model may include: an adult; a child; a vehicle; and a semi-trailer.

[145] Figure 16a shows an exemplary video analysis portion of a video surveillance system according to an embodiment of the invention. In Figure 16a, a video sensor (for example, but not limited to, a video camera) 1601 may provide a video stream 1602 to a video analysis subsystem 1603. Video analysis subsystem 1603 may then perform analysis of the video stream 1602 to derive video primitives, which may be stored in primitive storage 1605. Primitive storage 1605 may be used to store non-video primitives, as well. Video analysis subsystem 1603 may further control storage of all or portions of the video stream 1602 in video storage 1604, for example, quality and/or quantity of video, as discussed above.

[146] Referring now to Figure 16b, once the video, and, if there are other sensors, the non-video primitives 161 are available, the system may detect events. The user tasks the system by defining rules 163 and corresponding responses 164 using the rule and response definition interface 162. The rules are translated into event discriminators, and the system extracts corresponding event occurrences 165. The detected event occurrences 166 trigger user defined responses 167. A response may include a snapshot of a video of the detected event from video storage 168 (which may or may not be the same as video storage 1604 in Figure 16a). The video storage 168 may be part of the video surveillance system, or it may be a separate recording

device 15. Examples of a response may include, but are not necessarily limited to, the following: activating a visual and/or audio alert on a system display; activating a visual and/or audio alarm system at the location; activating a silent alarm; activating a rapid response mechanism; locking a door; contacting a security service; forwarding or streaming data (e.g., image data, video data, video primitives; and/or analyzed data) to another computer system via a network, such as, but not limited to, the Internet; saving such data to a designated computer-readable medium; activating some other sensor or surveillance system; tasking the computer system 11 and/or another computer system; and/or directing the computer system 11 and/or another computer system.

[147] The primitive data can be thought of as data stored in a database. To detect event occurrences in it, an efficient query language is required. Embodiments of the inventive system may include an activity inferencing language, which will be described below.

[148] Traditional relational database querying schemas often follow a Boolean binary tree structure to allow users to create flexible queries on stored data of various types. Leaf nodes are usually of the form “property relationship value,” where a property is some key feature of the data (such as time or name); a relationship is usually a numerical operator (“>”, “<”, “=”, etc); and a value is a valid state for that property. Branch nodes usually represent unary or binary Boolean logic operators like “and”, “or”, and “not”.

[149] This may form the basis of an activity query formulation schema, as in embodiments of the present invention. In case of a video surveillance application, the properties may be features of the object detected in the video stream, such as size, speed, color, classification (human, vehicle), or the properties may be scene change properties. Figure 17 gives examples of using such queries. In Figure 17a, the query, “Show me any red vehicle,” 171

is posed. This may be decomposed into two “property relationship value” (or simply “property”) queries, testing whether the classification of an object is vehicle 173 and whether its color is predominantly red 174. These two sub-queries can be combined with the Boolean operator “and” 172. Similarly, in Figure 17b, the query, “Show me when a camera starts or stops moving,” may be expressed as the Boolean “or” 176 combination of the property sub-queries, “has the camera started moving” 177 and “has the camera stopped moving” 178.

[150] Embodiments of the invention may extend this type of database query schema in two exemplary ways: (1) the basic leaf nodes may be augmented with activity detectors describing spatial activities within a scene; and (2) the Boolean operator branch nodes may be augmented with modifiers specifying spatial, temporal and object interrelationships.

[151] Activity detectors correspond to a behavior related to an area of the video scene. They describe how an object might interact with a location in the scene. Figure 18 illustrates three exemplary activity detectors. Figure 18a represents the behavior of crossing a perimeter in a particular direction using a virtual video tripwire (for further information about how such virtual video tripwires may be implemented, one may consult, e.g., U.S. Patent No. 6,696,945). Figure 18b represents the behavior of loitering for a period of time on a railway track. Figure 18c represents the behavior of taking something away from a section of wall (for exemplary approaches to how this may be done, one may consult U.S. Patent Application No. 10/331,778, entitled, “Video Scene Background Maintenance - Change Detection & Classification,” filed on January 30, 2003). Other exemplary activity detectors may include detecting a person falling, detecting a person changing direction or speed, detecting a person entering an area, or detecting a person going in the wrong direction.

[152] Figure 19 illustrates an example of how an activity detector leaf node (here, tripwire crossing) can be combined with simple property queries to detect whether a red vehicle crosses a video tripwire 191. The property queries 172, 173, 174 and the activity detector 193 are combined with a Boolean “and” operator 192.

[153] Combining queries with modified Boolean operators (combinators) may add further flexibility. Exemplary modifiers include spatial, temporal, object, and counter modifiers.

[154] A spatial modifier may cause the Boolean operator to operate only on child activities (i.e., the arguments of the Boolean operator, as shown below a Boolean operator, e.g., in Figure 19) that are proximate/non-proximate within the scene. For example, “and – within 50 pixels of” may be used to mean that the “and” only applies if the distance between activities is less than 50 pixels.

[155] A temporal modifier may cause the Boolean operator to operate only on child activities that occur within a specified period of time of each other, outside of such a time period, or within a range of times. The time ordering of events may also be specified. For example “and – first within 10 seconds of second” may be used to mean that the “and” only applies if the second child activity occurs not more than 10 seconds after the first child activity.

[156] An object modifier may cause the Boolean operator to operate only on child activities that occur involving the same or different objects. For example “and – involving the same object” may be used to mean that the “and” only applies if the two child activities involve the same specific object.

[157] A counter modifier may cause the Boolean operator to be triggered only if the condition(s) is/are met a prescribed number of times. A counter modifier may generally include a numerical relationship, such as “at least  $n$  times,” “exactly  $n$  times,” “at most  $n$  times,” etc. For

example, “or – at least twice” may be used to mean that at least two of the sub-queries of the “or” operator have to be true. Another use of the counter modifier may be to implement a rule like “alert if the same person takes at least five items from a shelf.”

[158] Figure 20 illustrates an example of using combinators. Here, the required activity query is to “find a red vehicle making an illegal left turn” 201. The illegal left turn may be captured through a combination of activity descriptors and modified Boolean operators. One virtual tripwire may be used to detect objects coming out of the side street 193, and another virtual tripwire may be used to detect objects traveling to the left along the road 205. These may be combined by a modified “and” operator 202. The standard Boolean “and” operator guarantees that both activities 193 and 205 have to be detected. The object modifier 203 checks that the same object crossed both tripwires, while the temporal modifier 204 checks that the bottom-to-top tripwire 193 is crossed first, followed by the crossing of the right-to-left tripwire 205 no more than 10 seconds later.

[159] This example also indicates the power of the combinators. Theoretically it is possible to define a separate activity detector for left turn, without relying on simple activity detectors and combinators. However, that detector would be inflexible, making it difficult to accommodate arbitrary turning angles and directions, and it would also be cumbersome to write a separate detector for all potential events. In contrast, using the combinators and simple detectors provides great flexibility.

[160] Other examples of complex activities that can be detected as a combination of simpler ones may include a car parking and a person getting out of the car or multiple people forming a group, tailgating. These combinators can also combine primitives of different types and sources. Examples may include rules such as “show a person inside a room before the lights

are turned off;" "show a person entering a door without a preceding card-swipe;" or "show if an area of interest has more objects than expected by an RFID tag reader," i.e., an illegal object without an RFID tag is in the area.

[161] A combinator may combine any number of sub-queries, and it may even combine other combinators, to arbitrary depths. An example, illustrated in Figures 21a and 21b, may be a rule to detect if a car turns left 2101 and then turns right 2104. The left turn 2101 may be detected with the directional tripwires 2102 and 2103, while the right turn 2104 with the directional tripwires 2105 and 2106. The left turn may be expressed as the tripwire activity detectors 2112 and 2113, corresponding to tripwires 2102 and 2103, respectively, joined with the "and" combinator 2111 with the object modifier "same" 2117 and temporal modifier "2112 before 2113" 2118. Similarly, the right turn may be expressed as the tripwire activity detectors 2115 and 2116, corresponding to tripwires 2105 and 2106, respectively, joined with the "and" combinator 2114 with the object modifier "same" 2119 and temporal modifier "2115 before 2116" 2120. To detect that the same object turned first left then right, the left turn detector 2111 and the right turn detector 2114 are joined with the "and" combinator 2121 with the object modifier "same" 2122 and temporal modifier "2111 before 2114" 2123. Finally, to ensure that the detected object is a vehicle, a Boolean "and" operator 2125 is used to combine the left-and-right-turn detector 2121 and the property query 2124.

[162] All these detectors may optionally be combined with temporal attributes. Examples of a temporal attribute include: every 15 minutes; between 9:00pm and 6:30am; less than 5 minutes; longer than 30 seconds; and over the weekend.

[163] In block 24 of Figure 2, the video surveillance system is operated. The video surveillance system of the invention operates automatically, detects and archives video

primitives of objects in the scene, and detects event occurrences in real time using event discriminators. In addition, action is taken in real time, as appropriate, such as activating alarms, generating reports, and generating output. The reports and output can be displayed and/or stored locally to the system or elsewhere via a network, such as the Internet. Figure 4 illustrates a flow diagram for operating the video surveillance system.

[164] In block 41, the computer system 11 obtains source video from the video sensors 14 and/or the video recorders 15.

[165] In block 42, video primitives are extracted in real time from the source video. As an option, non-video primitives can be obtained and/or extracted from one or more other sensors 17 and used with the invention. The extraction of video primitives is illustrated with Figure 5.

[166] Figure 5 illustrates a flow diagram for extracting video primitives for the video surveillance system. Blocks 51 and 52 operate in parallel and can be performed in any order or concurrently. In block 51, objects are detected via movement. Any motion detection algorithm for detecting movement between frames at the pixel level can be used for this block. As an example, the three frame differencing technique can be used, which is discussed in {1}. The detected objects are forwarded to block 53.

[167] In block 52, objects are detected via change. Any change detection algorithm for detecting changes from a background model can be used for this block. An object is detected in this block if one or more pixels in a frame are deemed to be in the foreground of the frame because the pixels do not conform to a background model of the frame. As an example, a stochastic background modeling technique, such as dynamically adaptive background subtraction, can be used, which is described in {1} and U.S. Patent Application No. 09/694,712 filed October 24, 2000. The detected objects are forwarded to block 53.



[168] The motion detection technique of block 51 and the change detection technique of block 52 are complimentary techniques, where each technique advantageously addresses deficiencies in the other technique. As an option, additional and/or alternative detection schemes can be used for the techniques discussed for blocks 51 and 52. Examples of an additional and/or alternative detection scheme include the following: the Pfinder detection scheme for finding people as described in {8}; a skin tone detection scheme; a face detection scheme; and a model-based detection scheme. The results of such additional and/or alternative detection schemes are provided to block 53.

[169] As an option, if the video sensor 14 has motion (e.g., a video camera that sweeps, zooms, and/or translates), an additional block can be inserted before blocks between blocks 51 and 52 to provide input to blocks 51 and 52 for video stabilization. Video stabilization can be achieved by affine or projective global motion compensation. For example, image alignment described in U.S. Patent Application No. 09/609,919, filed July 3, 2000, now U.S. Patent No. 6,738,424, which is incorporated herein by reference, can be used to obtain video stabilization.

[170] In block 53, blobs are generated. In general, a blob is any object in a frame. Examples of a blob include: a moving object, such as a person or a vehicle; and a consumer product, such as a piece of furniture, a clothing item, or a retail shelf item. Blobs are generated using the detected objects from blocks 32 and 33. Any technique for generating blobs can be used for this block. An exemplary technique for generating blobs from motion detection and change detection uses a connected components scheme. For example, the morphology and connected components algorithm can be used, which is described in {1}.

[171] In block 54, blobs are tracked. Any technique for tracking blobs can be used for this block. For example, Kalman filtering or the CONDENSATION algorithm can be used. As

another example, a template matching technique, such as described in {1}, can be used. As a further example, a multi-hypothesis Kalman tracker can be used, which is described in {5}. As yet another example, the frame-to-frame tracking technique described in U.S. Patent Application No. 09/694,712 filed October 24, 2000, can be used. For the example of a location being a grocery store, examples of objects that can be tracked include moving people, inventory items, and inventory moving appliances, such as shopping carts or trolleys.

[172] As an option, blocks 51-54 can be replaced with any detection and tracking scheme, as is known to those of ordinary skill. An example of such a detection and tracking scheme is described in {11}.

[173] In block 55, each trajectory of the tracked objects is analyzed to determine if the trajectory is salient. If the trajectory is insalient, the trajectory represents an object exhibiting unstable motion or represents an object of unstable size or color, and the corresponding object is rejected and is no longer analyzed by the system. If the trajectory is salient, the trajectory represents an object that is potentially of interest. A trajectory is determined to be salient or insalient by applying a salience measure to the trajectory. Techniques for determining a trajectory to be salient or insalient are described in {13} and {18}.

