

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING PATENT OR TRADEMARK
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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 Texas on the following

Trademarks or Patents. (the patent action involves 35 U.S.C. § 292.);

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
PLAINTIFF		DEFENDANT
Solocron Media, LLC		Verizon Communications Inc., Cellco Partnership d.b.a. Verizon Wireless, AT&T Inc., AT&T Mobility LLC, Sprint Corp., Sprint Communications Company L.P., Sprint Solutions Inc., & T-Mobile USA, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1. US6496692	12/17/2002	Solocron Media, LLC
2. US7257395	08/14/2007	Solocron Media, LLC
3. US7295864	11/13/2007	Solocron Media, LLC
4. US7319866	01/15/2008	Solocron Media, LLC
5. US7742759	06/22/2010	Solocron Media, LLC
6. US8249572	08/21/2012	Solocron Media, LLC
7. US8594651	11/26/2013	Solocron Media, LLC

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

DATE INCLUDED	INCLUDED BY
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK
	HOLDER OF PATENT OR TRADEMARK

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director

Copy 2—Upon filing document adding patent(s), mail this copy to Director

Copy 3—Upon termination of action, 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
10/603,271	06/24/2003	Michael E. Shanahan	PREMM.000GEN

CONFIRMATION NO. 4493

POA ACCEPTANCE LETTER



20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Date Mailed: 05/20/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/11/2011.

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.

/sleutchit/

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

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
10/603,271	06/24/2003	Michael E. Shanahan	MES002CONIII

CONFIRMATION NO. 4493

POWER OF ATTORNEY NOTICE

39550
KALIKO & ASSOCIATES, L.L.C.
400-B Lake Street
RAMSEY, NJ 07446



Date Mailed: 05/20/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/11/2011.

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

/slcutchit/

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

Please Direct All Correspondence to Customer Number 20,995

CHANGE OF CORRESPONDENCE ADDRESS

Applicant : Shanahan, Michael E.
App. No : 10/603,271
Filed : June 24, 2003
For : METHODS AND APPARATUSES FOR PROGRAMMING USER-
DEFINED INFORMATION INTO ELECTRONIC DEVICES
Examiner : Tieu, Binh Kien
Art Unit : 2614
Conf. No. : 4493

Mail Stop Post Issue

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


Dear Sir:

Please change the Correspondence Address for the above-identified patent application to the address associated with Customer Number: 20,995

Respectfully submitted,

KNOBBE MARTENS OLSON & BEAR LLP

Dated: May 11, 2011



Karen J. Lenker
Registration No. 54,618
Agent of Record
Customer No. 20,995
(949) 760-0404

**STATEMENT UNDER 37 CFR § 3.73(b)
ESTABLISHMENT OF ASSIGNEE**

Applicant : Michael E. Shanahan
App. No. : 10/603,271
Filed : June 24, 2003
For : METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED
INFORMATION INTO ELECTRONIC DEVICES
Examiner : Tieu, Binh Kien
Group Art Unit : 2614
Conf. No. : 4493

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

Dear Sir:

This document is being filed with a copy of a Power of Attorney signed by the Assignee. This Statement sets forth the chain of title of the above-identified application.

Premorphic Mobile LP, a Corporation, is the Assignee of the entire right, title, and interest of the above-referenced application by virtue of:

A chain of title, in reverse order, from the inventor(s) to the current Assignee as shown by the following recorded assignments:

1. Assignment from Premorphic Research, Inc. to Premorphic Mobile LP recorded in the United States Patent and Trademark Office on March 25, 2011, at Reel 026022, and Frame 0633.
2. Assignment from Twenty Year Innovations, Inc. to Premorphic Research, Inc. recorded in the United States Patent and Trademark Office on March 18, 2011, at Reel 025982, and Frame 0819.
3. Assignment from Michael E. Shanahan to Twenty Year Innovations, Inc. recorded in the United States Patent and Trademark Office on March 1, 2004, at Reel 015027, and Frame 0049.

The undersigned is an agent of Customer Number 20,995 and is authorized to act on behalf of the Assignee. Please recognize or change the correspondence address for the above-identified application to **Customer No. 20,995**.

Appl. No. : 10/603,271
Filed : June 24, 2003

Docket No. PREMM.001A2C2
Customer No. 20,995

Respectfully submitted,
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 11, 2011

By: Karen J. Lenker
Karen J. Lenker
Registration No. 54,618
Agent of Record
Customer No. 20,995
(949) 760-0404

11220897

051111

**REVOCATION & GENERAL POWER OF ATTORNEY
and
CHANGE IN CORRESPONDENCE ADDRESS**

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

Dear Sir:

The undersigned is an empowered representative of the Assignee and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, **Customer No. 20,995**, as attorneys and agents to represent the Assignee before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned to the Assignee according to the USPTO assignment records or assignment documents supplied with an accompanying Statement Under 37 CFR § 3.73(b). This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 CFR § 3.71.

Submission of this paper in connection with any matter of the below named assignee, together with a statement under 37 CFR 3.73(b), shall serve to revoke any previous powers of attorney in that matter.

Attached is a Statement Under 37 CFR § 3.73(b), signed by a registrant of Knobbe, Martens, Olson & Bear, LLP, setting forth a full chain of title for the subject application owned by the Assignee named below.

Please recognize or change the correspondence address for the application identified in the attached Statement to **Customer No. 20,995**.

By:



Date:

5/11/11

Name:

Marcus S. Muller

Title:

CEO

Assignee Premorphic Mobile LP

Address: 4828 South Broadway Street
Suite 360
Tyler, Texas 75703

11214171/051011

Electronic Acknowledgement Receipt

EFS ID:	10071681
Application Number:	10603271
International Application Number:	
Confirmation Number:	4493
Title of Invention:	METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Michael E. Shanahan
Customer Number:	39550
Filer:	Karen J. Lenker/Valerie Jones
Filer Authorized By:	Karen J. Lenker
Attorney Docket Number:	MES002CONIII
Receipt Date:	11-MAY-2011
Filing Date:	24-JUN-2003
Time Stamp:	19:47:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Change of Address	PREMM_001A2C2- ChangeofAddress.pdf	28976 <small>905ef637681a5e4dc1b6e360db8663ef7de3c6a2</small>	no	1

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73(b).	PREMM_001A2C2-373.pdf	51893 a32e8dd814d5dfb48ceeb0f9409fa7cb5c549508	no	2
Warnings:					
Information:					
3	Power of Attorney	PREMM_000GEN-POA.PDF	350231 a4f66357a4195eda92dc67164d9ffd7bdcff2e56	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			431100		
<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><u>New Applications Under 35 U.S.C. 111</u> 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><u>National Stage of an International Application under 35 U.S.C. 371</u> 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><u>New International Application Filed with the USPTO as a Receiving Office</u> 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>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/603,271	06/24/2003	Michael E. Shanahan	MES002CONIII

CONFIRMATION NO. 4493

POWER OF ATTORNEY NOTICE

39550
KALIKO & ASSOCIATES, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446



Date Mailed: 12/30/2009

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/29/2009.

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

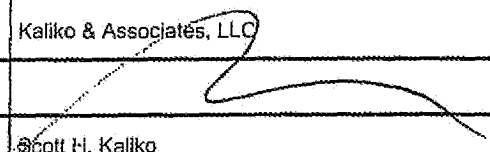
/dolipscomb/

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

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.

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/603,271	
	Filing Date	06/24/2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2614	
	Examiner Name	Binh Kien Trieu	
Total Number of Pages in This Submission	2	Attorney Docket Number	MES/602 CON III

ENCLOSURES <small>(Check all that apply)</small>		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Associates, LLO		
Signature			
Printed name	Scott H. Kaliko		
Date	12/22/2009	Reg. No.	45,786

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Cynthia F. Cummings	Date	12/22/2009

This collection of information is required by 37 CFR 1.5. 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 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.

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

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 OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	10/603,271
	Filing Date	06/24/2003
	First Named Inventor	Michael E. Shanahan
	Title	Methods And Apparatuses for Programming Use
	Art Unit	2614
	Examiner Name	Binh Kien Tieu
Attorney Docket Number	MES/002 CON III	

I hereby revoke all previous powers of attorney given in the above-identified application.

- A Power of Attorney is submitted herewith.
 OR
 I hereby appoint Practitioner(s) associated with the following Customer Number 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:
 OR
 I hereby appoint Practitioner(s) named below 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:

39550

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

- The address associated with the above-mentioned Customer Number.
 OR
 The address associated with Customer Number:

Firm or Individual Name

Address

City State Zip

Country

Telephone Email

- I am the:
- Applicant/Inventor.
 OR
 Assignee of record of the entire interest. See 37 CFR 3.71.
 Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature	<i>Kevin T. McCarthy</i>	Date	12/22/2009
Name	KEVIN T. MCCARTHY	Telephone	
Title and Company	TWENTY YEAR INNOVATIONS, INC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

*Total of _____ forms are submitted.

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.

Electronic Acknowledgement Receipt

EFS ID:	6699814
Application Number:	10603271
International Application Number:	
Confirmation Number:	4493
Title of Invention:	METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Michael E. Shanahan
Customer Number:	39550
Filer:	Scott Howard Kaliko/Cynthia Cummings
Filer Authorized By:	Scott Howard Kaliko
Attorney Docket Number:	MES002CONIII
Receipt Date:	23-DEC-2009
Filing Date:	24-JUN-2003
Time Stamp:	13:44:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	transmittalpower.pdf	422628 <small>9fea7a4418194d87b9e4cd4f79064ead2d42fd5</small>	no	1

Warnings:

Information:

2	Miscellaneous Incoming Letter	power.pdf	473086	no	1
			01ad23e56b049641293fc5245f08a7801bc74df0		

Warnings:

Information:

Total Files Size (in bytes):	895714
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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.



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	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
10/603,271	7295864	2614	9200



Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 39550 on 08/12/2009

- Correspondence Address
- Maintenance Fee Address
- Power of Attorney Address

The address of record for Customer Number 39550 is:

39550
KALIKO & ASSOCIATES, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446



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	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
10/603,271	7295864	2614	9200



Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 39950 on 08/04/2009

- Correspondence Address
- Maintenance Fee Address
- Power of Attorney Address

The address of record for Customer Number 39950 is:

**39950
JUAN CARLOS MONESTIER
JOSE ELLAURI 1086 AP 402
MONTEVIDEO, 11300
URUGUAY**

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,295,864 B2
APPLICATION NO. : 10/603271
DATED : November 13, 2007
INVENTOR(S) : Michael E. Shanahan

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

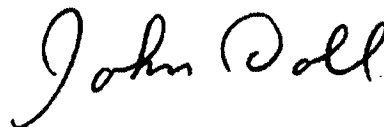
Column 7, line 37, delete "form" and insert --from--;

Column 9, line 12, delete "coverts" and insert --converts--;

Column 14, line 2, delete "to".

Signed and Sealed this

Fourteenth Day of April, 2009



JOHN DOLL
Acting Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Michael E. Shanahan	:	Customer No.: 27614
	:	
Patent No.: 7,295,864	:	Conf. No. 4493
	:	
Issue Date: November 13, 2007	:	
	:	
Serial Number: 10/603,271	:	
	:	
Filed: June 24, 2003	:	
	:	
Title: Methods and Apparatuses For	:	
Programming User-Defined	:	
Information Into Electronic Devices	:	
	:	
	:	X

ATTN: CERTIFICATE OF CORRECTIONS BRANCH
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

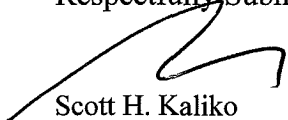
Sir:

Applicant respectfully submits this Request for a Certificate of Correction for the above-referenced patent to correct typographical errors contained in the specification. The changes are indicated on the enclosed Certificate of Correction.

Applicant authorizes the Examiner to charge the fees associated with this Certificate of Correction, and any other fees associated with this Request, and/or credit any overpayment to Deposit Account No. 503571.

Respectfully Submitted,

Date: 3/20/09


 Scott H. Kaliko
 Registration No. 45,786
 McCarter & English, LLP
 Four Gateway Center
 100 Mulberry Street
 Newark, NJ 07102
 Tel: (973) 639-7980
 Fax: (973) 461-4744

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,295,864
APPLICATION NO.: 10/603,271
ISSUE DATE : November 13, 2007
INVENTOR(S) : Michael E. Shanahan

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

Column 7, line 37, delete "form" and insert --from-- ;

Column 9, line 12, delete "coverts" and insert --converts--;

In the Claims:

Column 14, line 2, delete "to"

MAILING ADDRESS OF SENDER (Please do not use customer number below):

McCarter & English, LLP
100 Mulberry Street
Newark, NJ 07201

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 hour 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: Attention Certificate of Corrections Branch, 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.

Electronic Patent Application Fee Transmittal

Application Number:	10603271
Filing Date:	24-Jun-2003
Title of Invention:	METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Michael E. Shanahan
Filer:	Scott Howard Kaliko/Anne Erbeta
Attorney Docket Number:	MES002CONIII

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Certificate of correction	1811	1	100	100

Extension-of-Time:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt

EFS ID:	5005834
Application Number:	10603271
International Application Number:	
Confirmation Number:	4493
Title of Invention:	METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Michael E. Shanahan
Customer Number:	27614
Filer:	Scott Howard Kaliko/Anne Erbetta
Filer Authorized By:	Scott Howard Kaliko
Attorney Docket Number:	MES002CONIII
Receipt Date:	20-MAR-2009
Filing Date:	24-JUN-2003
Time Stamp:	14:37:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 100
RAM confirmation Number	8007
Deposit Account	503571
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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

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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	TransmittalLtr.pdf	38653 41940ad3b98ec025077ecac86772e7bb59ecbb2c	no	1
Warnings:					
Information:					
2	Request for Certificate of Correction	RequestforCertifofCorrection.pdf	31553 92c0aac5613aa7f85e59bcf52216423973d4788b	no	1
Warnings:					
Information:					
3	Request for Certificate of Correction	CertifofCorrection.pdf	39421 7e5f9a538a4342cc225bdfb00e98dd6f337f6e80	no	1
Warnings:					
Information:					
4	Fee Worksheet (PTO-06)	fee-info.pdf	30159 3a3cee5e64793b824594173c622fe29368d8c092	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			139786		

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

Attn: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Customer No. 27614
Confirmation No. 4493

Re: Our file: 116236-00012
Applicant: Michael E. Shanahan
Patent No.: 7,295,864
Issued: November 13, 2007
Serial No. 10/603,271
Filing Date: June 24, 2003
For: Methods and Apparatuses For Programming User-Defined
Information Into Electronic Devices

Sir:

Enclosed for filing in the United States Patent and Trademark Office is the following:

1. Communication (1 page)
2. Certificate of Correction (1 page)
3. Transmittal Sheet (1 page)

CONDITIONAL PETITION

If any extension of time is required for the submission of the above-identified items, Applicant requests that this be considered a petition therefor. Please charge any additional charges or any other charges relating to this matter, or credit any overpayment, to the Deposit Account of the writer, **Account No. 503571**.

Respectfully submitted,



Scott H. Kaliko
Registration No. 45,786
McCarter & English, LLP
Four Gateway Center
100 Mulberry Street
Newark, NJ 07102
Tel: (973) 639-7980
Fax: (973) 461-4744

3/20/09
Date

CERTIFICATE OF ELECTRONIC FILING

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office (via EFS-Web) on March 20, 2009.



Anne J. Erbetta



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	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
10/603,271	7295864	2614	9200



Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 27614 on 08/28/2008

- Correspondence Address
- Maintenance Fee Address
- Power of Attorney Address

The address of record for Customer Number 27614 is:

27614
MCCARTER & ENGLISH, LLP
FOUR GATEWAY CENTER
100 MULBERRY STREET
NEWARK, NJ 07102



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,271	11/13/2007	7295864	MES002CONIII	4493

39550 7590 10/24/2007
KALIKO & YEAGER, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446

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 1013 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 Customer Service Center of the Office of Patent Publication at (571)-272-4200.

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

Michael E. Shanahan, Nyack, NY;

PATENT
MES002 CON III

10/603,271

Related Cases

Applicant again draws the Examiner's attention to the following related cases that share a common specification with this case. These cases may be considered to have claims substantially similar to, and thus are material to, the patentability of the claims in this case. Other than the '122 and '142 applications (filed December 2006), all of the cases below have been previously brought to the Examiner's attention in and IDS filed in September 2006.

- Pkt. U.S. Patent No. 6,496,692 Shanahan 12/2002
 Bkt. U.S. Patent No. 7,149,509 Shanahan 12/2006
 Bkt. U.S. Patent application No. 09/518,846 (abandoned)
 Bkt. U.S. Patent application No. 10/603,285 (some similar or identical claims with pending rejection)
 Bkt. U.S. Patent application No. 10/223,200
 Bkt. U.S. Patent application No. 10/915,862
 Bkt. U.S. Patent application No. 10/915,866 (some similar or identical claims)
 Bkt. U.S. Patent application No. 11/633,122
 Bkt. U.S. Patent application No. 11/633,142

12/15/07

It is respectfully requested the Examiner again fully consider these cases and all associated documents in their prosecution history during the examination of this application,

JUN 22 2007

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/603,271
Filing Date	June 24, 2003
First Named Inventor	Michael E. Shanahan
Art Unit	2614
Examiner Name	Kan S. Yeager Lisa
Attorney Docket Number	MES/002 CON III

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	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 ² if known			
BKT		US-5,220,420		08-15-1993	Hoarty, et al	
		US-5,247,347		09-21-1993	Utter, et al	
		US-5,253,275		10-12-1993	Yurt, et al	
		US-5,262,228	875	11-18-1993	Mincer, et al	
		US-5,341,474		08-23-1994	Galman, et al	
		US-5,428,606		06-27-1995	Moskowitz	
		US-5,440,336		08-08-1995	Buhro, et al	
		US-5,442,749		08-16-1995	Northout, et al	
		US-5,524,141		08-04-1998	Braun, et al	
		US-5,541,917		07-30-1998	Farris	
		US-5,550,557		08-27-1996	Verbiest, et al	
		US-5,550,579	7	08-27-1996	Hoarty, et al	
		US-5,550,863		08-27-1996	Yurt, et al	
		US-5,553,311		09-03-1996	McLaughlin, et al	
		US-5,557,673		09-17-1996	Schupak	
		US-5,561,888		10-01-1996	Jones, Jr.	
		US-5,563,849		10-08-1996	Gould, et al	
		US-5,566,353		10-15-1996	Cho, et al	
BKT		US-5,588,181		10-22-1996	Greenwood, et al	

875 10/15/07

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	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	†
		Country Code ³	Number ⁴ Kind Code ⁵ if known				

Examiner Signature: *[Signature]* Date Considered: 08-06-07

*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. Applicant's unique citation designation number (optional). See Kinda Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 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 be (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 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, 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.

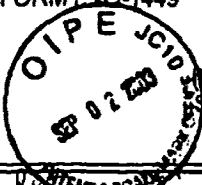
If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
MES/002 CON II

SERIAL NO.
10/603,271



INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
Michael E. Shanahan

FILING DATE
June 24, 2003

GROUP **2614**

<i>BKT</i>	6,137,525	10/00	Lee et al.	348	14.02	
	6,138,006	10/00	Foti	455	414	
	6,219,413	02/01	Burg	370	352	
	6,222,838	04/01	Sparks et al.	370	352	
	6,226,532	05/01	Ball et al. Kim et al.	704	270	
	6,229,990	05/01	Toshida	455	89	
	6,243,375	06/01	Spiecher	370	352	
	6,308,086	10/01	Yoshino	455	567	
	6,389,124	05/02	Schnarel et al.	379	142.01	
↓	6,483,531	11/02	Ryu	348	14.01	↓
<i>BKT</i>	6,496,692	12/02	Shanahan	455	418	

88
10/9/07

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
<i>BKT</i>	Vazvan WO 00/36857 June 2000
<i>BKT</i>	PCT Search Report PCT/US00/32920, Mar. 20, 2002
<i>BKT</i>	SGS Thompson Microelectronics ST 5092 Data Sheet pp. 1-29

EXAMINER *BINH TIEN*

DATE CONSIDERED *06/09/2007*

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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Bib Data Sheet

CONFIRMATION NO. 4493

SERIAL NUMBER 10/603,271	FILING OR 371(c) DATE 06/24/2003 RULE	CLASS 455	GROUP ART UNIT 2614	ATTORNEY DOCKET NO. MES002CONIII
------------------------------------	---	---------------------	-------------------------------	--

APPLICANTS

Michael E. Shanahan, Nyack, NY;

**** CONTINUING DATA ******* YES BILT.

This application is a CON of 09/518,846 03/03/2000 ABN which claims benefit of 60/169,158 12/06/1999

**** FOREIGN APPLICATIONS ******* NONE BILT

IF REQUIRED, FOREIGN FILING LICENSE GRANTED.. SMALL ENTITY **
 ** 09/10/2003

Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature: <u>BET</u> Initials:	STATE OR COUNTRY NY	SHEETS DRAWING 13	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
--	---	-------------------------------	-----------------------------	--------------------------	--------------------------------

ADDRESS
39550

TITLE

Methods and apparatuses for programming user-defined information into electronic devices

FILING FEE RECEIVED 456	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT 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) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,271	06/24/2003	Michael E. Shanahan	MES002CONIII	4493

39550 7590 09/28/2007
KALIKO & YEAGER, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446

EXAMINER

TIEU, BINH KIEN

ART UNIT	PAPER NUMBER
2614	

MAIL DATE	DELIVERY MODE
09/28/2007	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.

**Supplemental
Notice of Allowability**

Application No.

10/603,271

Examiner

/BINH K. TIEU/

Applicant(s)

SHANAHAN, MICHAEL E.

Art Unit

2614

-- 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 _____.
2. The allowed claim(s) is/are _____.
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. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 03/02/04 & 07/02/07
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. Notice of Informal Patent Application
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

/BINH K. TIEU/
Primary Examiner
Art Unit: 2614

07-02-2007

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/603,271
		Filing Date	June 24, 2003
		First Named Inventor	Michael E. Shanahan
		Art Unit	2614
		Examiner Name	Fan S. Tsang Tieu
		Attorney Docket Number	MES/002 CON III
Sheet	1	of	1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US-			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	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 ⁴
		Country Code ² Number ³ Kind Code ³ (if known)				
PAT		EP 0 851 649 A2	12-16-1997	Armano et al		
BKI		WO 9928897	12-4-1997	Divon et al		
BKI		WO 0038340	12-22-1998	Kim		
BKI		WO 9943136	02-18-1998	Rydbeck et al		
BKI		JP 09205471	08-05-1997	Hideo		

Examiner Signature		Date Considered	08-25-2007
--------------------	--	-----------------	------------

*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. ² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷ Applicant is to place a check mark here if English language translation is effected.
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 37 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, 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 (1-800-786-9199) and select option 2.