[174] In block 56, each object is classified. The general type of each object is determined as the classification of the object. Classification can be performed by a number of techniques, and examples of such techniques include using a neural network classifier {14} and using a linear discriminant classifier {14}. Examples of classification are the same as those discussed for block 23.

[175] In block 57, video primitives are identified using the information from blocks 51-56 and additional processing as necessary. Examples of video primitives identified are the same

as those discussed for block 23. As an example, for size, the system can use information obtained from calibration in block 22 as a video primitive. From calibration, the system has sufficient information to determine the approximate size of an object. As another example, the system can use velocity as measured from block 54 as a video primitive.

[176] In block 43, the video primitives from block 42 are archived. The video primitives can be archived in the computer-readable medium 13 or another computer-readable medium. Along with the video primitives, associated frames or video imagery from the source video can be archived. This archiving step is optional; if the system is to be used only for real-time event detection, the archiving step can be skipped.

[177] In block 44, event occurrences are extracted from the video primitives using event discriminators. The video primitives are determined in block 42, and the event discriminators are determined from tasking the system in block 23. The event discriminators are used to filter the video primitives to determine if any event occurrences occurred. For example, an event discriminator can be looking for a “wrong way” event as defined by a person traveling the “wrong way” into an area between 9:00a.m. and 5:00p.m. The event discriminator checks all video primitives being generated according to Figure 5 and determines if any video primitives exist which have the following properties: a timestamp between 9:00a.m. and 5:00p.m., a classification of “person” or “group of people”, a position inside the area, and a “wrong” direction of motion. The event discriminators may also use other types of primitives, as discussed above, and/or combine video primitives from multiple video sources to detect event occurrences.

[178] In block 45, action is taken for each event occurrence extracted in block 44, as appropriate. Figure 6 illustrates a flow diagram for taking action with the video surveillance system.

[179] In block 61, responses are undertaken as dictated by the event discriminators that detected the event occurrences. The responses, if any, are identified for each event discriminator in block 34.

[180] In block 62, an activity record is generated for each event occurrence that occurred. The activity record includes, for example: details of a trajectory of an object; a time of detection of an object; a position of detection of an object, and a description or definition of the event discriminator that was employed. The activity record can include information, such as video primitives, needed by the event discriminator. The activity record can also include representative video or still imagery of the object(s) and/or area(s) involved in the event occurrence. The activity record is stored on a computer-readable medium.

[181] In block 63, output is generated. The output is based on the event occurrences extracted in block 44 and a direct feed of the source video from block 41. The output is stored on a computer-readable medium, displayed on the computer system 11 or another computer system, or forwarded to another computer system. As the system operates, information regarding event occurrences is collected, and the information can be viewed by the operator at any time, including real time. Examples of formats for receiving the information include: a display on a monitor of a computer system; a hard copy; a computer-readable medium; and an interactive web page.

[182] The output can include a display from the direct feed of the source video from block 41 transmitted either via analog video transmission means or via network video streaming.

For example, the source video can be displayed on a window of the monitor of a computer system or on a closed-circuit monitor. Further, the output can include source video marked up with graphics to highlight the objects and/or areas involved in the event occurrence. If the system is operating in forensic analysis mode, the video may come from the video recorder.

[183] The output can include one or more reports for an operator based on the requirements of the operator and/or the event occurrences. Examples of a report include: the number of event occurrences which occurred; the positions in the scene in which the event occurrence occurred; the times at which the event occurrences occurred; representative imagery of each event occurrence; representative video of each event occurrence; raw statistical data; statistics of event occurrences (e.g., how many, how often, where, and when); and/or human-readable graphical displays.

[184] Figures 13 and 14 illustrate an exemplary report for the aisle in the grocery store of Figure 15. In Figures 13 and 14, several areas are identified in block 22 and are labeled accordingly in the images. The areas in Figure 13 match those in Figure 12, and the areas in Figure 14 are different ones. The system is tasked to look for people who stop in the area.

[185] In Figure 13, the exemplary report is an image from a video marked-up to include labels, graphics, statistical information, and an analysis of the statistical information. For example, the area identified as coffee has statistical information of an average number of customers in the area of 2/hour and an average dwell time in the area as 5 seconds. The system determined this area to be a “cold” region, which means there is not much commercial activity through this region. As another example, the area identified as sodas has statistical information of an average number of customers in the area of 15/hour and an average dwell time in the area

as 22 seconds. The system determined this area to be a “hot” region, which means there is a large amount of commercial activity in this region.

[186] In Figure 14, the exemplary report is an image from a video marked-up to include labels, graphics, statistical information, and an analysis of the statistical information. For example, the area at the back of the aisle has average number of customers of 14/hour and is determined to have low traffic. As another example, the area at the front of the aisle has average number of customers of 83/hour and is determined to have high traffic.

[187] For either Figure 13 or Figure 14, if the operator desires more information about any particular area or any particular area, a point-and-click interface allows the operator to navigate through representative still and video imagery of regions and/or activities that the system has detected and archived.

[188] Figure 15 illustrates another exemplary report for an aisle in a grocery store. The exemplary report includes an image from a video marked-up to include labels and trajectory indications and text describing the marked-up image. The system of the example is tasked with searching for a number of areas: length, position, and time of a trajectory of an object; time and location an object was immobile; correlation of trajectories with areas, as specified by the operator; and classification of an object as not a person, one person, two people, and three or more people.

[189] The video image of Figure 15 is from a time period where the trajectories were recorded. Of the three objects, two objects are each classified as one person, and one object is classified as not a person. Each object is assigned a label, namely Person ID 1032, Person ID 1033, and Object ID 32001. For Person ID 1032, the system determined the person spent 52 seconds in the area and 18 seconds at the position designated by the circle. For Person ID 1033,

the system determined the person spent 1 minute and 8 seconds in the area and 12 seconds at the position designated by the circle. The trajectories for Person ID 1032 and Person ID 1033 are included in the marked-up image. For Object ID 32001, the system did not further analyze the object and indicated the position of the object with an X.

[190] Referring back to block 22 in Figure 2, calibration can be (1) manual, (2) semi-automatic using imagery from a video sensor or a video recorder, or (3) automatic using imagery from a video sensor or a video recorder. If imagery is required, it is assumed that the source video to be analyzed by the computer system 11 is from a video sensor that obtained the source video used for calibration.

[191] For manual calibration, the operator provides to the computer system 11 the orientation and internal parameters for each of the video sensors 14 and the placement of each video sensor 14 with respect to the location. The computer system 11 can optionally maintain a map of the location, and the placement of the video sensors 14 can be indicated on the map. The map can be a two-dimensional or a three-dimensional representation of the environment. In addition, the manual calibration provides the system with sufficient information to determine the approximate size and relative position of an object.

[192] Alternatively, for manual calibration, the operator can mark up a video image from the sensor with a graphic representing the appearance of a known-sized object, such as a person. If the operator can mark up an image in at least two different locations, the system can infer approximate camera calibration information.

[193] For semi-automatic and automatic calibration, no knowledge of the camera parameters or scene geometry is required. From semi-automatic and automatic calibration, a

lookup table is generated to approximate the size of an object at various areas in the scene, or the internal and external camera calibration parameters of the camera are inferred.

[194] For semi-automatic calibration, the video surveillance system is calibrated using a video source combined with input from the operator. A single person is placed in the field of view of the video sensor to be semi-automatic calibrated. The computer system 11 receives source video regarding the single person and automatically infers the size of person based on this data. As the number of locations in the field of view of the video sensor that the person is viewed is increased, and as the period of time that the person is viewed in the field of view of the video sensor is increased, the accuracy of the semi-automatic calibration is increased.

[195] Figure 7 illustrates a flow diagram for semi-automatic calibration of the video surveillance system. Block 71 is the same as block 41, except that a typical object moves through the scene at various trajectories. The typical object can have various velocities and be stationary at various positions. For example, the typical object moves as close to the video sensor as possible and then moves as far away from the video sensor as possible. This motion by the typical object can be repeated as necessary.

[196] Blocks 72-75 are the same as blocks 51-54, respectively.

[197] In block 76, the typical object is monitored throughout the scene. It is assumed that the only (or at least the most) stable object being tracked is the calibration object in the scene (i.e., the typical object moving through the scene). The size of the stable object is collected for every point in the scene at which it is observed, and this information is used to generate calibration information.

[198] In block 77, the size of the typical object is identified for different areas throughout the scene. The size of the typical object is used to determine the approximate sizes of



similar objects at various areas in the scene. With this information, a lookup table is generated matching typical apparent sizes of the typical object in various areas in the image, or internal and external camera calibration parameters are inferred. As a sample output, a display of stick-sized figures in various areas of the image indicate what the system determined as an appropriate height. Such a stick-sized figure is illustrated in Figure 11.

[199] For automatic calibration, a learning phase is conducted where the computer system 11 determines information regarding the location in the field of view of each video sensor. During automatic calibration, the computer system 11 receives source video of the location for a representative period of time (e.g., minutes, hours or days) that is sufficient to obtain a statistically significant sampling of objects typical to the scene and thus infer typical apparent sizes and locations.

[200] Figure 8 illustrates a flow diagram for automatic calibration of the video surveillance system. Blocks 81-86 are the same as blocks 71-76 in Figure 7.

[201] In block 87, trackable regions in the field of view of the video sensor are identified. A trackable region refers to a region in the field of view of a video sensor where an object can be easily and/or accurately tracked. An untrackable region refers to a region in the field of view of a video sensor where an object is not easily and/or accurately tracked and/or is difficult to track. An untrackable region can be referred to as being an unstable or insalient region. An object may be difficult to track because the object is too small (e.g., smaller than a predetermined threshold), appear for too short of time (e.g., less than a predetermined threshold), or exhibit motion that is not salient (e.g., not purposeful). A trackable region can be identified using, for example, the techniques described in {13}.

[202] Figure 10 illustrates trackable regions determined for an aisle in a grocery store. The area at the far end of the aisle is determined to be insalient because too many confusers appear in this area. A confuser refers to something in a video that confuses a tracking scheme. Examples of a confuser include: leaves blowing; rain; a partially occluded object; and an object that appears for too short of time to be tracked accurately. In contrast, the area at the near end of the aisle is determined to be salient because good tracks are determined for this area.

[203] In block 88, the sizes of the objects are identified for different areas throughout the scene. The sizes of the objects are used to determine the approximate sizes of similar objects at various areas in the scene. A technique, such as using a histogram or a statistical median, is used to determine the typical apparent height and width of objects as a function of location in the scene. In one part of the image of the scene, typical objects can have a typical apparent height and width. With this information, a lookup table is generated matching typical apparent sizes of objects in various areas in the image, or the internal and external camera calibration parameters can be inferred.

[204] Figure 11 illustrates identifying typical sizes for typical objects in the aisle of the grocery store from Figure 10. Typical objects are assumed to be people and are identified by a label accordingly. Typical sizes of people are determined through plots of the average height and average width for the people detected in the salient region. In the example, plot A is determined for the average height of an average person, and plot B is determined for the average width for one person, two people, and three people.

[205] For plot A, the x-axis depicts the height of the blob in pixels, and the y-axis depicts the number of instances of a particular height, as identified on the x-axis, that occur. The peak of the line for plot A corresponds to the most common height of blobs in the designated

region in the scene and, for this example, the peak corresponds to the average height of a person standing in the designated region.

[206] Assuming people travel in loosely knit groups, a similar graph to plot A is generated for width as plot B. For plot B, the x-axis depicts the width of the blobs in pixels, and the y-axis depicts the number of instances of a particular width, as identified on the x-axis, that occur. The peaks of the line for plot B correspond to the average width of a number of blobs. Assuming most groups contain only one person, the largest peak corresponds to the most common width, which corresponds to the average width of a single person in the designated region. Similarly, the second largest peak corresponds to the average width of two people in the designated region, and the third largest peak corresponds to the average width of three people in the designated region.

[207] Figure 9 illustrates an additional flow diagram for the video surveillance system of the invention. In this additional embodiment, the system analyzes archived video primitives with event discriminators to generate additional reports, for example, without needing to review the entire source video. Anytime after a video source has been processed according to the invention, video primitives for the source video are archived in block 43 of Figure 4. The video content can be reanalyzed with the additional embodiment in a relatively short time because only the video primitives are reviewed and because the video source is not reprocessed. This provides a great efficiency improvement over current state-of-the-art systems because processing video imagery data is extremely computationally expensive, whereas analyzing the small-sized video primitives abstracted from the video is extremely computationally cheap. As an example, the following event discriminator can be generated: "The number of people stopping for more than 10 minutes in area A in the last two months." With the additional embodiment, the last two

months of source video does not need to be reviewed. Instead, only the video primitives from the last two months need to be reviewed, which is a significantly more efficient process.