PATENT
MES002 CON IIIRelated Cases

Applicant again draws the Examiner's attention to the following related cases that share a common specification with this case. These cases may be considered to have claims substantially similar to, and thus are material to, the patentability of the claims in this case. Other than the '122 and '142 applications (filed December 2006), all of the cases below have been previously brought to the Examiner's attention in and IDS filed in September 2006.

- BKI U.S. Patent No. 6,496,692
- BKI U.S. Patent No. 7,149,509
- BKI U.S. Patent application No. 09/518,846 (abandoned)
- BKI U.S. Patent application No. 10/603,285 (some similar or identical claims with pending rejection)
- BKI U.S. Patent application No. 10/223,200
- BKI U.S. Patent application No. 10/915,862
- BKI U.S. Patent application No. 10/915,866 (some similar or identical claims)
- BKI U.S. Patent application No. 11/633,122
- BKI U.S. Patent application No. 11/633,142

It is respectfully requested the Examiner again fully consider these cases and all associated documents in their prosecution history during the examination of this application,

Foreign Patents

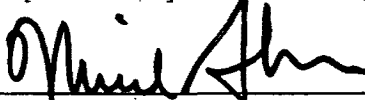
PLT	Armanto et al.	EP 0 851 649 A2	December 16, 1997
PLT	Divon et al.	WO 9928897	December 4, 1997
PLT	Kim	WO 0038340	December 22, 1998
PLT	Rydbeck et al.	WO 9943136	February 18, 1998
PLT	Hideo	JP 09205471	August 5, 1997

Because this is a continuation application, copies of these documents are not enclosed herewith. It is respectfully requested that these documents be: (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent which may issue on this application. Applicant requests that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

Applicant believes that no fee is due at this time. A duplicate copy of this Information Disclosure Statement is enclosed herewith.

An early and favorable action is respectfully requested.

Respectfully submitted,



Michael E. Shanahan
Applicant
Customer No.: 32850
P.O. Box 381
Nyack, N.Y., 10960

06-24-2003

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. MES/002 CON III	SERIAL NO. 10/603,271
	APPLICANT Michael E. Shanahan	
	FILING DATE June 24, 2003	GROUP 2614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BK	5,479,510	12/26/95	Olsen et al.	380	24	
	5,481,599	01/02/96	MacAllister et al	379	101	
	5,483,580	01/09/96	Brandman et al.	379	88	
	5,483,581	01/09/96	Hird et al.	379	132	
	5,485,370	01/16/96	Moss et al.	364	408	
	5,486,686	01/23/96	Zdybel, Jr. et al.	235	375	
	5,487,671	01/30/96	Shapiro et al.	434	185	
	5,490,210	02/06/96	Sasso	379	100	
	5,490,251	02/06/96	Clark et al.	395	200.2	
	5,499,288	03/12/96	Hunt et al.	379	88	
	5,510,777	04/23/96	Pilc et al.	340	825.310	
	5,513,272	04/30/96	Bogosian, Jr.	382	116	
	5,517,605	05/14/96	Wolf	395	155	
	5,526,620	06/18/96	Hallsten	52	246	
	5,530,852	06/25/96	Meske, Jr. et al.	395	600	
	5,533,115	07/02/96	Hollenbach et al.	379	220	
	5,534,855	07/09/96	Shockley et al.	340	825.300	
	5,537,586	07/16/96	Amram et al.	395	600	
	5,542,046	07/30/96	Carlson et al.	395	186	
	5,544,255	08/06/96	Smithies et al.	382	119	
	5,544,322	08/06/96	Cheng et al.	395	200.12	
	5,548,726	08/20/96	Pettus	395	200.09	
	5,550,976	08/27/96	Henderson et al.	395	200.06	
	5,551,021	08/27/96	Harada et al.	395	600	
	5,598,461	01/28/97	Greenberg	379	67	
	5,608,786	03/04/97	Gordon	379	100	
	5,613,012	03/18/97	Hoffman et al	382	115	
	5,623,531	04/22/97	Nilssen	379	56	
BK	5,661,802	08/26/97	Nilssen	380	20	

EXAMINER

BINH TIEU

DATE CONSIDERED

08-25-2007

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

EV132183444US

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MES/002 CON III	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Michael E. Shanahan	
		FILING DATE June 24, 2003	GROUP <u>2614</u>

BKT	5,687,227	11/11/97	Cohrs et al.	379	374	
	5,689,825	11/18/97	Averbuch et al.	455	89	
	5,727,047	03/10/98	Bentley et al.	379	93	
	5,796,728	08/18/98	Rondeau et al.	370	338	
	5,828,956	10/27/98	Shirai	455	411	
	5,884,262	03/16/99	Wise et al.	704	270	
	5,915,001	06/22/99	Uppaluru	379	88.22	
	5,926,756	07/20/99	Piosenka et al.	455	418	
	5,930,703	07/27/99	Cairns	455	418	
	5,940,752	08/17/99	Henrick	455	419	
	5,953,638	09/14/99	Flood et al.	455	31.2	
	5,999,094	12/07/99	Nilssen	340	507	
	5,999,599	12/07/99	Schaffer et al.	379	93.23	
	6,002,761	12/14/99	Sremac	379	374	
	6,018,654	01/25/00	Valentine et al.	455	414	
	6,018,656	01/25/00	Shirai	455	422	
	6,035,018	03/07/00	Kaufman	379	88.17	
	6,035,189	03/07/00	Ali-Vehmas et al.	455	414	
	6,058,161	05/02/00	Anderson et al.	379	27	
	6,073,003	06/06/00	Nilssen	455	402	
	6,088,730	07/11/00	Kato et al.	709	227	
	6,094,587	07/25/00	Armanto et al.	455	567	
	6,144,722	11/07/00	Anderson et al.	379	27	
	6,167,130	12/26/00	Rosen	379	355	
	6,167,278	12/26/00	Nilssen	455	462	
	6,179,682	01/30/01	Plain et al.	446	141	
↓	6,256,378	07/03/01	Iggulden et al.	379	102.3	
BKT	6,366,791	04/02/02	Lin et al.	455	567	↓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
BKT	PCT Written Opinion

EXAMINER

BINH K. TIEU

DATE CONSIDERED

08-25-2007

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,271	06/24/2003	Michael E. Shanahan	MES002CONIII	4493
39550	7590	08/29/2007	EXAMINER	
KALIKO & YEAGER, L.L.C. 500 NORTH FRANKLIN TURNPIKE RAMSEY, NJ 07446			TIEU, BINH KIEN	
			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			08/29/2007	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.

Interview Summary	Application No.	Applicant(s)	
	10/603,271	SHANAHAN, MICHAEL E.	
	Examiner	Art Unit	
	/BINH K. TIEU/	2614	

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

- (1) /BINH K. TIEU/ (3) _____
 (2) Applicant's Attorney. (4) _____

Date of Interview: 08-24-2007

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: _____

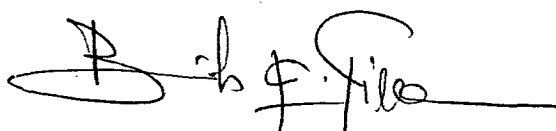
Identification of prior art discussed: _____

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: Discussed about the IDS 1449 form filed on 06/24/2007 wherein its references were not initialed by the Examiner. The Examiner agreed that a "Supplemental Notice of Allowance" with the attached copy of the initialed IDS 1449 form will be mailed out shortly.

(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.


BINH TIEU
PRIMARY EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

 Examiner's signature, if required



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Bib Data Sheet

CONFIRMATION NO. 4493

SERIAL NUMBER 10/603,271	FILING OR 371(c) DATE 06/24/2003 RULE	CLASS 455	GROUP ART UNIT 2614	ATTORNEY DOCKET NO. MES002CONIII
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APPLICANTS
 Michael E. Shanahan, Nyack, NY;

**** CONTINUING DATA ******* YES BILT.
 This application is a CON of 09/518,846 03/03/2000 ABN which claims benefit of 60/169,158 12/06/1999

**** FOREIGN APPLICATIONS ******* NONE BILT

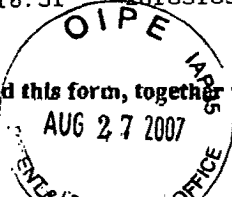
IF REQUIRED, FOREIGN FILING LICENSE GRANTED SMALL ENTITY ****
**** 09/10/2003**

Foreign Priority claimed 35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance BILT	STATE OR COUNTRY NY	SHEETS DRAWING 13	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
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ADDRESS
 39550

TITLE
 Methods and apparatuses for programming user-defined information into electronic devices

FILING FEE RECEIVED 456	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT 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) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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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

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39550 7590 08/08/2007

KALIKO & YEAGER, L.L.C. 500 NORTH FRANKLIN TURNPIKE RAMSBY, NJ 07446

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.

08/27/2007 FHETEKI2 00000089 10603271

Mandy Ellis (Depositor's name) Mandy Ellis (Signature) 8/27/07 (Date)

01 FC:2501 700.00 OP 02 FC:1504 300.00 OP

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Values: 10/603,271, 06/24/2003, Michael E. Shanahan, MES002CON111, 4493

TITLE OF INVENTION: METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE. Values: nonprovisional, YES, \$700, \$300, \$0, \$1000, 11/08/2007

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS. Values: TTEU, BINH KIEN, 2614, 455-567000

- 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (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.

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

- 4a. The following fee(s) are submitted: Issue Fee, Publication Fee (No small entity discount permitted), Advance Order - # of Copies. 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed, Payment by credit card. Form PTO-2038 is attached, 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).

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: Scott H. Kaliko Date: 8/27/07 Registration No.: 45,786

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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Mail Stop Issue Fee Commissioner for Patents	Scott H. Kaliko, Esq. SENDER'S FAX NUMBER: 201-831-0519 SENDER'S TELEPHONE NUMBER: 201-831-0575
COMPANY:	DATE:
United States Patent & Trademark Office	AUGUST 27, 2007
RECIPIENT'S FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
571-273-2885	4
RECIPIENT'S TELEPHONE NUMBER:	CLIENT / MATTER:
RE:	YOUR REFERENCE NUMBER:
Application No. 10/603,271	MES/002 CON III

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

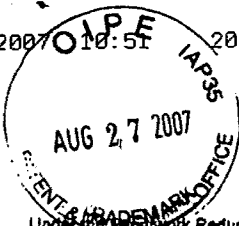
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/603,271	
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2814	
	Examiner Name	Binh Kien Tlau	
Total Number of Pages in This Submission	4	Attorney Docket Number	MES/002 CON III

ENCLOSURES <i>(Check all that apply)</i>		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD. Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager L.L.C.		
Signature			
Printed name	Scott H. Kaliko, Esq.		
Date	August 27, 2007	Reg. No.	45,786

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	
Signature	
Typed or printed name	Scott H. Kaliko, Esq.
Date	August 27, 2007

This collection of information is required by 37 CFR 1.5. 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 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.

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39550 7590 08/08/2007
KALIKO & YEAGER, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446

EXAMINER
TIEU, BINH KIEN
ART UNIT PAPER NUMBER

2614
DATE MAILED: 08/08/2007

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

10/603,271 06/24/2003 Michael E. Shanahan MES002CONIII 4493

TITLE OF INVENTION: METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

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 \$700 \$300 \$0 \$1000 11/08/2007

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.