[208] Block 91 is the same as block 23 in Figure 2.

[209] In block 92, archived video primitives are accessed. The video primitives are archived in block 43 of Figure 4.

[210] Blocks 93 and 94 are the same as blocks 44 and 45 in Figure 4.

[211] As an exemplary application, the invention can be used to analyze retail market space by measuring the efficacy of a retail display. Large sums of money are injected into retail displays in an effort to be as eye-catching as possible to promote sales of both the items on display and subsidiary items. The video surveillance system of the invention can be configured to measure the effectiveness of these retail displays.

[212] For this exemplary application, the video surveillance system is set up by orienting the field of view of a video sensor towards the space around the desired retail display. During tasking, the operator selects an area representing the space around the desired retail display. As a discriminator, the operator defines that he or she wishes to monitor people-sized objects that enter the area and either exhibit a measurable reduction in velocity or stop for an appreciable amount of time.

[213] After operating for some period of time, the video surveillance system can provide reports for market analysis. The reports can include: the number of people who slowed down around the retail display; the number of people who stopped at the retail display; the breakdown of people who were interested in the retail display as a function of time, such as how many were interested on weekends and how many were interested in evenings; and video snapshots of the people who showed interest in the retail display. The market research

information obtained from the video surveillance system can be combined with sales information from the store and customer records from the store to improve the analysts understanding of the efficacy of the retail display.

[214] The embodiments and examples discussed herein are non-limiting examples.

[215] The invention is described in detail with respect to preferred embodiments, and it will now be apparent from the foregoing to those skilled in the art that changes and modifications may be made without departing from the invention in its broader aspects, and the invention, therefore, as defined in the claims is intended to cover all such changes and modifications as fall within the true spirit of the invention.

## CLAIMS

What is claimed is:

1. A video processing apparatus comprising:  
a video content analysis module to analyze an input video sequence and to derive at least one video primitive; and  
a video encoder to receive said input video sequence and to output compressed video.
  
2. The apparatus according to Claim 1, further comprising:  
a storage module coupled to said video content analysis module to store at least one of the group consisting of a video primitive and at least one video frame.
  
3. The apparatus according to Claim 1, further comprising:  
a communications module coupled to said video content analysis module and to said video encoder to facilitate communication of at least one of the group consisting of said compressed video and at least one video primitive.
  
4. The apparatus according to Claim 1, further comprising:  
an event inference module coupled to said video content analysis module to detect at least one event.
  
5. The apparatus according to Claim 4, wherein said event inference module is further to generate at least one alert.

6. The apparatus according to Claim 5, further comprising:  
a communications module coupled to said video encoder and to said event inference module to facilitate communication of at least one of the group consisting of said compressed video and at least one alert.

7. The apparatus according to Claim 4, further comprising:  
a communications module coupled to said video encoder and to said event inference module to facilitate communication of said compressed video.

8. The apparatus according to Claim 4, further comprising:  
a communications module coupled to said event inference module to receive at least one event rule and to provide the at least one event rule to said event inference module.

9. A video analysis system comprising:  
the apparatus according to Claim 4; and  
a rules management tool located remotely from said apparatus and coupled to said apparatus to provide at least one event rule to said event inference module.

10. The system according to Claim 9, further comprising:  
an alert unit located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video and an alert.

11. The system according to Claim 9, further comprising:

a storage module located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video, a video primitive, and an alert.

12. A video analysis system comprising:  
the apparatus according to Claim 1; and  
an event inference unit located remotely from said apparatus and coupled to said apparatus, the event inference unit to detect at least one event based on said at least one video primitive generated by said apparatus.

13. The system according to Claim 12, further comprising:  
a rules management tool located remotely from said apparatus and coupled to said event inference module to provide at least one event rule to said event inference module.

14. The system according to Claim 12, further comprising:  
an alert unit located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video and an alert.

15. The system according to Claim 12, further comprising:  
a storage module located remotely from said apparatus and coupled to receive at least one of the group consisting of compressed video, a video primitive, and an alert.

16. A video analysis system comprising:



at least two of the apparatuses according to Claim 1, said at least one video primitive of each of said apparatuses being combined into a single video primitive stream; and

at least two event inference units located remotely from said apparatuses, each of said event inference units coupled to said apparatuses to receive said single video primitive stream, each of the event inference units to detect at least one event based on said single video primitive stream.

17. The system according to Claim 16, wherein each of said at least two event inference units is adapted to detect a different type of event.

18. A method of video processing comprising:

detecting whether or not there are one or more activities in a video sequence;

encoding a video sequence to obtain encoded video; and

transmitting said encoded video;

wherein at least one of the group consisting of said encoding and said transmitting depends upon at least one result of said detecting.

19. The method according to Claim 18, wherein said detecting comprises:

analyzing said video sequence to obtain at least one of the group consisting of a video primitive and a detected video event.

20. The method according to Claim 18, wherein said transmitting is performed only if said detecting determines that at least one activity is present in said video sequence.

21. The method according to Claim 20, wherein said encoding is performed only if said detecting determines that at least one activity is present in said video sequence.

22. The method according to Claim 18, wherein a parameter of said encoding is adjusted based upon at least one result of said detecting.

23. The method according to Claim 18, wherein a parameter of said transmitting is adjusted based upon at least one result of said detecting.

24. The method according to Claim 18, wherein, based upon at least one result of said detecting, at least one of the group consisting of the following is adjusted: bit-rate for said encoding; frame-rate for said encoding; bit-rate for said transmitting; frame-rate for said transmitting; resolution for said encoding; and resolution for said transmitting.

25. A computer-readable medium containing instructions that when executed by a computer system cause said computer system to implement the method according to Claim 18.

26. A video processing system comprising:  
the computer-readable medium according to Claim 25; and  
a computer coupled to said computer-readable medium to execute the instructions contained on said computer-readable medium.

**ABSTRACT OF THE DISCLOSURE**

A video surveillance system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

DC2-635031

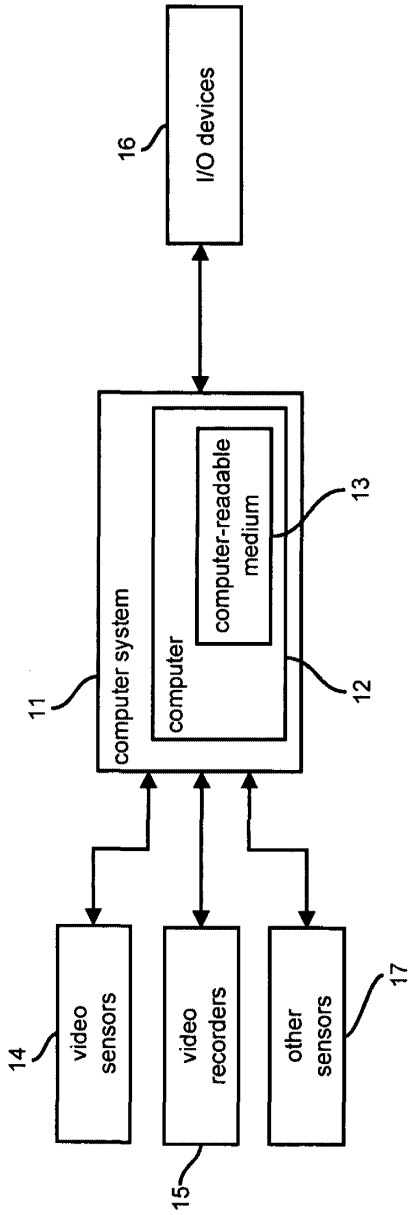


FIG. 1

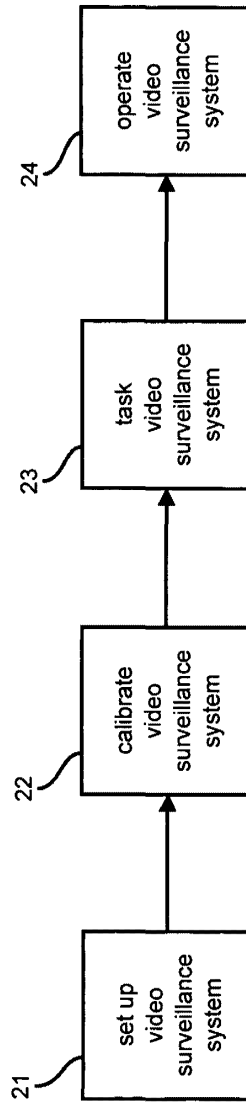


FIG. 2

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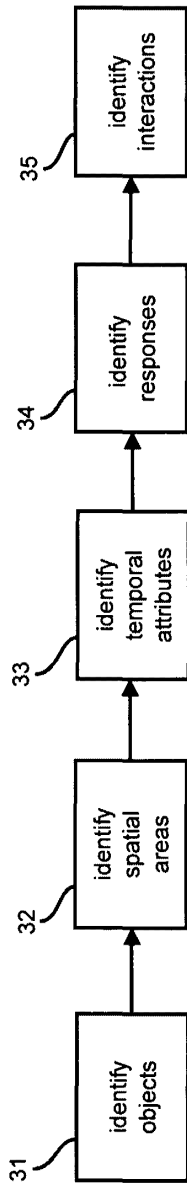