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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.

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39550 7590 08/08/2007

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 500 NORTH FRANKLIN TURNPIKE
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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/603,271 06/24/2003 Michael E. Shanahan MES002CONIII 4493

TITLE OF INVENTION: METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional YES \$700 \$300 \$0 \$1000 11/08/2007

EXAMINER	ART UNIT	CLASS-SUBCLASS
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TIEU, BINH KIEN 2614 455-567000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

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- 3 _____

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

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- 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).

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.

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Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
10/603,271 06/24/2003 Michael E. Shanahan MES002CONIII 4493

39550 7590 08/08/2007

KALIKO & YEAGER, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446

EXAMINER

TIEU, BINH KIEN

ART UNIT PAPER NUMBER

2614

DATE MAILED: 08/08/2007

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 1013 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 1013 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.

Notice of Allowability	Application No.	Applicant(s)	
	10/603,271	SHANAHAN, MICHAEL E.	
	Examiner	Art Unit	
	/BINH K. TIEU/	2614	

-- 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 6/22/2007.
2. The allowed claim(s) is/are 2-31.
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)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>6/22/07</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|--|--|

DETAILED ACTION

Allowable Subject Matter

1. Claims 2-31 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The Applicants timely filed a terminal disclaimer, on 06/22/2007, to overcome the double patenting rejection of claims 2-31 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-81 of U.S. Patent No. 7,149,509 in compliance with 37 CFR 1.321. Said double patenting rejections were raised in the previous Non-Final Office Action mailed 06/13/2007. Therefore, claims 38-61 are allowed with the reasons set forth above

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."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh K. Tieu whose telephone number is (571) 272-7510 and E-mail address: BINH.TIEU@USPTO.GOV.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (571) 272-7499 and **IF PAPER HAS BEEN**

Art Unit: 2614

MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL CUSTOMER SERVICE FOR THE SUBSTITUTIONS OR COPIES.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

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Hand Carry Deliveries to:

Customer Service Window
(Randolph Building)
401 Dulany Street
Alexandria, VA 22314

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).

/BINH K. TIEU/

Primary Examiner
Technology Division 2614

Date: August 2007

PATENT
MES002 CON IIIRelated Cases

Applicant again draws the Examiner's attention to the following related cases that share a common specification with this case. These cases may be considered to have claims substantially similar to, and thus are material to, the patentability of the claims in this case. Other than the '122 and '142 applications (filed December 2006), all of the cases below have been previously brought to the Examiner's attention in and IDS filed in September 2006.

BKT U.S. Patent No. 6,496,692
BKT U.S. Patent No. 7,149,509
BKT U.S. Patent application No. 09/518,846 (abandoned)
BKT U.S. Patent application No. 10/603,285 (some similar or identical claims with pending rejection)
BKT U.S. Patent application No. 10/223,200
BKT U.S. Patent application No. 10/915,862
BKT U.S. Patent application No. 10/915,866 (some similar or identical claims)
BKT U.S. Patent application No. 11/633,122
BKT U.S. Patent application No. 11/633,142

It is respectfully requested the Examiner again fully consider these cases and all associated documents in their prosecution history during the examination of this application,

JUN 22 2007

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/603,271
		Filing Date	June 24, 2003
		First Named Inventor	Michael E. Shanahan
		Art Unit	2614
		Examiner Name	Fan S. Tsang <i>Tien</i>
Sheet 1 of 3	Attorney Docket Number	MES/002 CON III	

Examiner Initials*	Cite No. ¹	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 ² (if known)			
BKT		US-	5,220,420	06-15-1993	Hoarty, et al	
		US-	5,247,347	09-21-1993	Litter, et al	
		US-	5,253,275	10-12-1993	Yurt, et al	
		US-	5,262,275	11-16-1993	Mincer, et al	
		US-	5,341,474	08-23-1994	Galman, et al	
		US-	5,428,606	06-27-1995	Moskowitz	
		US-	5,440,336	08-08-1995	Buhro, et al	
		US-	5,442,749	08-15-1995	Northcutt, et al	
		US-	5,524,141	06-04-1996	Braun, et al	
		US-	5,541,917	07-30-1996	Farris	
		US-	5,550,557	08-27-1996	Verbiest, et al	
		US-	5,550,578	08-27-1996	Hoarty, et al	
		US-	5,550,863	08-27-1996	Yurt, et al	
		US-	5,553,311	09-03-1996	McLaughlin, et al	
		US-	5,557,875	09-17-1996	Schupak	
		US-	5,561,888	10-01-1996	Jones, Jr.	
		US-	5,563,649	10-08-1996	Gould, et al	
	US-	5,566,353	10-15-1996	Cho, et al		
BKT		US-	5,588,181	10-22-1996	Greenwood, et al	

Examiner Initials*	Cite No. ¹	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 ³
		Country Code ²	Number * Kind Code ² (if known)				

Examiner Signature	<i>[Signature]</i>	Date Considered	08-06-07
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¹EXAMINER: 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. ² Applicant's unique citation designation number (optional). ³ See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ⁷ 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 1.99. 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 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, 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.

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PTO/SB/08A (07-05)

Approved for use through 07/31/2008, OMB 0651-0031

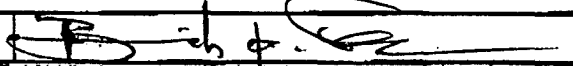
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Art Unit	2614
	Examiner Name	Fan S. Tsang
Sheet 2 of 3	Attorney Docket Number	MES/002 CON III

Examiner Initials*	Cite No. ¹	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 ² (if known)	MM-DD-YYYY		
BKT		US- 5,570,126	10-29-1996	Blahut, et al	
		US- 5,577,190	11-19-1996	Peters	
		US- 5,613,190	03-18-1987	Myton	
		US- 5,613,191	03-18-1997	Myton, et al	
		US- 5,619,247	04-08-1997	Russo	
		US- 5,625,404	04-29-1997	Grady, et al	
		US- 5,625,405	04-29-1997	DuLac, et al	
		US- 5,644,354	07-01-1997	Thompson, et al	
		US- 5,675,738	10-07-1997	Suzuki, et al	
		US- 5,677,905	10-14-1997	Bigham, et al	
		US- 5,680,325	10-21-1997	Rohner	
		US- 5,790,423	08-04-1998	Lau, et al	
		US- 5,793,413	08-11-1998	Hylton, et al	
		US- 5,793,980	08-11-1998	Glaser, et al	
		US- 5,880,770	03-09-1999	Ilcisin, et al	
		US- 5,926,624	07-20-1999	Katz, et al	
		US- 5,943,046	08-24-1999	Cava, et al	
		US- 5,983,069	11-09-1999	Cho, et al	
BKT		US- 5,986,690	11-16-1999	Handricks	

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)	MM-DD-YYYY			

Examiner Signature		Date Considered	08-08-07
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***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. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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PTO/SB/DBA (07-05)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	10/603,271
Filing Date	June 24, 2003
First Named Inventor	Michael E. Shanahan
Art Unit	2614
Examiner Name	Pat C Tsang TIEU
Attorney Docket Number	MES/002 CON III

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY		
BKI		US- 6,002,720	12-14-1999	Yurt, et al	
BKI		US- 6,151,491	11-21-2000	Farris, et al	
BKI		US- 7,088,990	08-08-2006	Isomursu, et al	
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		Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		
BKI		Canadian Office Action	09-19-2006			

Examiner Signature		Date Considered	08-06-07
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Notice of References Cited	Application/Control No. 10/603,271	Applicant(s)/Patent Under Reexamination SHANAHAN, MICHAEL E.	
	Examiner /BINH K. TIEU/	Art Unit 2614	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,366,791	04-2002	Lin et al.	455/567
*	B	US-6,138,006	10-2000	Foti, George	455/414.1
*	C	US-6,094,587	07-2000	Armanto et al.	455/567
*	D	US-5,870,683	02-1999	Wells et al.	455/566
*	E	US-5,724,411	03-1998	Eisdorfer et al.	379/93.23
*	F	US-7,035,675	04-2006	Yamada, Tsutomu	455/567
*	G	US-7,113,981	09-2006	Slate, Michael L.	709/217
*	H	US-7,119,268	10-2006	Futamase et al.	84/622
*	I	US-7,161,081	01-2007	Futamase et al.	84/622
*	J	US-7,203,523	04-2007	Ito, Shuhei	455/567
*	K	US-6,603,985	08-2003	Ichihashi, Tamami	455/567
*	L	US-7,013,006	03-2006	Tischer, Steven N.	379/373.02
*	M	US-7,020,497	03-2006	Deeds, Douglas	455/567

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date 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.

Notice of References Cited	Application/Control No. 10/603,271	Applicant(s)/Patent Under Reexamination SHANAHAN, MICHAEL E.	
	Examiner /BINH K. TIEU/	Art Unit 2614	Page 2 of 2

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-7,031,453	04-2006	Busardo, Philip J.	379/373.02
*	B US-6,449,359	09-2002	Luzzatto et al.	379/373.01
*	C US-6,718,021	04-2004	Crockett et al.	379/93.23
*	D US-7,065,342	06-2006	Rolf, Devon A.	455/412.1
*	E US-6,501,967	12-2002	Makela et al.	455/567
*	F US-6,496,692	12-2002	Shanahan, Michael E.	455/418
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			


FOREIGN PATENT DOCUMENTS

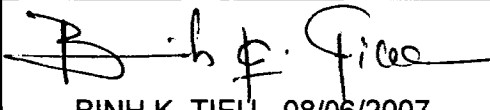
*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
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	P				
	Q				
	R				
	S				
	T				

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*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	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.

Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/603,271	SHANAHAN, MICHAEL E.	
	Examiner	Art Unit	
	/BINH K. TIEU/	2614	

ISSUE CLASSIFICATION											
ORIGINAL					CROSS REFERENCE(S)						
CLASS	SUBCLASS				CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
455	567				455	413	418				
INTERNATIONAL CLASSIFICATION											
H	0	4	M	3/00							
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(Assistant Examiner) (Date)					 BINH K. TIEU 08/06/2007 (Primary Examiner) (Date)					Total Claims Allowed: 30	
(Legal Instruments Examiner) (Date)										O.G. Print Claim(s)	O.G. Print Fig.
										1	7

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input checked="" type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1	30	31		61		121
1	2		32		62		122
2	3		33		63		123
3	4		34		64		124
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Index of Claims



Application/Control No.

10/603,271

Examiner

BINH K. TIEU

Applicant(s)/Patent under Reexamination

SHANAHAN

Art Unit

2614

√	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date	
Final	Original		
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Claim		Date	
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Bib Data Sheet

CONFIRMATION NO. 4493

SERIAL NUMBER 10/603,271	FILING OR 371(c) DATE 06/24/2003 RULE	CLASS 455	GROUP ART UNIT 2614	ATTORNEY DOCKET NO. MES002CONIII
------------------------------------	---	---------------------	-------------------------------	--

APPLICANTS

Michael E. Shanahan, Nyack, NY;

**** CONTINUING DATA ******* YES Bkt.

This application is a CON of 09/518,846 03/03/2000 ABN which claims benefit of 60/169,158 12/06/1999

**** FOREIGN APPLICATIONS ******* NONE Bkt.

IF REQUIRED, FOREIGN FILING LICENSE GRANTED SMALL ENTITY ****

** 09/10/2003

Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature: <u>Bkt</u> Initials:	STATE OR COUNTRY NY	SHEETS DRAWING 13	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
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ADDRESS

39550

TITLE

Methods and apparatuses for programming user-defined information into electronic devices

FILING FEE RECEIVED 456	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT 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) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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Search Notes



Application/Control No.