FIG. 3

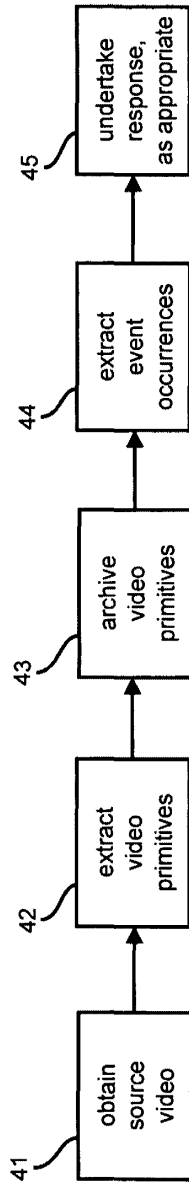


FIG. 4

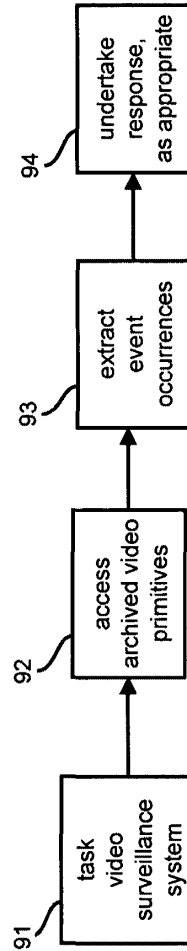


FIG. 9

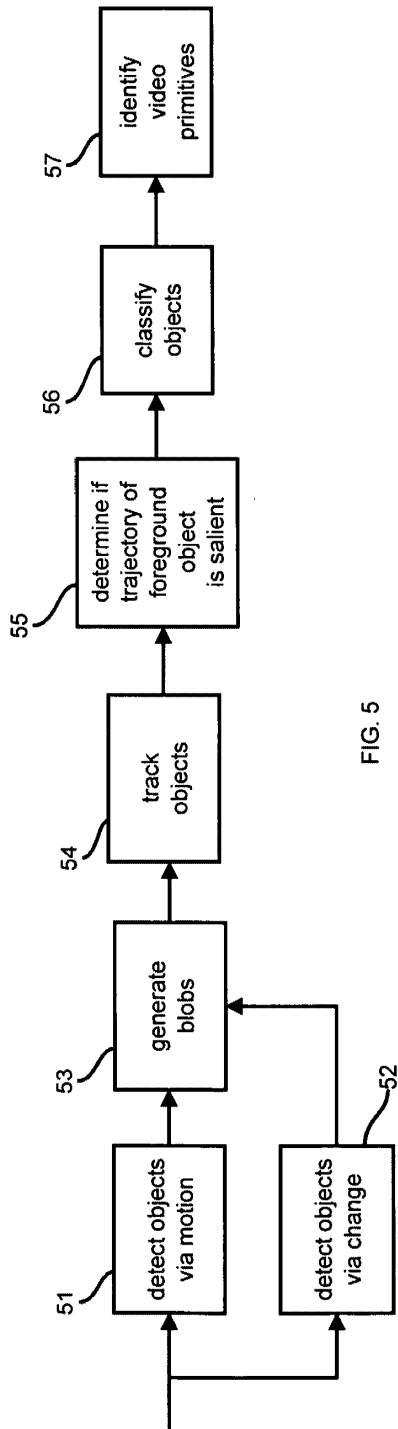


FIG. 5

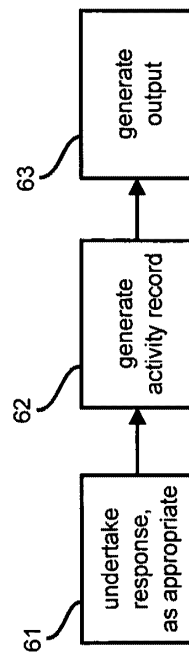


FIG. 6

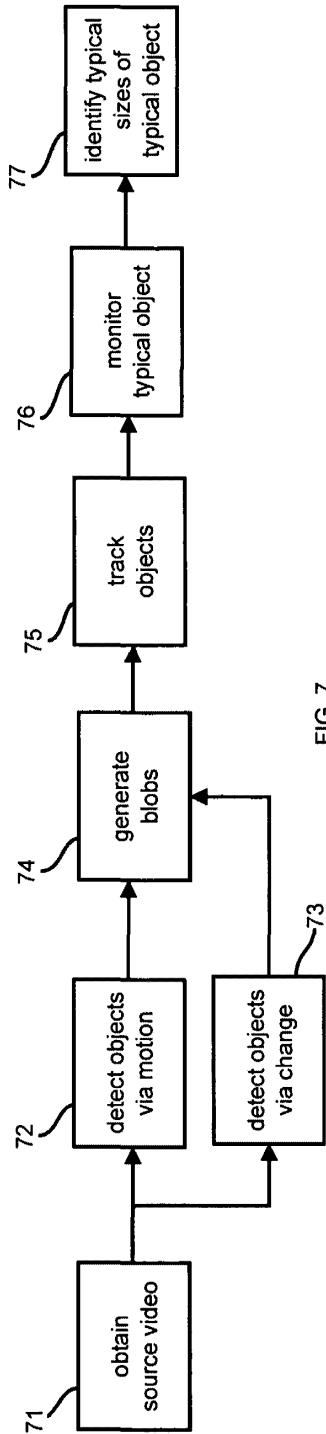


FIG. 7

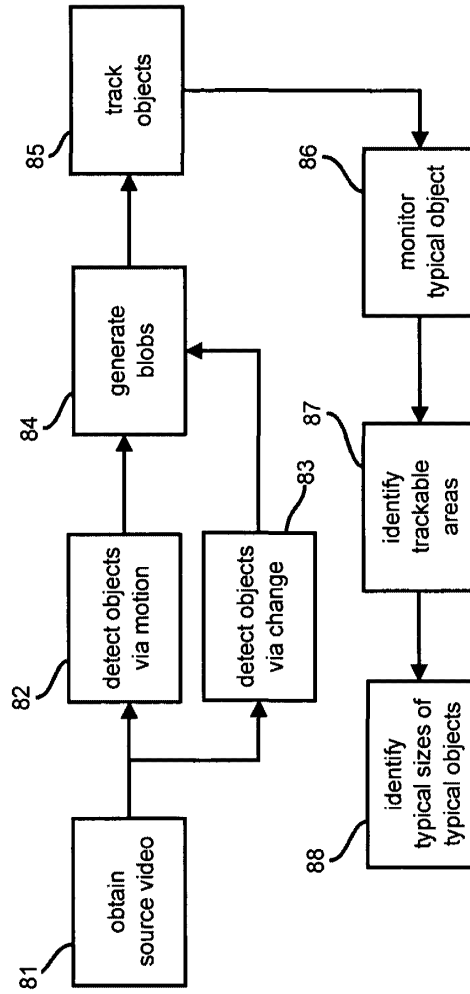


FIG. 8

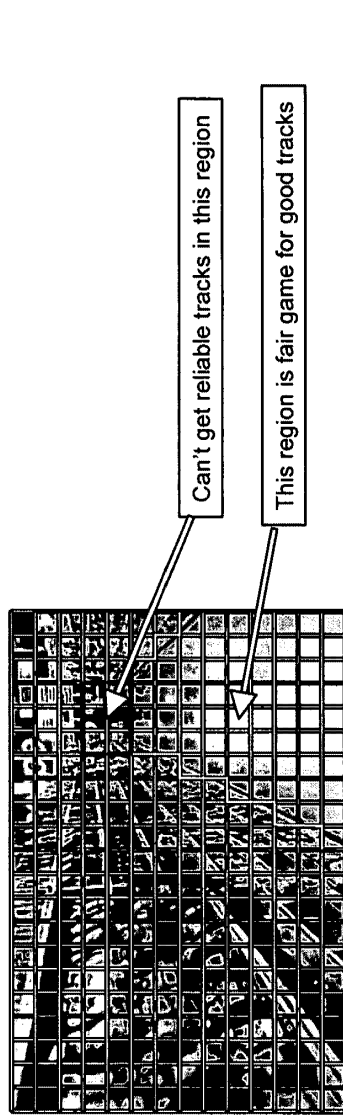


FIG. 10

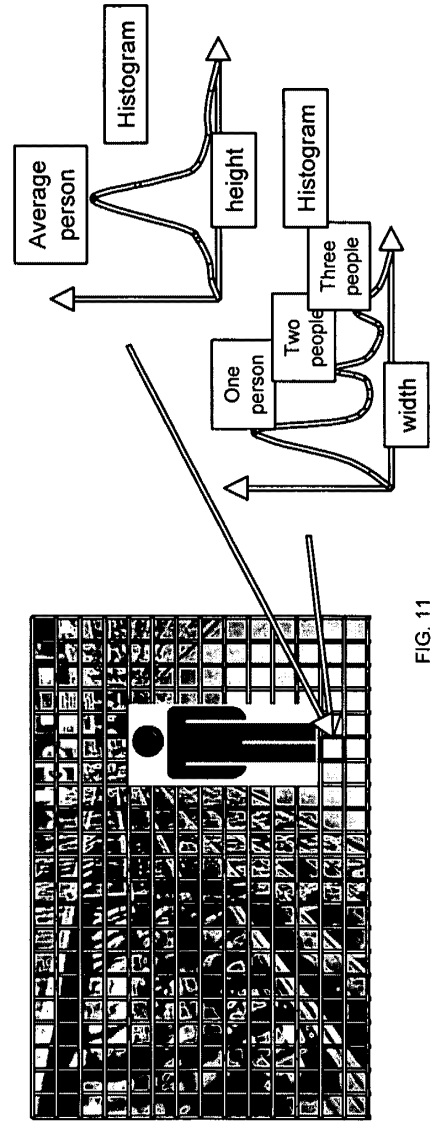