10/603,271

Examiner

BINH K. TIEU

Applicant(s)/Patent under Reexamination

SHANAHAN

Art Unit

2614

SEARCHED

Class	Subclass	Date	Examiner
455	414.1	6/9/2007	BKT
	415		
	502, 557		
	566-567		
	418-419		
379	88.13		
348	14.06		
725	1, 21		
"	46, 104		
709	219		
UPDATED SEARCH		8/6/07	BKT
455	413	"	"

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
"PG-DUB TEXT SEARCH			
08-06-2007			
SEE INTERFERENCE SEARCH			
PRINTOUT			BKT

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
WEST DATABASES SEARCH	6/9/2007	BKT

"INTERFERENCE"
Refine Search

Search Results -

Terms	Documents
(polyphonic audio file same wireless telephone same incoming communication) and (browse same list same polyphonic audio files) and (optionally download same selected polyphonic audio file)	0

Database: **US Pre-Grant Publication Full-Text Database**
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search: L1

Search History

DATE: Monday, August 06, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set Name</u> <u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> <u>result set</u>
side by side DB=PGPB; PLUR=YES; OP=ADJ (polyphonic audio file same wireless telephone same incoming communication) and (browse same list same polyphonic audio files) and (optionally download same selected polyphonic audio file)	0	L1

END OF SEARCH HISTORY



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(201) 831-0519 Main Fax

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TO: Commissioner for Patents	FROM: Scott H. Kaliko, Esq. SENDER'S FAX NUMBER: 201-831-0519 SENDER'S TELEPHONE NUMBER: 201-831-0575
COMPANY: United States Patent & Trademark Office	DATE: JULY 2, 2007
RECIPIENT'S FAX NUMBER: 571-273-8300	TOTAL NO. OF PAGES INCLUDING COVER: 8
RECIPIENT'S TELEPHONE NUMBER:	CLIENT / MATTER:
RE: Application No. 10/603,271	YOUR REFERENCE NUMBER: MES/002 CON III

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

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2. Fee Transmittal (2 Copies); and
3. Credit Card Payment Form; and
4. Information Disclosure Statement

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PTO/SB/21 (09-04)

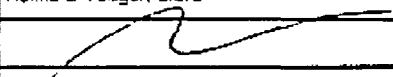
Approved for use through 07/31/2006. OMB 0651-0031

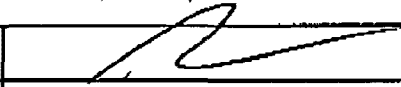
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Art Unit	2614
	Examiner Name	Kien Binh Tieu
	Attorney Docket Number	MES/002 CON III
Total Number of Pages In This Submission		8

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 checked="" 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	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	
	1. Credit Card Payment Form; and	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager, L.L.C.		
Signature			
Printed name	Scott H. Kaliko, Esq.		
Date	July 2, 2007	Reg. No.	45,786

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Scott H. Kaliko, Esq.	Date	July 2, 2007

This collection of information is required by 37 CFR 1.5. 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 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.

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PTO/SB/17 (01-06)
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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4918) FEE TRANSMITTAL For FY 2006		Complete if Known	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/603,271
TOTAL AMOUNT OF PAYMENT (\$)		Filing Date	June 24, 2003
180.00		First Named Inventor	Michael E. Shanahan
		Examiner Name	Kien Binh Tieu
		Art Unit	2614
		Attorney Docket No.	MES/002 CON III

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

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

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FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

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 (\$)**

_____ - 20 or HP = _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**

_____ - 3 or HP = _____ 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)

Description	Fee (\$)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	_____	_____
Other (e.g., late filing surcharge): Pursuant to 37 CFR § 1.17 (p)	_____	180.00

SUBMITTED BY

Signature	Registration No. 45,786 (Attorney/Agent)	Telephone 201-831-0575
Name (Print/Type) Scott H. Kaliko, Esq.		Date July 2, 2007

This collection of information is required by 37 CFR 1.138. 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 30 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.

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4010). FEE TRANSMITTAL For FY 2006		Complete if Known	
		Application Number	10/603,271
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	June 24, 2003
		First Named Inventor	Michael E. Shanahan
		Examiner Name	Kien Binh Tieu
		Art Unit	2614
		Attorney Docket No.	MES/002 CON III
TOTAL AMOUNT OF PAYMENT	(\$)	180.00	

METHOD OF PAYMENT (check all that apply)

Check
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 Money Order
 None
 Other (please identify): _____

Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

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 (All the fees below are due upon filing or may be subject to a surcharge.)

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 (\$)**
 _____ - 20 or HP = _____ x _____ = _____
 HP = highest number of total claims paid for, if greater than 20.

Indop. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
 _____ - 3 or HP = _____ 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)

Description	Fee (\$)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)		
Other (e.g., late filing surcharge): Pursuant to 37 CFR § 1.17 (p)		180.00

SUBMITTED BY

Signature	Registration No. 45,786 (Attorney/Agent)	Telephone 201-831-0575
Name (Print/Type) Scott H. Kaliko, Esq.		Date July 2, 2007

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PATENT
MES002 CON III

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael E. Shanahan

Application No. : 10/603,271 Confirmation No.: 4493

Filed : June 24, 2003

Title : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION
INTO ELECTRONIC DEVICES

Examiner : Kien Binh Tieu

Group Art Unit : 2614

July 2, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22213-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, 1.98 and in accordance with MPEP §§ 2001 and 2002, applicant hereby reminds the Examiner of the below related applications.

PATENT
MES002 CON IIIRelated Cases

Applicant again draws the Examiner's attention to the following related cases that share a common specification with this case. These cases may be considered to have claims substantially similar to, and thus are material to, the patentability of the claims in this case. Other than the '122 and '142 applications (filed December 2006), all of the cases below have been previously brought to the Examiner's attention in and IDS filed in September 2006.

U.S. Patent No. 6,496,692

U.S. Patent No. 7,149,509

U.S. Patent application No. 09/518,846 (abandoned)

U.S. Patent application No. 10/603,285 (some similar or identical claims with pending rejection)

U.S. Patent application No. 10/223,200

U.S. Patent application No. 10/915,862

U.S. Patent application No. 10/915,866 (some similar or identical claims)

U.S. Patent application No. 11/633,122

U.S. Patent application No. 11/633,142

It is respectfully requested the Examiner again fully consider these cases and all associated documents in their prosecution history during the examination of this application,


PATENT
MES002 CON III

make them of record, and review these related cases prior to the issuance of any notice of allowance on this case.

Although it is believed no fee is due in connection with this reminder, included is a USPTO Credit Card payment form which authorizes charges for \$180.00 in payment of IDS fee pursuant to 37 C.F.R. § 1.17 (p) if any such fee is believed to be due.

Respectfully submitted,

7/2/07
Date



Scott H. Kaliko
Attorney for Applicant
Registration No. 45,786
KALIKO & YEAGER, L.L.C.
500 North Franklin Turnpike
Ramsey, NJ 07446
Direct: 201-831-0575
Fax: 201-831-0519

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JUN 22 2007

MES/002 CON III

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael E. Shanahan

Application No. : 10/603,271 Confirmation No.: 4493

Filed : June 24, 2003

Title : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO
ELECTRONIC DEVICES

Examiner : Fan S. Tsang

Group Art Unit : 2614

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

June 22, 2007
Ramsey, New Jersey

REPLY TO OFFICE ACTION

Sir:

In response to the Office Action dated June 13, 2007

Remarks begin on page 2 of this paper.

Conclusion begins on page 3 of this paper.

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REMARKS

I. Introduction

Applicant notes with appreciation that claims 2-31 have been indicated as allowable.

Claims 2-31 are rejected pursuant to a non-statutory double patenting rejection.

A supplemental IDS is filed herewith.

Consideration and allowance of this application in light of terminal disclaimer filed herewith is respectfully requested.

II. Applicant's Reply to the Double Patenting Rejection

Claims 2-31 are rejected pursuant to a non-statutory double patenting rejection in light of U.S. Patent No. 7,149,509.

Applicant timely files herewith a terminal disclaimer pursuant to 37 C.F.R. § 321 with respect to U.S. Patent No. 7,149,509.

Accordingly, applicant respectfully requests that the double patenting rejection be withdrawn.

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III. Conclusion

Based on the above, claims 2-31 are patentable. Thus, applicant respectfully requests that this case, including claims 2-31, proceed to allowance. The Examiner is invited to call the applicant's undersigned representative to discuss any issues relating to this application.

Respectfully submitted,

Dated: 6/22/2007



Scott H. Kaliko
 Attorney for Applicant
 Registration No. 45,786
 KALIKO & YEAGER, L.L.C.
 500 North Franklin Turnpike
 Ramsey, NJ 07446
 Direct: 201-831-0575
 Fax: 201-831-0519

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PTO/SB/26 (04-07)
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**TERMINAL DISCLAIMER TO OBTAIN A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**

Docket Number (Optional)
MES/002 CON III

In re Application of: Michael E. Shanahan

Application No.: 10/603, 271

Filed: June 24, 2003

For: Methods and Apparatuses for Programming User-Defined Information into Electronic Devices:

The owner, Twenty Year Innovations, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term prior patent No. 7,149,509 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:


- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

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 Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. The undersigned is an attorney or agent of record. Reg. No. 45,786



Signature

06/22/2007

Date

Scott H. Kaliko, Esq.
Typed or printed name

201-831-0575
Telephone Number

- Terminal disclaimer fee under 37 CFR 1.20(d) included.

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*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

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PATENT
MES/002 CON III

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael E. Shanahan

Serial No. : 10/603,271 Confirmation No.: 4493

Filed : June 24, 2003

Title : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC
DEVICES.

Examiner : Fan S. Tsang

Group Art Unit : 2614

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22213-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant hereby makes the documents listed below of record in the above-identified application.

U.S. Patents

Hoarty, et al	Patent No. 5,220,420	June 15, 1993
Litter, et al	Patent No. 5,247,347	Sept 21, 1993
Yurt, et al	Patent No. 5,253,275	Oct 12, 1993

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PATENT
MES/002 CON III

Mincer, et al	Patent No. 5,262,275	Nov 16, 1993
Gelman, et al	Patent No. 5,341,474	Aug 23, 1994
Moskowitz	Patent No. 5,428,606	June 27, 1995
Buhro, et al	Patent No. 5,440,336	Aug 8, 1995
Northcutt, et al	Patent No. 5,442,749	Aug 15, 1995
Braun, et al	Patent No. 5,524,141	June 4, 1996
Farris	Patent No. 5,541,917	July 30, 1996
Verbiest, et al	Patent No. 5,550,557	Aug 27, 1996
Hoarty, et al	Patent No. 5,550,578	Aug 27, 1996
Yurt, et al	Patent No. 5,550,863	Aug 27, 1996
McLaughlin, et al	Patent No. 5,553, 311	Sept 3, 1996
Schupak	Patent No. 5,557,675	Sept 17, 1996
Jones, Jr.	Patent No. 5,561,688	Oct 1, 1996
Gould, et al	Patent No. 5,563,649	Oct 8, 1996
Cho, et al	Patent No. 5,566,353	Oct 15, 1996
Greenwood, et al	Patent No. 5,568,181	Oct 22, 1996
Blahut, et al	Patent No. 5,570,126	Oct 29, 1996
Peters	Patent No. 5,577,190	Nov 19, 1996
Hylton	Patent No. 5,613,190	March 18, 1997
Hylton, et al	Patent No. 5,613,191	March 18, 1997
Russo	Patent No. 5,619,247	April 8, 1997
Grady, et al	Patent No. 5,625,404	April 29, 1997
DuLac, et al	Patent No. 5,625,405	April 29, 1997
Thompson, et al	Patent No. 5,644,354	July 1, 1997
Suzuki, et al	Patent No. 5,675,738	Oct 7, 1997
Bigham, et al	Patent No. 5,677,905	Oct 14, 1997

PATENT
MES/002 CON III

Rohner	Patent No. 5,680,325	Oct 21, 1997
Lau, et al	Patent No. 5,790,423	Aug 4, 1998
Hylton, et al	Patent No. 5,793,413	Aug 11, 1998
Glaser, et al	Patent No. 5,793,980	Aug 11, 1998
Ilcisin, et al	Patent No. 5,880,770	March 9, 1999
Katz, et al	Patent No. 5,926,624	July 20, 1999
Cave, et al	Patent No. 5,943,046	Aug 24, 1999
Cho, et al	Patent No. 5,983,069	Nov 9, 1999
Hendricks	Patent No. 5,986,690	Nov 16, 1999
Yurt, et al	Patent No. 6,002,720	Dec 14, 1999
Farris, et al	Patent No. 6,151,491	Nov 21, 2000
Isomursu, et al	Patent No. 7,088,990	Aug 8, 2006

Foreign Office Action

Canadian Office Action dated September 19, 2006 copy included.


It is respectfully requested the Examiner fully consider these and any associated documents during the examination of this application, make them of record, and indicate his or her consideration of the documents by initialing the enclosed Citation List adjacent the citation of each document, and print them on any patent that may issue on this application. It is requested that a copy of the initialed Citation form be returned to applicant's undersigned Attorney. Citing of references herein shall not be deemed an admission that such references are prior art. Copies of the cited references are transmitted herewith.

PATENT
MES/002 CON III

Included is a USPTO Credit Card payment form which authorizes charges for \$180.00 in payment of IDS fee pursuant to 37 C.F.R. § 1.17 (p) and § 1.97(c) (2).

Respectfully submitted,

6/22/07
Date



Scott H. Kaliko
Attorney for Applicant
Registration No. 45,786
KALIKO & YEAGER, L.L.C.
500 North Franklin Turnpike
Ramsey, NJ 07446
Direct: 201-831-0575
Fax: 201-831-0519

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PTO/SB/08A (07-05)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known	
	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Art Unit	2614
	Examiner Name	Fan S. Tsang
Sheet 1 of 3	Attorney Docket Number	MES/002 CON III

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US- 5,220,420	06-15-1993	Hoarty, et al	
		US- 5,247,347	09-21-1993	Litler, et al	
		US- 5,253,275	10-12-1993	Yurt, et al	
		US- 5,262,275	11-16-1993	Mincer, et al	
		US- 5,341,474	08-23-1994	Gelman, et al	
		US- 5,428,606	06-27-1995	Moskowitz	
		US- 5,440,336	08-08-1995	Buhro, et al	
		US- 5,442,749	08-15-1995	Northcutt, et al	
		US- 5,524,141	06-04-1996	Braun, et al	
		US- 5,541,917	07-30-1996	Famis	
		US- 5,550,557	08-27-1996	Verbiest, et al	
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		US- 5,550,863	08-27-1996	Yurt, et al	
		US- 5,553,311	09-03-1996	McLaughlin, et al	
		US- 5,557,675	09-17-1996	Schupak	
		US- 5,561,688	10-01-1996	Jones, Jr.	
		US- 5,563,649	10-08-1996	Gould, et al	
		US- 5,566,353	10-15-1996	Cho, et al	
		US- 5,568,181	10-22-1996	Greenwood, et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	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	*6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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	Examiner Name	Fan S. Tsang
Attorney Docket Number	MES/002 CON III	
Sheet 2	of 3	

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		US- 5,793,980	08-11-1998	Glaser, et al	
		US- 5,880,770	03-09-1999	Ilcisin, et al	
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		US- 5,943,046	08-24-1999	Cava, et al	
		US- 5,983,069	11-09-1999	Cho, et al	
		US- 5,986,690	11-16-1999	Hendricks	

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		Country Code ² Number ⁴ Kind Code ⁵ (if known)				

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	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Art Unit	2614
	Examiner Name	Fan S. Tsang
Sheet 3 of 3	Attorney Docket Number	MES/002 CONT III

U. S. PATENT DOCUMENTS					
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		US- 6,002,720	12-14-1999	Yurt, et al	
		US- 6,151,491	11-21-2000	Farris, et al	
		US- 7,088,990	08-08-2006	Isomursu, et al	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		Canadian Office Action	09-19-2006			

Examiner Signature	Date Considered
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8. Copy of Canadian Office Action dated Sept. 19, 2006.

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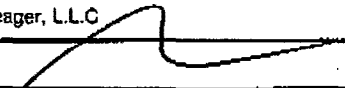
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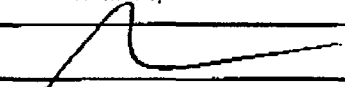
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/603,271	
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2814	
	Examiner Name	Fan S. Tsang	
Total Number of Pages in This Submission	18	Attorney Docket Number	MES/002 CON III

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 checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" 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	<input type="checkbox"/> Status Letter
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager, L.L.C.		
Signature			
Printed name	Scott H. Kaliko, Esq.		
Date	June 22, 2007	Reg. No.	45,786

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Scott H. Kaliko, Esq.	Date	June 22, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or maintain 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 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.

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JUN 22 2007

PTO/SB/17 (01-06)
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FEE TRANSMITTAL For FY 2006		<i>Complete if Known</i>	
		Application Number	10/603,271
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	June 24, 2003
TOTAL AMOUNT OF PAYMENT (\$) 245.00		First Named Inventor	Michael E. Shanahan
		Examiner Name	Fan S. Tsang
		Art Unit	2614
		Attorney Docket No.	MES/002 CON III

METHOD OF PAYMENT (check all that apply)

Check
 Credit Card
 Money Order
 None
 Other (please identify): _____

Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

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

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

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 - 20 or HP = _____ x _____ = _____
 HP = highest number of total claims paid for, if greater than 20.

Indep. Claims - 3 or HP = _____ 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 - 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Description	Fee (\$)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	_____	_____
Other (e.g., late filing surcharge): Pursuant to 37 CFR § 1.17 (p) Terminal Disclaimer CFR 1.321 and 1.27	_____	245.00

SUBMITTED BY

Signature	Registration No. 45,786 (Attorney/Agent)	Telephone 201-831-0575
Name (Print/Type) Scott H. Kaliko, Esq.		Date June 22, 2007

This collection of information is required by 37 CFR 1.136. 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 30 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.

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). FEE TRANSMITTAL For FY 2006		Complete if Known RECEIVED CENTRAL FAX CENTER JUN 22 2007	
		Application Number	10/603,271
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	June 24, 2003
TOTAL AMOUNT OF PAYMENT (\$) 245.00		First Named Inventor	Michael E. Shanahan
		Examiner Name	Fan S. Tsang
		Art Unit	2614
		Attorney Docket No.	MES/002 CON III

METHOD OF PAYMENT (check all that apply)

Check
 Credit Card
 Money Order
 None
 Other (please identify): _____

Deposit Account
 Deposit Account Number: _____
 Deposit Account Name: _____

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

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FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

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 (\$)
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Total Claims - 20 or HP = _____ x _____ = _____
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Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fees Paid (\$)
_____	_____	_____	_____	_____

4. OTHER FEE(S)

Description	Fees Paid (\$)
Non-English Specification. \$130 fee (no small entity discount)	_____
Other (e.g., late filing surcharge): Pursuant to 37 CFR § 1.17 (p) Terminal Disclaimer CFR 1.821 and 1.27	245.00

SUBMITTED BY

Signature	Registration No. (Attorney/Agent) 45,786	Telephone 201-831-0575
Name (Print/Type) Scott H. Kaliko, Esq.		Date June 22, 2007

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,271	06/24/2003	Michael E. Shanahan	MES002CONIII	4493

39550 7590 06/13/2007
KALIKO & YEAGER, L.L.C.
500 NORTH FRANKLIN TURNPIKE
RAMSEY, NJ 07446

EXAMINER

TIEU, BINH KIEN

ART UNIT	PAPER NUMBER
2614	

MAIL DATE	DELIVERY MODE
06/13/2007	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.

Office Action Summary

Application No. 10/603,271	Applicant(s) SHANAHAN	
Examiner BINH K. TIEU	Art Unit 2614	

-- 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 3 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 29 August 2003.
- 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) 2-31 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) 2-31 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 _____ 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 See Continuation Sheet.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

Continuation of Attachment(s) 3. Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :8/15/06&5/19/05&8/3/06&9/2/03&6/24/03.

DETAILED ACTION

Response to Preliminary Amendment

1. The Applicant's preliminary amendment filed August 29, 2003 was received and entered. As the results, the original claim 1 was cancelled and new claims 2-31 were entered. At this point, claims 2-31 are pending in this Application.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 2-31 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-81 of U.S. Patent No. 7,149,509. Although the conflicting claims are not identical, they are not patentably distinct from each other because a system and a method of the patented claims 1-81 for downloading the selected *video* files from

Art Unit: 2614

internet into a wireless telephone can be obviously modified to download selected *audio* files from the internet, recited in the pending claims 2-31.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh K. Tieu whose telephone number is (571) 272-7510 and E-mail address: BINH.TIEU@USPTO.GOV.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (571) 272-7499 and **IF PAPER HAS BEEN MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL CUSTOMER SERVICE FOR THE SUBSTITUTIONS OR COPIES.**

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

(571) 273-8300

Hand Carry Deliveries to:

Customer Service Window
(Randolph Building)
401 Dulany Street
Alexandria, VA 22314

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).

/BINH K. TIEU/
Primary Examiner
Technology Division 2614

Date: June 2007

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AUG 15 2006

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/603,271
		Filing Date	June 24, 2003
		First Named Inventor	Michael E. Shanahan
		Art Unit	2614
		Examiner Name	Fan S. Tsang, TIEU
Sheet 1 of 1	Attorney Docket Number	MES/002 CON III	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	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* ² (if known)	MM-DD-YYYY		
BKT		US- 6,845,398	01-18-2005	Gafensky et al.	
BKT		US- 6,829,618	12-07-2004	Abraham et al.	
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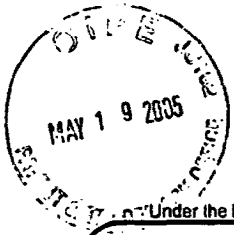
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	*§
		Country Code* ³ Number* ⁴ Kind Code* ⁵ (if known)	MM-DD-YYYY			

Examiner Signature	<i>[Signature]</i>	Date Considered	06-09-2007
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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. †Applicant's unique citation designation number (optional). ‡ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). † For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ‡ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. § Applicant is to place a check mark here if English language translation is attached.