FIG. 11



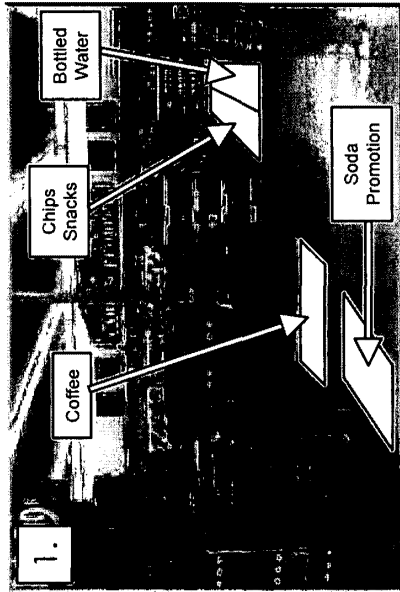


FIG. 12

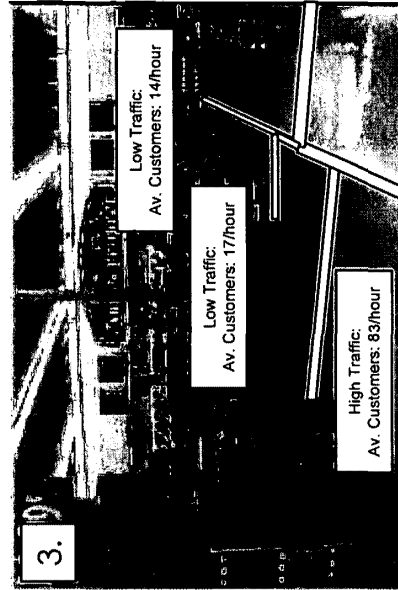


FIG. 14

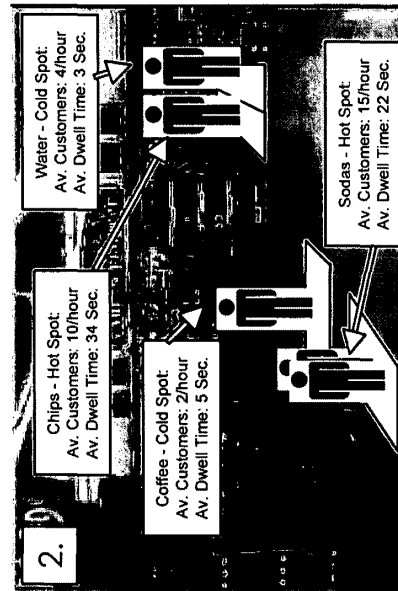


FIG. 13

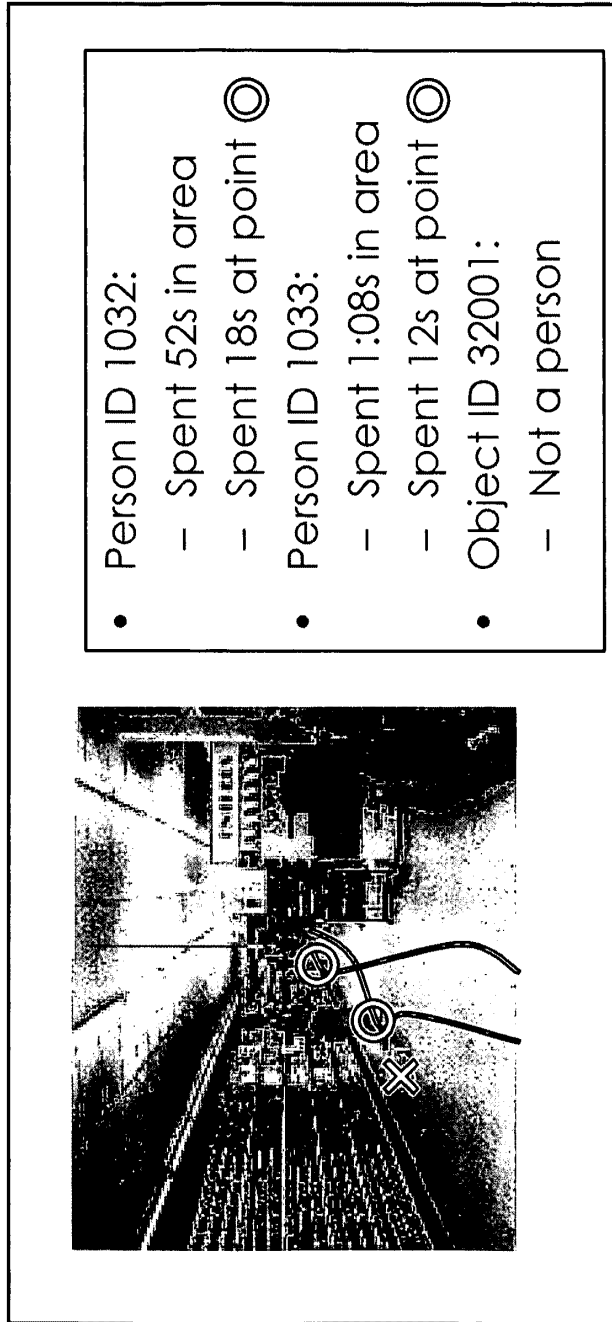


FIG. 15

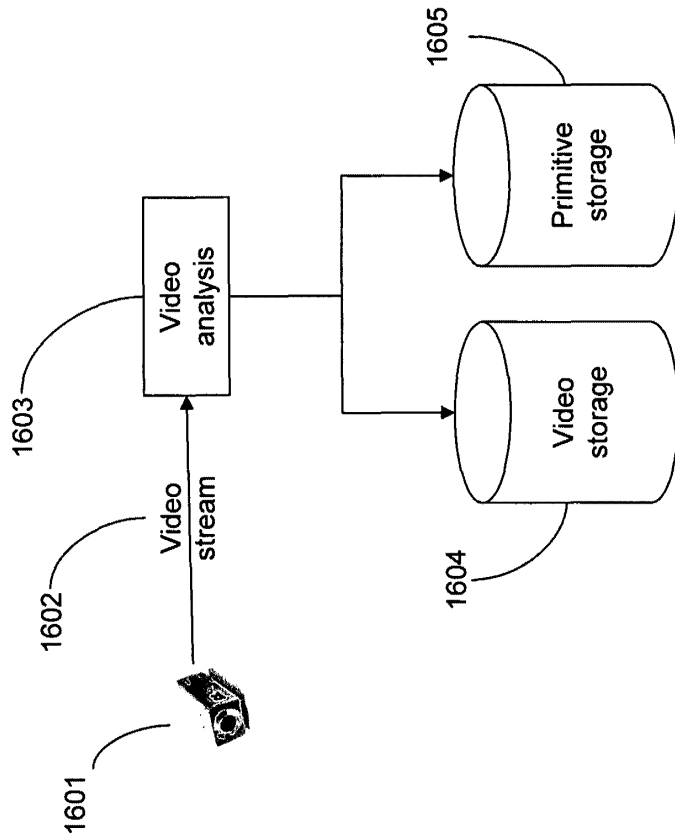


Figure 16a

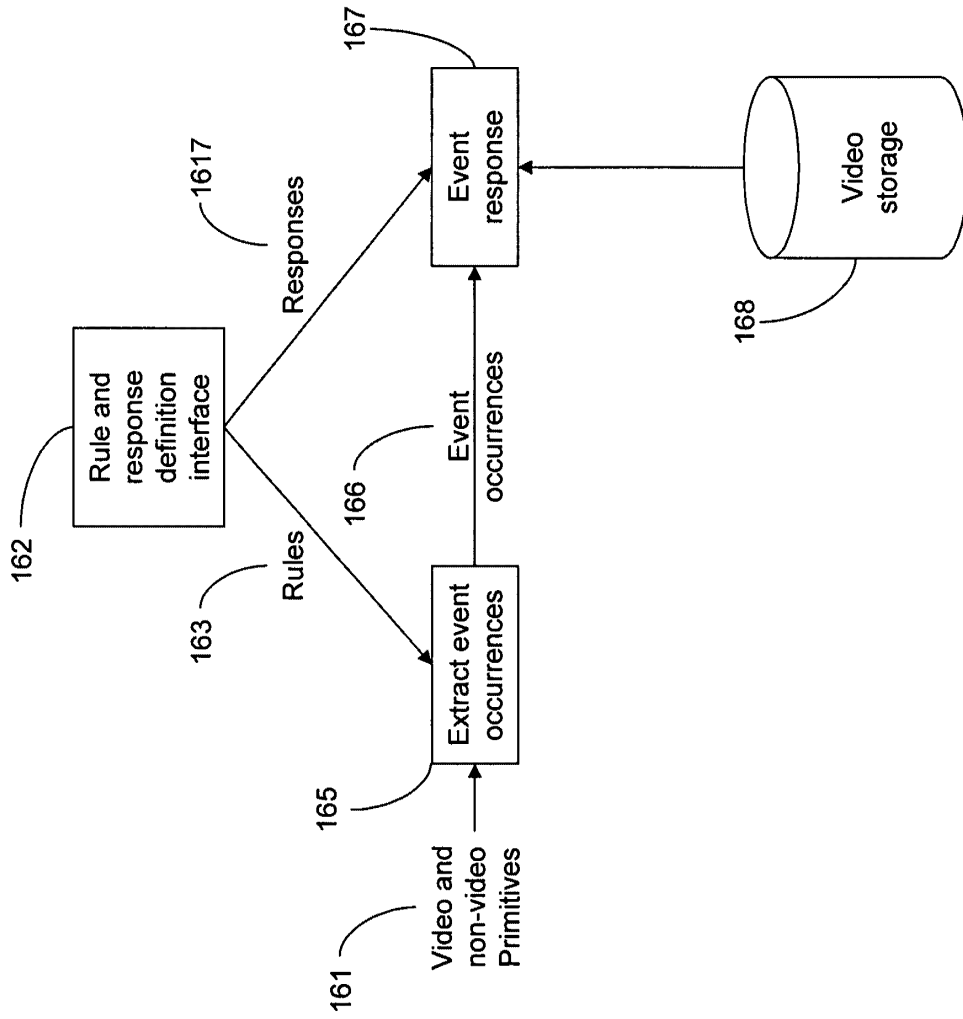


Figure 16b

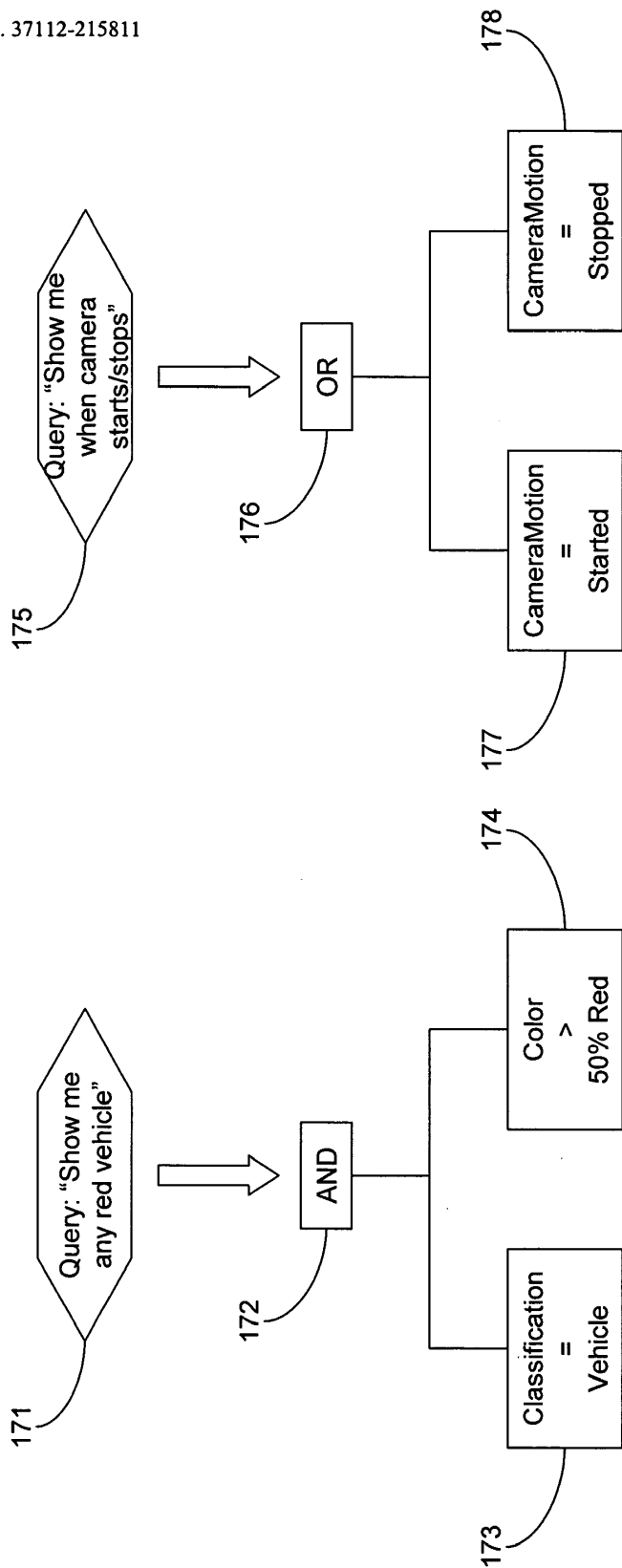


Figure 17a

Figure 17b



Figure 18c

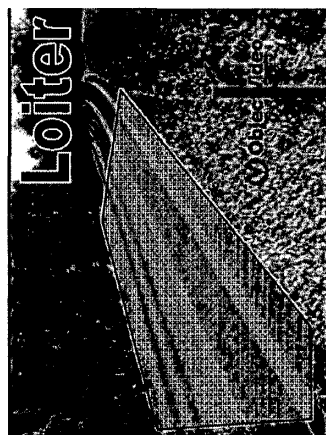


Figure 18b



Figure 18a

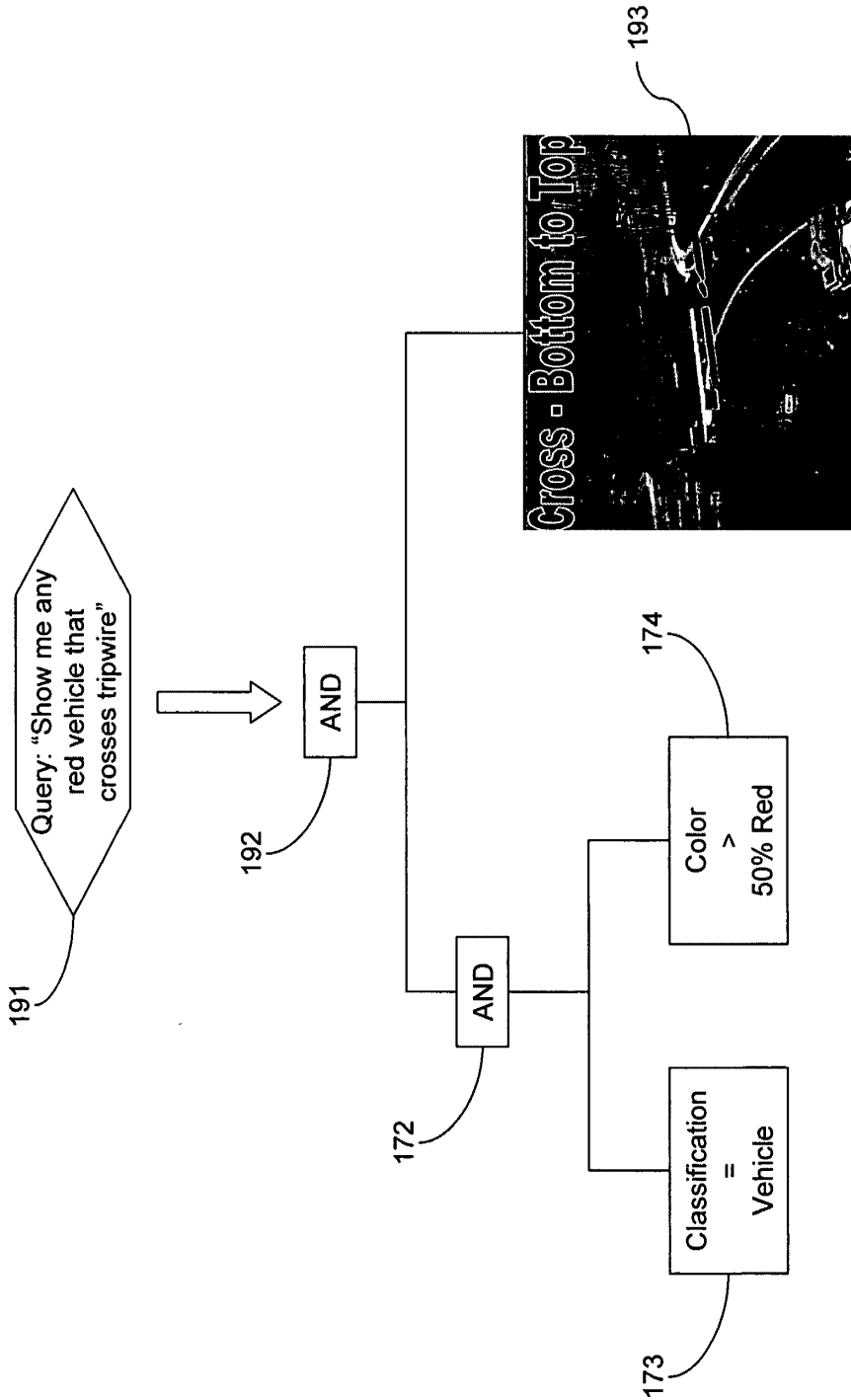


Figure 19

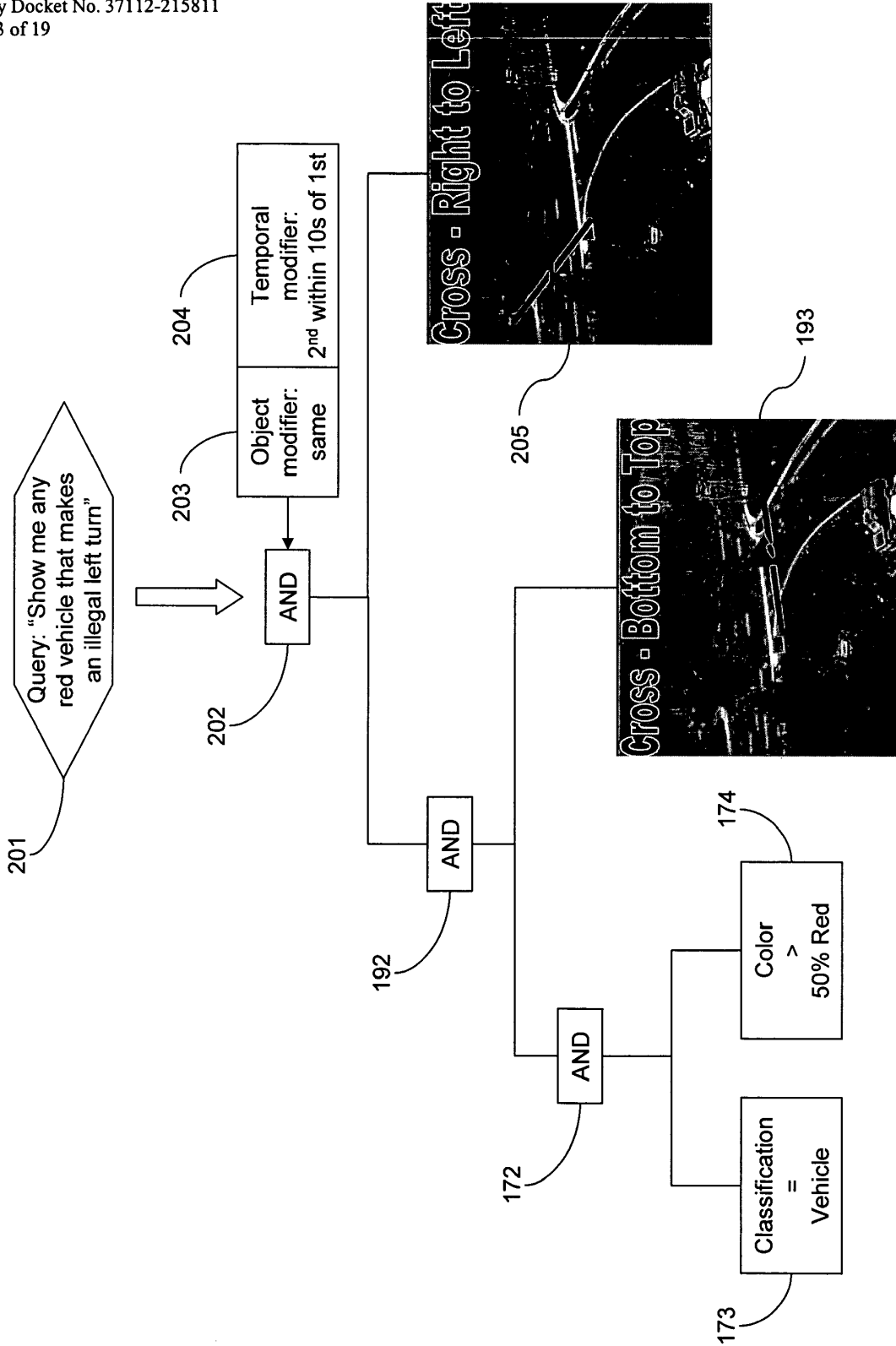


Figure 20



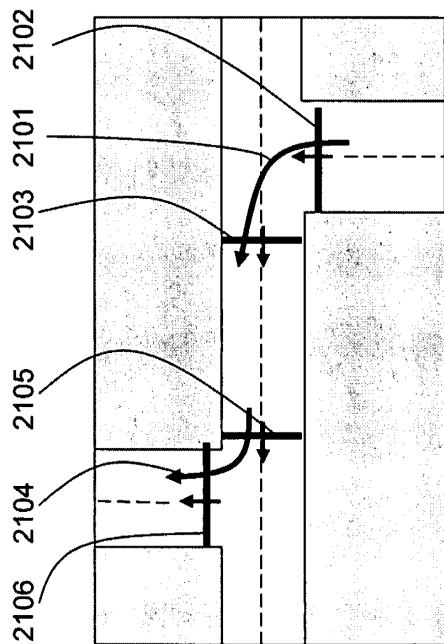


Figure 21a

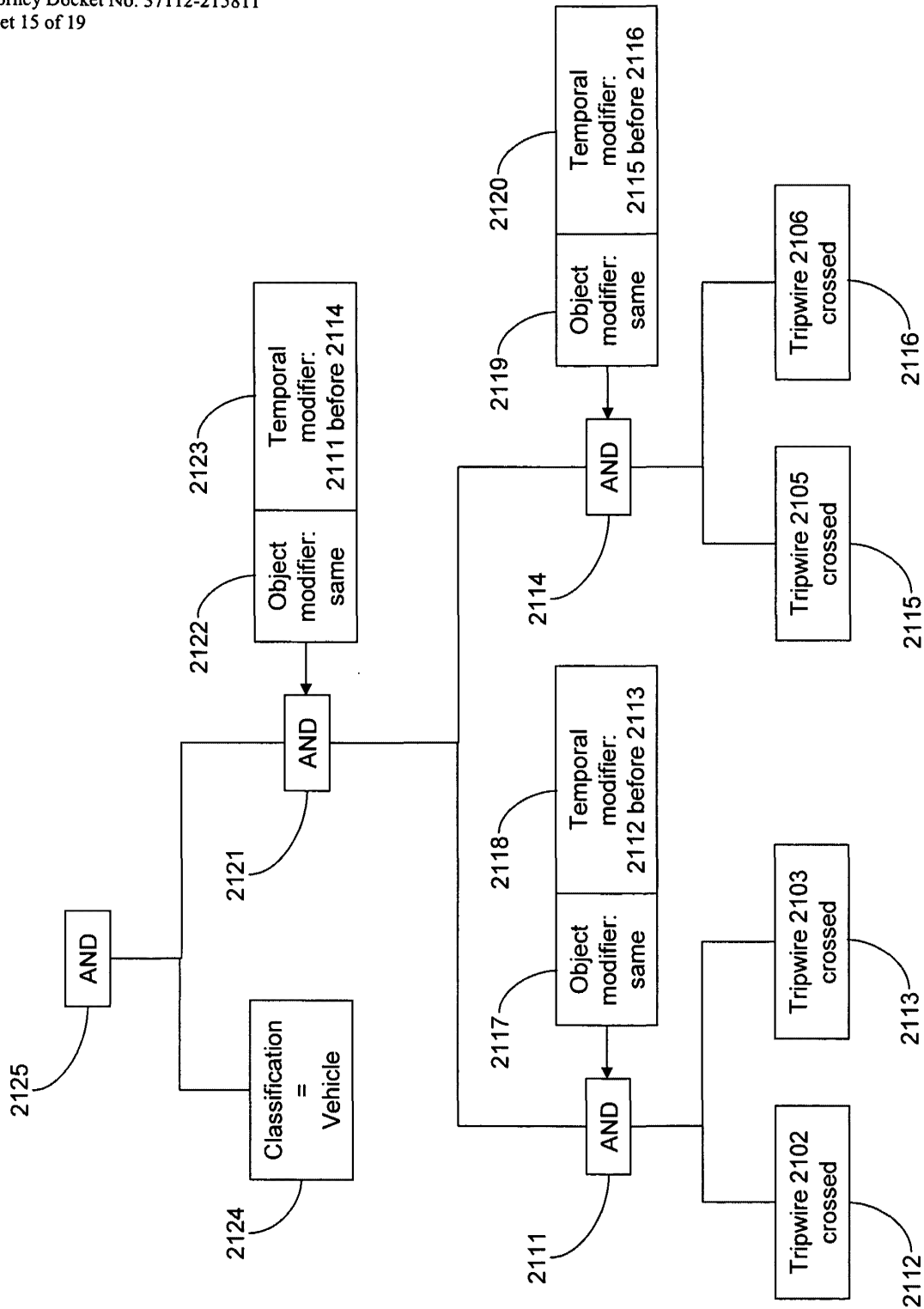


Figure 21b

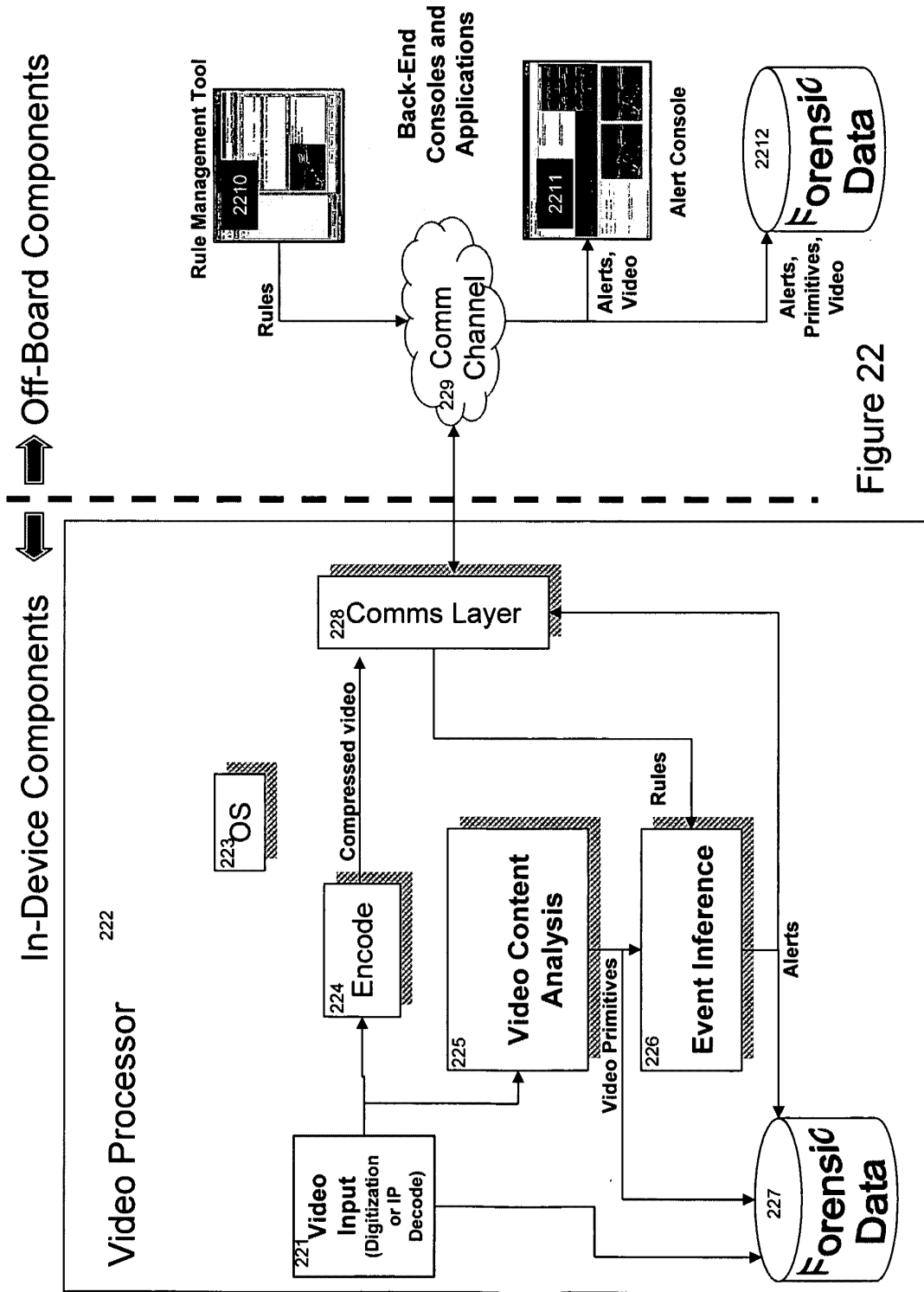
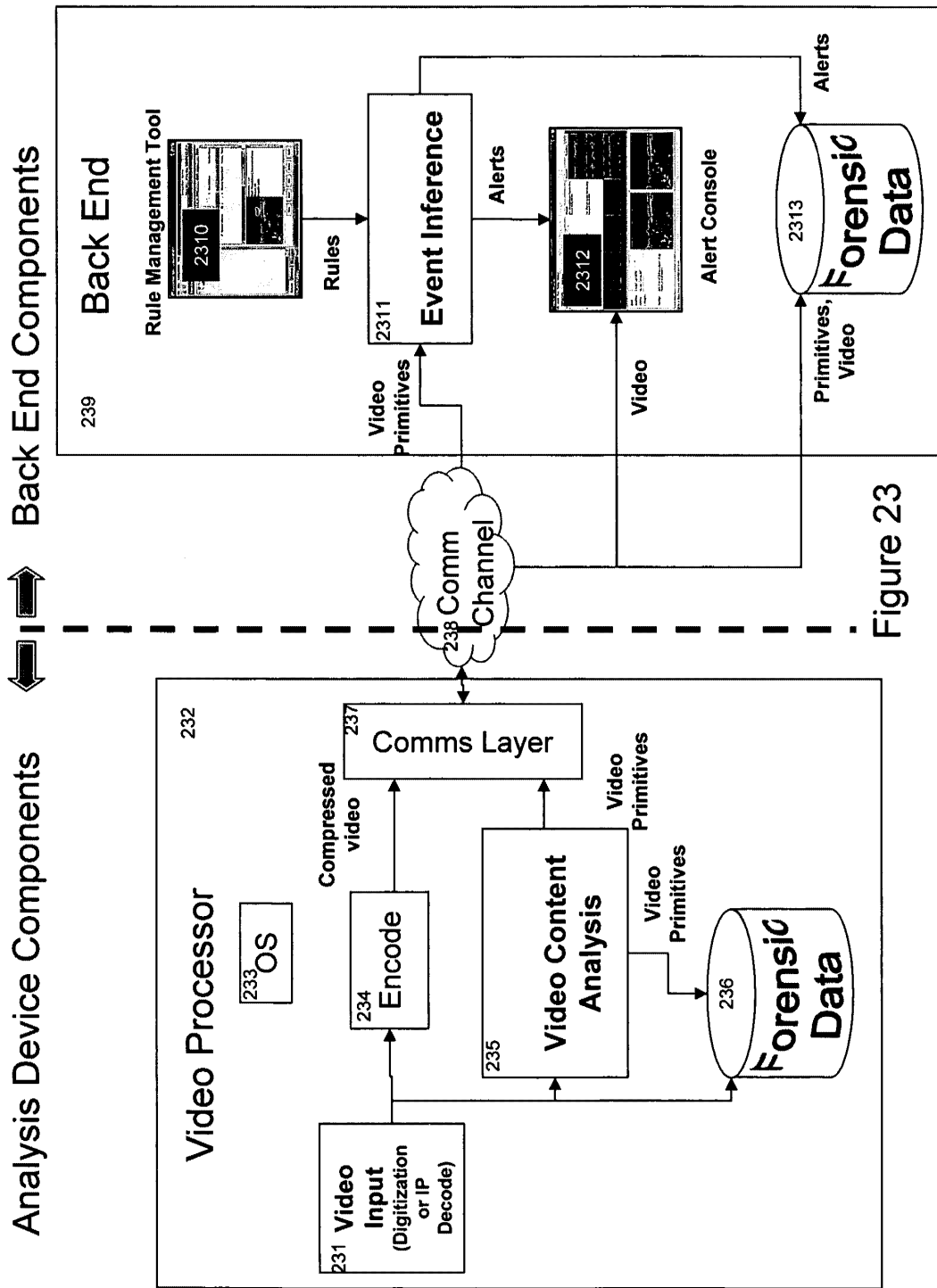