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Substitute for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>	Complete if Known												
Sheet 1 of 1	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>10/603,271</td></tr> <tr><td>Filing Date</td><td>June 24, 2003</td></tr> <tr><td>First Named Inventor</td><td>Michael E. Shanahan</td></tr> <tr><td>Art Unit</td><td>2642 2814</td></tr> <tr><td>Examiner Name</td><td>Abmad Matar TIEU</td></tr> <tr><td>Attorney Docket Number</td><td>MES-002-con3</td></tr> </table>	Application Number	10/603,271	Filing Date	June 24, 2003	First Named Inventor	Michael E. Shanahan	Art Unit	2642 2814	Examiner Name	Abmad Matar TIEU	Attorney Docket Number	MES-002-con3
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Art Unit	2642 2814												
Examiner Name	Abmad Matar TIEU												
Attorney Docket Number	MES-002-con3												

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
BILT		US- 5,694,455	12-02-1997	GOODMAN	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
BILT		WO-98/11487	03-19-1998	AUDIBLE, INC.		

Examiner Signature: <i>[Signature]</i>	Date Considered:	JUNE 09, 2007
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*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. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	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 ² (if known)	MM-DD-YYYY		
BKI	US-	5,694,455	12-02-1997	Goodman	
BKI	US-	6,928,468	08-09-2005	Leermakers	
BKI	US-	6,477,580	11-05-2002	Bowman-Amulah	
BKI	US-	6,198,941	03-06-2001	Aho et al.	
BKI	US-	6,014,569	01-11-2000	Botum	
BKI	US-	5,963,877	10-5-1999	Kobayashi	
BKI	US-	6,385,305	05-07-2002	Gerszberg et al.	
BKI	US-	2005/0054379	03-10-2005	Cao et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)	MM-DD-YYYY			
BKI		WO-98/11487	03-19-1998	Audible, Inc.		
BKI		CA Office Action	04-21-2004			
BKI		CA Office Action	12-29-2004			
BKI		CA Office Action	03-31-2005			
BKI		CA Office Action	09-28-2005			
BKI		Related cases cited in ID	Various			

Examiner Signature		Date Considered	06-09-2007
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*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. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ 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 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, comparing, 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, 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.

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
MES/002 CON II

SERIAL NO.
10/603,271



INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
Michael E. Shanahan

FILING DATE
June 24, 2003

GROUP 2614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BILF	4,866,766	09/89	Mitzlaff	379	374	
	4,868,561	09/89	Davis	340	825.44	
	5,414,444	05/95	Britz	345	156	
	5,414,751	05/95	Yamada	379	58	
	5,452,354	09/95	Kyronlahti et al.	379	375	
	5,461,666	10/95	McMahan et al.	379	67	
	5,572,571	10/96	Shirai	379	58	
	5,583,763	12/96	Atcheson et al.	364	551.01	
	5,600,712	02/97	Hanson et al.	379	142.06	
	5,606,597	02/97	Newland	379	61	
	5,612,682	03/97	DeLuca et al.	340	825	
	5,724,411	03/98	Eisdorfer et al.	379	93.23	
	5,732,216	03/98	Logan et al.	395	200	
	5,799,063	08/98	Krane	379	88.04	
	5,835,495	11/98	Ferriere	370	465	
	5,842,124	11/98	Kenagy et al.	455	418	
	5,870,683	02/99	Wells et al.	455	566	
	5,907,604	05/99	Hsu	379	142.06	
	5,933,328	08/99	Wallace et al.	361	737	
	5,940,775	08/99	Kim	455	567	
	5,948,059	09/99	Schulhof et al.	395	200	
	5,952,918	09/99	Ohayon	340	539	
	5,953,408	09/99	Blanvillain et al.	379	374	
	5,987,323	11/99	Huotari	455	433	
	6,075,998	06/00	Morishima	455	567	
	6,091,947	07/00	Sumner	455	413	
	6,140,568	10/00	Kohler	84	616	
	6,101,242	08/00	McAllister et al.	379	201.02	✓
BKT	6,122,526	09/00	Parluski et al.	455	556	

EXAMINER

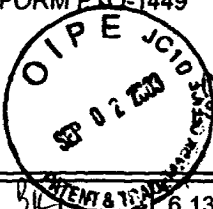
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MES/002 CON II	SERIAL NO. 10/603,271
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Michael E. Shanahan	
		FILING DATE June 24, 2003	GROUP <u>2614</u>



<i>BKT</i>	6,137,525	10/00	Lee et al.	348	14.02	
	6,138,006	10/00	Foti	455	414	
	6,219,413	02/01	Burg	370	352	
	6,222,838	04/01	Sparks et al.	370	352	
	6,226,532	05/01	Ball et al.	704	270	
	6,229,990	05/01	Toshida	455	69	
	6,243,375	06/01	Spiecher	370	352	
	6,308,086	10/01	Yoshino	455	567	
	6,389,124	05/02	Schnarel et al.	379	142.01	
↓	6,483,531	11/02	Ryu	348	14.01	↓
<i>BKT</i>	6,496,692	12/02	Shanahan	455	418	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	[REDACTED]
<i>BKT</i>	Vazvan WO 00/36857 June 2000
<i>BKT</i>	PCT Search Report PCT/US00/32920, Mar. 20, 2002
<i>BKT</i>	SGS Thompson Microelectronics ST 5092 Data Sheet pp. 1-29

EXAMINER *BINH TIEN* DATE CONSIDERED *06/09/2007*

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06/24/03

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MES/002 CON III	SERIAL NO.
	APPLICANT Michael E. Shanahan	
	FILING DATE June 24, 2003	GROUP 2614

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BKT	5,479,510	12/26/95	Olsen et al.	380	24	
	5,481,599	01/02/96	MacAllister et al	379	101	
	5,483,580	01/09/96	Brandman et al.	379	88	
	5,483,581	01/09/96	Hird et al.	379	132	
	5,485,370	01/16/96	Moss et al.	364	408	
	5,486,686	01/23/96	Zdybel, Jr. et al.	235	375	
	5,487,671	01/30/96	Shpiro et al.	434	185	
	5,490,210	02/06/96	Sasso	379	100	
	5,490,251	02/06/96	Clark et al.	395	200.2	
	5,499,288	03/12/96	Hunt et al.	379	88	
	5,510,777	04/23/96	Piic et al.	340	825.310	
	5,513,272	04/30/96	Bogosian, Jr.	382	116	
	5,517,605	05/14/96	Wolf	395	155	
	5,526,620	06/18/96	Hallsten	52	246	
	5,530,852	06/25/96	Meske, Jr. et al.	395	600	
	5,533,115	07/02/96	Hollenbach et al.	379	220	
	5,534,855	07/09/96	Shockley et al.	340	825.300	
	5,537,586	07/16/96	Amram et al.	395	600	
	5,542,046	07/30/96	Carlson et al.	395	186	
	5,544,255	08/06/96	Smithies et al.	382	119	
	5,544,322	08/06/96	Cheng et al.	395	200.12	
	5,548,726	08/20/96	Pettus	395	200.09	
	5,550,976	08/27/96	Henderson et al.	395	200.06	
	5,551,021	08/27/96	Harada et al.	395	600	
	5,598,461	01/28/97	Greenberg	379	67	
	5,608,786	03/04/97	Gordon	379	100	
	5,613,012	03/18/97	Hoffman et al	382	115	
	5,623,531	04/22/97	Nilssen	379	56	
BKT	5,661,802	08/26/97	Nilssen	380	20	

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DATE CONSIDERED 06/09/2007

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Michael E. Shanahan	
		FILING DATE June 24, 2003	GROUP <u>2614</u>

<u>BKT</u>	5,687,227	11/11/97	Cohrs et al.	379	374		
	5,689,825	11/18/97	Averbuch et al.	455	89		
	5,727,047	03/10/98	Bentley et al.	379	93		
	5,796,728	08/18/98	Rondeau et al.	370	338		
	5,828,956	10/27/98	Shirai	455	411		
	5,884,262	03/16/99	Wise et al.	704	270		
	5,915,001	06/22/99	Uppaluru	379	88.22		
	5,926,756	07/20/99	Piosenka et al.	455	418		
	5,930,703	07/27/99	Cairns	455	418		
	5,940,752	08/17/99	Henrick	455	419		
	5,953,638	09/14/99	Flood et al.	455	31.2		
	5,999,094	12/07/99	Nilssen	340	507		
	5,999,599	12/07/99	Schaffer et al.	379	93.23		
	6,002,761	12/14/99	Sremac	379	374		
	6,018,654	01/25/00	Valentine et al.	455	414		
	6,018,656	01/25/00	Shirai	455	422		
	6,035,018	03/07/00	Kaufman	379	88.17		
	6,035,189	03/07/00	Ali-Vehmas et al.	455	414		
	6,058,161	05/02/00	Anderson et al.	379	27		
	6,073,003	06/06/00	Nilsenn	455	402		
	6,088,730	07/11/00	Kato et al.	709	227		
	6,094,587	07/25/00	Armanto et al.	455	567		
	6,144,722	11/07/00	Anderson et al.	379	27		
	6,167,130	12/26/00	Rosen	379	355		
	6,167,278	12/26/00	Nilssen	455	462		
	6,179,682	01/30/01	Plain et al.	446	141		
✓	6,256,378	07/03/01	Igguiden et al.	379	102.3		✓
<u>BKT</u>	6,366,791	04/02/02	Lin et al.	455	567		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
<u>BKT</u>	PCT Written Opinion

EXAMINER Binh Tieu DATE CONSIDERED 06/09/2007

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Notice of References Cited	Application/Control No. 10/603,271	Applicant(s)/Patent Under Reexamination SHANAHAN	
	Examiner BINH K. TIEU	Art Unit 2614	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,449,359	09-2002	Luzzatto et al.	379/373.01
*	B	US-6,718,021	04-2004	Crockett et al.	379/93.23
*	C	US-7,065,342	06-2006	Rolf, Devon A.	455/412.1
*	D	US-6,501,967	12-2002	Makela et al.	455/567
*	E	US-6,603,985	08-2003	Ichihashi, Tamami	455/567
*	F	US-7,013,006	03-2006	Tischer, Steven N.	379/373.02
*	G	US-7,020,497	03-2006	Deeds, Douglas	455/567
*	H	US-7,031,453	04-2006	Busardo, Philip J.	379/373.02
*	I	US-7,035,675	04-2006	Yamada, Tsutomu	455/567
*	J	US-7,113,981	09-2006	Slate, Michael L.	709/217
*	K	US-7,119,368	10-2006	Park et al.	257/59
*	L	US-7,161,081	01-2007	Futamase et al.	84/622
*	M	US-7,203,523	04-2007	Ito, Shuhei	455/567

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

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	X	

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	Examiner BINH K. TIEU	Art Unit 2614	Page 2 of 2

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,366,791	04-2002	Lin et al.	455/567
	B US-			
	C US-			
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
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FOREIGN PATENT DOCUMENTS

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Index of Claims



Application/Control No.

10/603,271

Examiner

BINH K. TIEU

Applicant(s)/Patent under Reexamination

SHANAHAN

Art Unit

2614

√	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
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Claim		Date	
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Search Notes



Application/Control No.