Figure 22



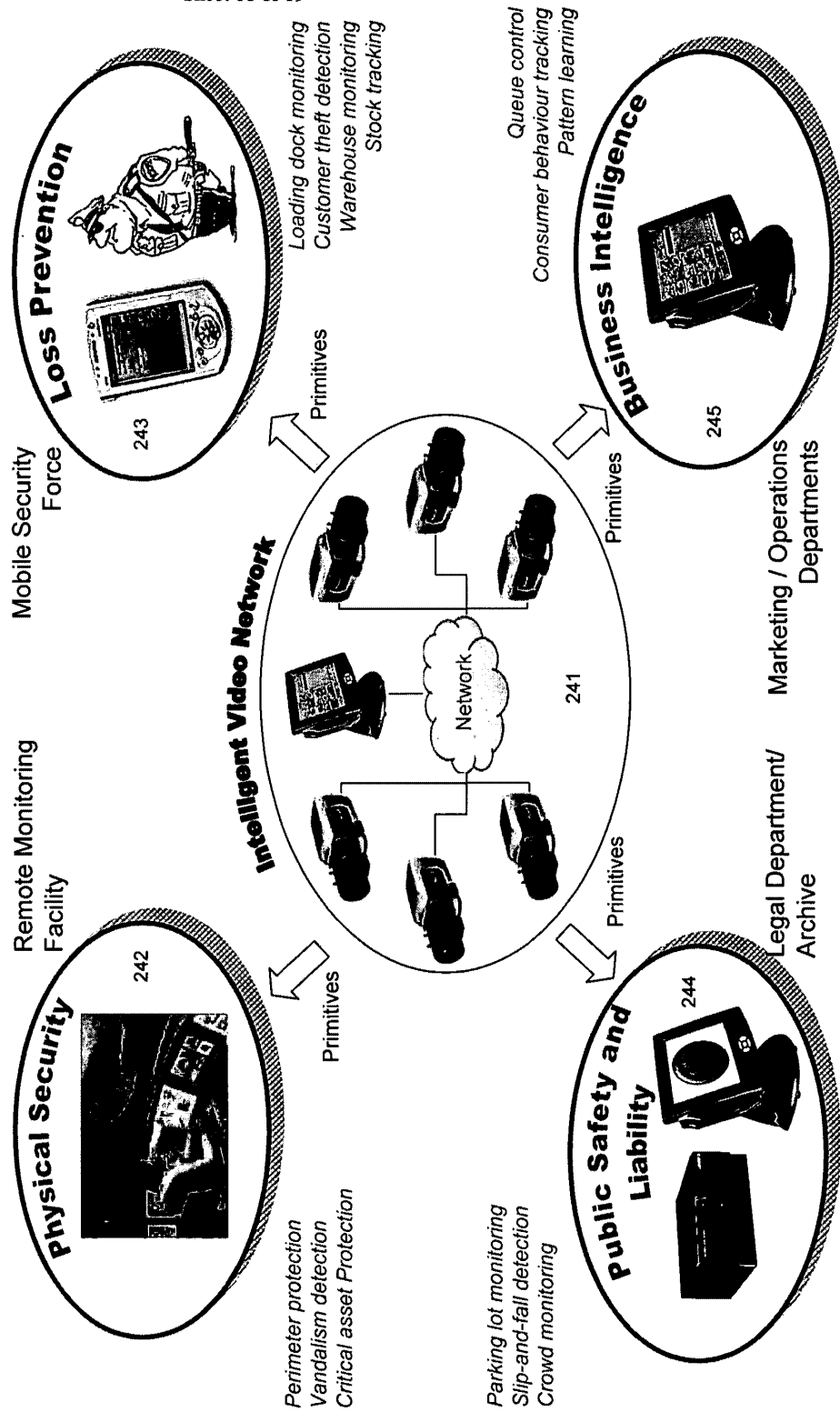


Figure 24

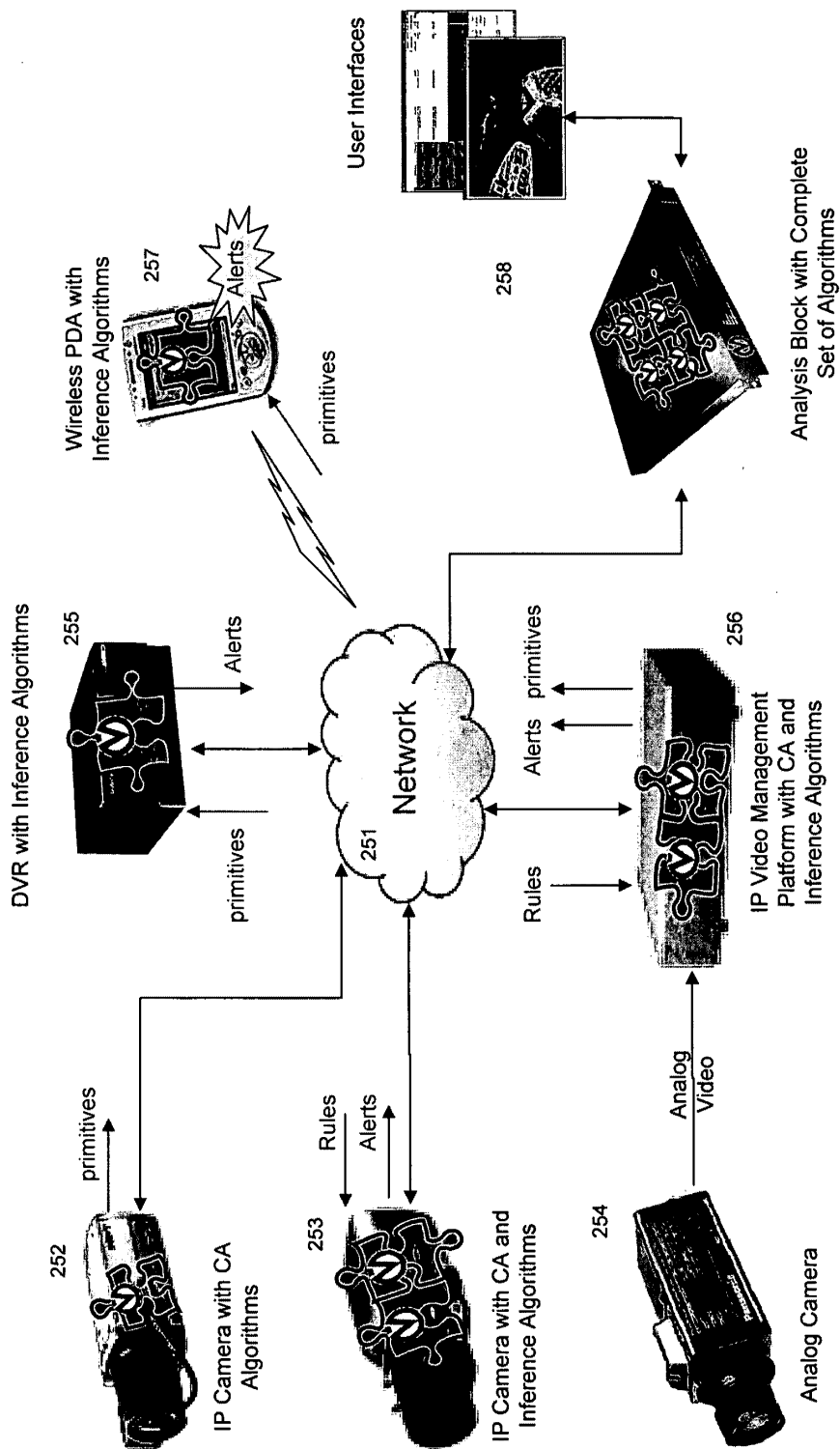


Figure 25

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|   |                 |                       |                     |
|---|-----------------|-----------------------|---------------------|
| <b>Declaration for Patent Application<br/>English Language Declaration</b>  |                 | Attorney Docket No.   | 37112-215811        |
|   |                 | First Named Inventor  | Peter L. Venetianer |
| <b>COMPLETE IF KNOWN:</b>   |                 |                       |                     |
| <input checked="" type="checkbox"/> Submitted with initial filing <input type="checkbox"/> Submitted after initial filing (surcharge required 37 CFR 1.16(e)) | Application No. | Not Yet Assigned      |                     |
|   | Filing Date     | Concurrently Herewith |                     |
|   | Art Unit        | N/A                   |                     |
|   | Examiner        | Not Yet Assigned      |                     |

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**VIDEO SURVEILLANCE SYSTEM**

the specification of which

is attached hereto  
OR  
 was filed on \_\_\_\_\_  
as United States Application No. or PCT International Application No. \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign applications(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's right certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

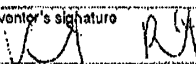
| Prior Foreign Application(s) |                 |                     | Priority Not Claimed     | Certified Copy Attached  |                          |
|------------------------------|-----------------|---------------------|--------------------------|--------------------------|--------------------------|
|                              |                 |                     |                          | YES                      | NO                       |
| _____ (Number)               | _____ (Country) | _____ (Filing Date) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| _____ (Number)               | _____ (Country) | _____ (Filing Date) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| _____ (Number)               | _____ (Country) | _____ (Filing Date) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |


Additional prior foreign applications are listed on a supplemental data sheet attached hereto.

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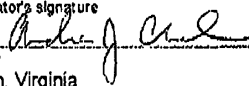
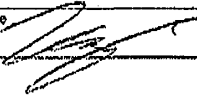
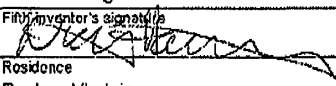


I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|   |                |
|---|----------------|
| Full name of sole or first inventor<br>Peter L. Venetianer  |                |
| Sole or first inventor's signature<br> | Date<br>4/4/15 |
| Residence<br>McLean, Virginia   |                |
| Citizenship<br>Hungary  |                |
| Mailing Address<br>6623 Ivy Hill Dr. McLean<br>McLean, Virginia 22101   |                |

|  |                  |
|--|------------------|
| Full name of second inventor<br>Alan J. Lipton   |                  |
| Second inventor's signature<br> | Date<br>4/5/2005 |
| Residence<br>Herndon, Virginia   |                  |
| Citizenship<br>Australia   |                  |
| Mailing Address<br>12633 Terrymill Drive<br>Herndon, Virginia 20170  |                  |


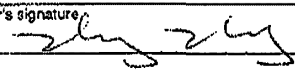
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|  |                       |
|--|-----------------------|
| Full name of third inventor<br>Andrew J. Chosak  |                       |
| Third inventor's signature<br>  | Date<br>April 5 2005  |
| Residence<br>Arlington, Virginia   |                       |
| Citizenship US   |                       |
| Mailing Address<br><br>1423 N Nash St. Apt. 7<br>Arlington, Virginia 22209                                       |                       |
| Full name of fourth inventor, if any<br>Matthew F. Frazier   |                       |
| Fourth inventor's signature<br> | Date<br>5-Apr-05      |
| Residence<br>Arlington, Virginia   |                       |
| Citizenship US   |                       |
| Mailing Address<br><br>2500 Clarendon Blvd., #712<br>Arlington, Virginia 22201                                   |                       |
| Full name of fifth inventor, if any<br>Niels Haering   |                       |
| Fifth inventor's signature<br> | Date<br>April 4, 2005 |
| Residence<br>Reston, Virginia  |                       |
| Citizenship Germany  |                       |
| Mailing Address<br><br>11182 Beaver Trail Ct.<br>Reston, Virginia 20191  |                       |
| Full name of sixth inventor, if any<br>Gary W. Myers   |                       |
| Sixth inventor's signature   | Date                  |
| Residence<br>Ashburn, Virginia   |                       |
| Citizenship US   |                       |
| Mailing Address<br><br>21407 Woodspice Court<br>Ashburn, Virginia 20148  |                       |

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|  |                |
|--|----------------|
| Full name of third inventor<br>Andrew J. Chosak                            |                |
| Third inventor's signature   | Date           |
| Residence<br>Arlington, Virginia   |                |
| Citizenship US   |                |
| Mailing Address<br>1423 N Nash St. Apt. 7<br>Arlington, Virginia 22209     |                |
| Full name of fourth inventor, if any<br>Matthew F. Frazier                 |                |
| Fourth inventor's signature  | Date           |
| Residence<br>Arlington, Virginia   |                |
| Citizenship US   |                |
| Mailing Address<br>2500 Clarendon Blvd., #712<br>Arlington, Virginia 22201 |                |
| Full name of fifth inventor, if any<br>Niels Haering                       |                |
| Fifth inventor's signature   | Date           |
| Residence<br>Reston, Virginia  |                |
| Citizenship Germany  |                |
| Mailing Address<br>11182 Beaver Trail Ct.<br>Reston, Virginia 20191        |                |
| Full name of sixth inventor, if any<br>Gary W. Myers                       |                |
| Sixth inventor's signature<br><i>Gary W. Myers</i>                         | Date<br>4/4/05 |
| Residence<br>Ashburn, Virginia   |                |
| Citizenship US   |                |
| Mailing Address<br>21407 Woodspice Court<br>Ashburn, Virginia 20148        |                |

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|   |                   |
|---|-------------------|
| Full name of seventh inventor, if any<br>WeiHong Yin  |                   |
| Seventh inventor's signature<br> | Date<br>4/5/2005  |
| Residence<br>Herndon, Virginia  |                   |
| Citizenship<br>People's Republic of China   |                   |
| Mailing Address<br><br>1122 Clinch Road<br>Herndon, Virginia 20170  |                   |
| Full name of eighth inventor, if any<br>Zhong Zhang   |                   |
| Eighth inventor's signature<br>  | Date<br>4-15/2005 |
| Residence<br>Herndon, Virginia  |                   |
| Citizenship<br>People's Republic of China   |                   |
| Mailing Address<br><br>1122 Clinch Rd.<br>Herndon, Virginia 20170   |                   |

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Docket No.: 37112-215811  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Venetianer et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: VIDEO SURVEILLANCE SYSTEM

Examiner: Not Yet Assigned

**POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

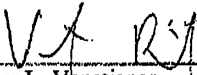
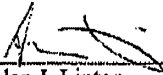
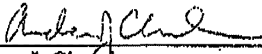
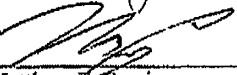



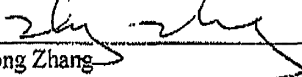
As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the U.S. Patent and Trademark Office connected herewith:

All practitioners at Customer Number 26694.

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Address all communications to:

Jeffrey W. Gluck, Ph.D.  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000

|        |                      |  |
|--------|----------------------|--|
| Dated: | <u>4/5/05</u>        | <br>Peter L. Venetianer |
| Dated: | <u>4/5/05</u>        | <br>Alan J. Lipton      |
| Dated: | <u>April 5 2005</u>  | <br>Andrew J. Chosak   |
| Dated: | <u>Apr 5 05</u>      | <br>Matthew F. Frazier  |
| Dated: | <u>April 5, 2005</u> | <br>Niels Haering      |
| Dated: | _____                | _____  |
| Dated: | <u>April 5, 2005</u> | <br>Gary W. Myers    |
| Dated: | <u>April 5, 2005</u> | <br>Weihong Yin      |
| Dated: | <u>April 5, 2005</u> | <br>Zhong Zhang      |

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Application No.: Not Yet Assigned

Docket No.: 37112-215811

Address all communications to:

Jeffrey W. Gluck, Ph.D.  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000

|                     |                     |
|---------------------|---------------------|
| Dated: _____        | _____               |
|                     | Peter L. Venetianer |
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|                     | Alan J. Lipton      |
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|                     | Andrew J. Chosak    |
| Dated: _____        | _____               |
|                     | Matthew F. Frazier  |
| Dated: _____        | _____               |
|                     | Niels Haering       |
| Dated: 4/5/05 _____ | _____               |
|                     | Gary W. Myers       |
| Dated: _____        | _____               |
|                     | Weihong Yin         |
| Dated: _____        | _____               |
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PATENT APPLICATION SERIAL NO. \_\_\_\_\_

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04/06/2005 FFANAEIA 00000074 220261 11098385

|            |           |
|------------|-----------|
| 01 FC:2011 | 150.00 DA |
| 02 FC:2111 | 250.00 DA |
| 03 FC:2311 | 100.00 DA |
| 04 FC:2202 | 150.00 DA |

PTO-1556  
(5/87)

\*U.S. Government Printing Office: 2002 — 489-267/89033

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**PATENT APPLICATION FEE DETERMINATION RECORD**  
Effective December 8, 2004

11098385

**CLAIMS AS FILED - PART I**

|                                  | (Column 1)    | (Column 2)               |
|----------------------------------|---------------|--------------------------|
| TOTAL CLAIMS                     | 26            |                          |
| FOR                              | NUMBER FILED  | NUMBER EXTRA             |
| TOTAL CHARGEABLE CLAIMS          | 26 minus 20 = | 6                        |
| INDEPENDENT CLAIMS               | 7 minus 3 =   | 4                        |
| MULTIPLE DEPENDENT CLAIM PRESENT |               | <input type="checkbox"/> |

**SMALL ENTITY TYPE**  **OR** **OTHER THAN SMALL ENTITY**

| RATE      | FEE    |    | RATE      | FEE    |
|-----------|--------|----|-----------|--------|
| BASIC FEE | 150.00 | OR | BASIC FEE | 300.00 |
| X\$ 25=   | 1.50   | OR | X\$50=    |        |
| X100=     |        | OR | X200=     |        |
| +180=     |        | OR | +360=     |        |
| TOTAL     | 3.00   | OR | TOTAL     |        |

\* If the difference in column 1 is less than zero, enter "0" in column 2

**CLAIMS AS AMENDED - PART II**

|  | (Column 1)                       | (Column 2)                         | (Column 3)               |
|--|----------------------------------|------------------------------------|--------------------------|
| <b>AMENDMENT A</b>                             | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA            |
|  | Total                            | * Minus **                         | =                        |
|  | Independent                      | * Minus ***                        | =                        |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM |                                  |                                    | <input type="checkbox"/> |

**SMALL ENTITY**  **OR** **OTHER THAN SMALL ENTITY**

| RATE             | ADDITIONAL FEE |    | RATE             | ADDITIONAL FEE |
|------------------|----------------|----|------------------|----------------|
| X\$ 25=          |                | OR | X\$50=           |                |
| X100=            |                | OR | X200=            |                |
| +180=            |                | OR | +360=            |                |
| TOTAL ADDIT. FEE |                | OR | TOTAL ADDIT. FEE |                |

1 - 18

|  | (Column 1)                       | (Column 2)                         | (Column 3)               |
|--|----------------------------------|------------------------------------|--------------------------|
| <b>AMENDMENT B</b>                             | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA            |
|  | Total                            | * Minus **                         | =                        |
|  | Independent                      | * Minus ***                        | =                        |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM |                                  |                                    | <input type="checkbox"/> |

| RATE             | ADDITIONAL FEE |    | RATE             | ADDITIONAL FEE |
|------------------|----------------|----|------------------|----------------|
| X\$ 25=          |                | OR | X\$50=           |                |
| X100=            |                | OR | X200=            |                |
| +180=            |                | OR | +360=            |                |
| TOTAL ADDIT. FEE |                | OR | TOTAL ADDIT. FEE |                |

|  | (Column 1)                       | (Column 2)                         | (Column 3)               |
|--|----------------------------------|------------------------------------|--------------------------|
| <b>AMENDMENT C</b>                             | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA            |
|  | Total                            | * Minus **                         | =                        |
|  | Independent                      | * Minus ***                        | =                        |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM |                                  |                                    | <input type="checkbox"/> |

| RATE             | ADDITIONAL FEE |    | RATE             | ADDITIONAL FEE |
|------------------|----------------|----|------------------|----------------|
| X\$ 25=          |                | OR | X\$50=           |                |
| X100=            |                | OR | X200=            |                |
| +180=            |                | OR | +360=            |                |
| TOTAL ADDIT. FEE |                | OR | TOTAL ADDIT. FEE |                |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

**Application Data Sheet**

**Application Information**

|                                  |   |
|----------------------------------|---|
| Application Type::               | Regular (CIP)   |
| Subject Matter::                 | Utility   |
| Suggested Group Art Unit::       | N/A   |
| CD-ROM or CD-R?::                | None  |
| Sequence submission?::           | None  |
| Computer Readable Form (CRF)?::  | No  |
| Title::                          | VIDEO SURVEILLANCE SYSTEM<br>EMPLOYING VIDEO PRIMITIVES |
| Attorney Docket Number::         | 37112-215811  |
| Request for Early Publication?:: | No  |
| Request for Non-Publication?::   | No  |
| Suggested Drawing Figure::       | 22  |
| Total Drawing Sheets::           | 19  |
| Small Entity?::                  | Yes   |
| Petition included?::             | No  |
| Secrecy Order in Parent Appl.?:: | No  |

**Applicant Information**

|                                  |                   |
|----------------------------------|-------------------|
| Applicant Authority Type::       | Inventor          |
| Primary Citizenship Country::    | Hungary           |
| Status::                         | Full Capacity     |
| Given Name::                     | Peter             |
| Middle Name::                    | L.                |
| Family Name::                    | Venetianer        |
| City of Residence::              | McLean            |
| State or Province of Residence:: | VA                |
| Country of Residence::           | US                |
| Street of mailing address::      | 6623 Ivy Hill Dr. |
| City of mailing address::        | McLean            |

State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 22101

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Australia  
Status:: Full Capacity  
Given Name:: Alan  
Middle Name:: J.  
Family Name:: Lipton  
City of Residence:: Herndon  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 12633 Terrymill Dr.  
City of mailing address:: Herndon  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 20170

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Andrew  
Middle Name:: J.  
Family Name:: Chosak  
City of Residence:: Arlington  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 1423 N. Nash St., Apt. 7  
City of mailing address:: Arlington  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 22209

Applicant Authority Type:: Inventor

Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Matthew  
Middle Name:: F.  
Family Name:: Frazier  
City of Residence:: Arlington  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 2500 Clarendon Blvd., #712  
City of mailing address:: Arlington  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 22201

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Germany  
Status:: Full Capacity  
Given Name:: Niels  
Family Name:: Haering  
City of Residence:: Reston  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 11182 Beaver Trail Ct.  
City of mailing address:: Reston  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 20191

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Gary  
Middle Name:: W.  
Family Name:: Myers

City of Residence:: Ashburn  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 21407 Woodspice Ct.  
City of mailing address:: Ashburn  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 20148

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: People's Republic of China  
Status:: Full Capacity  
Given Name:: Weihong  
Family Name:: Yin  
City of Residence:: Herndon  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 1122 Clinch Rd.  
City of mailing address:: Herndon  
State or Province of mailing address:: VA  
Postal or Zip Code of mailing address:: 20170

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: People's Republic of China  
Status:: Full Capacity  
Given Name:: Zhong  
Family Name:: Zhang  
City of Residence:: Herndon  
State or Province of Residence:: VA  
Country of Residence:: US  
Street of mailing address:: 1122 Clinch Rd.  
City of mailing address:: Herndon  
State or Province of mailing address:: VA

Postal or Zip Code of mailing address:: 20170

**Correspondence Information**

Correspondence Customer Number:: 26694

**Representative Information**

Representative Customer Number:: 26694

**Domestic Priority Information**

| Application::    | Continuity Type::    | Parent Application:: | Parent Filing Date:: |
|------------------|----------------------|----------------------|----------------------|
| This Application | Continuation-in-part | 11/057,154           | 02/15/05             |
| 11/057,154       | Continuation-in-part | 09/987,707           | 11/15/01             |
| 09/987,707       | Continuation-in-part | 09/694,712           | 10/24/00             |

**Assignee Information**

Assignee name:: OBJECTVIDEO, INC.  
11900 SUNRISE VALLEY DR., STE. 290  
RESTON, VA 20191

DC2-637749