10/603,271

Examiner

BINH K. TIEU

Applicant(s)/Patent under Reexamination

SHANAHAN

Art Unit

2614

SEARCHED

Class	Subclass	Date	Examiner
455	414.1	6/9/2007	BKT
	415		
	502, 557		
	566-567		
	418-419		
379	88.13		
348	14.06		
725	1, 21		
11	46, 104		
709	219		

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
WEST DATABASES SEARCH	6/9/2007	BKT

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

Freeform Search

Database: US Pre-Grant Publication Full-Text Database
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 EPO Abstracts Database
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 IBM Technical Disclosure Bulletins

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<u>L4</u>	6366791	32	<u>L4</u>
<u>L3</u>	379/373.04.ccls.	26	<u>L3</u>
<u>L2</u>	6845398	13	<u>L2</u>
<u>L1</u>	6829618	3	<u>L1</u>

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/803,271	RECEIVED CENTRAL FAX CENTER AUG 15 2006
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2814	
	Examiner Name	Fan S. Tsang	
Total Number of Pages in This Submission	50	Attorney Docket Number	MES/002 CON III

ENCLOSURES (Check all that apply)		
<input 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
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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	<input type="checkbox"/> Status Letter
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<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks 1. Supplemental IDS; and 2. PTO Form 1449; and 3. Copies of References.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager		
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Printed name	Scott H. Kaliko, Esq.		
Date	August 15, 2006	Reg. No.	45,786

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael E. Shanahan

Serial No. : 10/603,271 Confirmation No.: 4493

Filed : June 24, 2003

Title : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC
DEVICES.

Examiner : Fan S. Tsang

Group Art Unit : 2614

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22213-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant hereby makes the documents listed below of record in the above-identified application.

U.S. Patents

Abraham et al.	Patent No. 6,829,618	December, 2004
Galensky et al.	Patent No. 6,845,398	January, 2005

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O/SB/08A (07-05)
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
	Application Number	10/603,271	
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2614	
	Examiner Name	Fan S. Tsang	
	Attorney Docket Number	MES/002 CON III	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
	US-	6,845,398	01-18-2005	Gafensky et al.	
	US-	6,829,618	12-07-2004	Abraham et al.	
	US-				
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	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 ⁶
		Country Code ³ Number * Kind Code ⁴ (if known)				

Examiner Signature	Date Considered
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TO:	FROM:
Commissioner for Patents	Scott H. Kaliko, Esq.
	SENDER'S FAX NUMBER:
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COMPANY:	DATE:
United States Patent & Trademark Office	AUGUST 15, 2006
RECIPIENT'S FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
571-273-8300	50
RECIPIENT'S TELEPHONE NUMBER:	CLIENT / MATTER:
RE:	YOUR REFERENCE NUMBER:
Application No. 10/603,271	MES/002 CON III

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NOTES/COMMENTS:

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1. Transmittal Form/Certificate of Transmission; and
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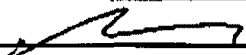
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/603,271	RECEIVED CENTRAL FAX CENTER AUG 15 2006
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2614	
	Examiner Name	Fan S. Tsang	
	Attorney Docket Number	ME8/002 CON III	
Total Number of Pages in This Submission		44	

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks 1. Supplemental IDS; and 2. PTO Form 1449; and 3. Copies of References.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager		
Signature			
Printed name	Scott H. Kaliko, Esq.		
Date	August 15, 2006	Reg. No.	45,788

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Signature	
Typed or printed name	Scott H. Kaliko, Esq.
Date	August 15, 2006

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Examiner : Fan S. Tsang

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AUG 15 2006

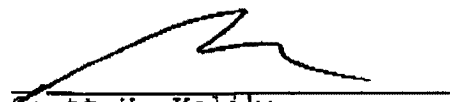
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MES/002 CON III

It is respectfully requested the Examiner fully consider these and any associated documents during the examination of this application, make them of record, and indicate his or her consideration of the documents by initialing the enclosed Citation List adjacent the citation of each document, and print them on any patent that may issue on this application. It is requested that a copy of the initialed Citation form be returned to applicant's undersigned Attorney. Citing of references herein shall not be deemed an admission that such references are prior art. Copies of the cited references are transmitted herewith.

Included is a USPTO Credit Card payment form which authorizes charges for \$180.00 in payment of IDS fee pursuant to 37 C.F.R. § 1.17 (p) and § 1.97(c)(2).

Respectfully submitted,


Date



Scott H. Kaliko
Attorney for Applicant
Registration No. 45,786
KALIKO & YEAGER, L.L.C.
500 North Franklin Turnpike
Ramsey, NJ 07446
Direct: 201-831-0575
Fax: 201-831-0519

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PTO/SB/08A (07-06)
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete If Known	
	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Art Unit	2614
	Examiner Name	Fan S. Tsang
	Attorney Docket Number	MES/002 CON III

Sheet 1 of 1

Examiner Initials*	Cite No. ¹	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 ² (if known)	MM-DD-YYYY		
		US- 6,845,398	01-18-2005	Gaiensky et al.	
		US- 6,829,618	12-07-2004	Abraham et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
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Commissioner for Patents	Scott H. Kaliko, Esq.
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	SENDER'S TELEPHONE NUMBER:
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COMPANY:	DATE:
United States Patent & Trademark Office	AUGUST 3, 2006
RECIPIENT'S FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
571-273-8300	16
RECIPIENT'S TELEPHONE NUMBER:	CLIENT / MATTER:
RE:	YOUR REFERENCE NUMBER:
Application No. 10/603,271	MES/002 CON III

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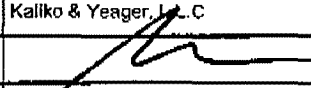
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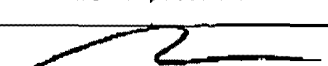
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	Examiner Name	Fan S. Tsang	
Total Number of Pages in This Submission	15	Attorney Docket Number	MES/002 CON III

ENCLOSURES (Check all that apply)		
<input 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	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks 1. PTO Form 1449.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager, L.L.C.		
Signature			
Printed name	Scott H. Kaliko, Esq.		
Date	August 3, 2006	Reg. No.	45,786

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Signature			
Typed or printed name	Scott H. Kaliko, Esq.	Date	August 3, 2006

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PATENT
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Leersmakers	Patent No. 6,928,468	August, 2005
Bowman-Amulah	Patent No. 6,477,580	November, 2002
Aho et al.	Patent No. 6,198,941	March, 2001

PATENT
MES/002 CON III

Bottum	Patent No. 6,014,569	January, 2000
Kobayashi	Patent No. 5,963,877	October, 1999
Gerszberg et al.	Patent No. 6,385,305	May, 2002
Cao et al.	US-2005/0054379 A1	March, 2005

FOREIGN PATENT DOCUMENT

Audible, Inc.	Patent No. WO-98/11487	March, 1998
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FOREIGN OFFICE ACTIONS

Canadian Office Action dated April 21, 2004 (Copy included)
Canadian Office Action dated December 19, 2004 (Copy included)
Canadian Office Action dated March 31, 2005 (Copy included)
Canadian Office Action dated September 28, 2005 (Copy included)

RELATED CASES

Applicant draws the Examiner's attention to the following related cases that share a common specification with this case.


U.S. Patent No. 6,496,692
U.S. Patent Application No. 09/518,846 (Abandoned)
U.S. Patent Application No. 10/223,200
U.S. Patent Application No. 10/600,975
U.S. Patent Application No. 10/603,285
U.S. Patent Application No. 10/915,862
U.S. Patent Application No. 10/915,866

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Respectfully submitted,

8/3/06
Date



Scott H. Kaliko
Attorney for Applicant
Registration No. 45,786
KALIKO & YEAGER, L.L.C.
500 North Franklin Turnpike
Rensley, NJ 07446
Direct: 201-831-0575
Fax: 201-831-0519

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Sheet 1 of 1

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY		
		US- 5,694,455	12-02-1997	Goodman	
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		US- 6,477,580	11-05-2002	Bowman-Amulah	
		US- 6,198,941	03-06-2001	Aho et al.	
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		US- 5,963,877	10-5-1999	Kobayashi	
		US- 6,385,305	05-07-2002	Gerszberg et al.	
		US- 2005/0054379	03-10-2005	Cao et al.	
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		Foreign Patent Document Country Code ⁴ Number ¹ Kind Code ² (if known)	Publication Date MM-DD-YYYY			
		WO-98/11487	03-19-1998	Audible, Inc.		
		CA Office Action	04-21-2004			
		CA Office Action	12-29-2004			
		CA Office Action	03-31-2005			
		CA Office Action	09-28-2005			
		Related cases cited in ID	Various			

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*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. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ 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 37 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, 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.

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APR - 5 2006

April 21, 2004

SMART & BIGGAR
P.O. Box 2999
Station D
OTTAWA Ontario
K1P 5Y6

Application No. : 2,436,872
 Owner : SHANAHAN, MICHAEL E.
 Title : METHODS AND APPARATUSES FOR PROGRAMMING
 USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
 Classification : H04M-1/247
 Your File No. : 50320-1
 Examiner : S.Chhim

YOU ARE HEREBY NOTIFIED OF A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE PATENT RULES. IN ORDER TO AVOID ABANDONMENT UNDER PARAGRAPH 73(1)(A) OF THE PATENT ACT, A WRITTEN REPLY MUST BE RECEIVED WITHIN 6 MONTHS AFTER THE ABOVE DATE.

This application has been examined taking into account the:

- Description, as originally filed;
- Claims, as originally filed;
- Drawings, as originally filed.

This application has been examined taking into account applicant's correspondence received in this office on January 22, 2004.

The number of claims in this application is 239.

The examiner has identified the following defects in the application:

The claims are directed to the following categories of subject matter:

- Group A - Claims 1-182 are directed to a wireless telephone;
- Group B - Claims 183-200 are directed to a system for providing a video file;
- Group C - Claims 201-209 and 230-239 are directed to an Internet site; and

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2,436,872

- 2 -

Group D - 210-229 are directed to a system for providing a polyphonic audio file.

The claims must be limited to one invention only as set out in Section 36 of the *Patent Act*.

Please note that the definition of when an application does not claim more than one invention found in Section 36 of the *Patent Act*, is not different from or additional to PCT Rule 13.1. Therefore the requirements under section 36 of the *Patent Act* are compliant with Article 27(1) of the PCT.

A search of the prior art has revealed the following:

Reference Applied:

European Patent Office Application

851,649

July 1, 1998

H04M-1/72

Armanto et al.

Armanto et al. disclose a programming of a telephone's ringing tone.

Claims 10, 44, 106, 141 and 159 do not comply with Section 28.3 of the *Patent Act*. The subject matter of these claims would have been obvious on the claim date to a person skilled in the art or science to which they pertain having regard to Armanto et al..

These claims are obvious, because Armanto et al. teaches a method, wherein a ringing tone is stored in a memory and reproduced by means of sound reproduction means as a response to an incoming call, characterised in that the ringing tone is modified into characters and sent to the telephone as characters with a ringing tone identifier. The features defined in the above claims are similar to those claimed in the Armanto et al.'s reference, namely the step of providing the user-defined audio file, and the step of enabling a user to program a portion of the audio file into the telephone.

Therefore, these claims do not comply with Section 28.3 of the *Patent Act*.

Claims 201-209 and 230-239 are directed to non-statutory subject matter, and are outside the definition of invention in Section 2 of the *Patent Act*, because they claim an Internet site using obviously a program software. A database of video or audio files is not a feature of an apparatus claim.

Claims 2, 12, 64, 107, 117, 128, 161 and 207 are ambiguous and do not comply with Subsection 27(4) of the *Patent Act*. The words "MPEG, MP3, WAV, PCM, MDI, JPEG, DVD, AVI and GIF" should be fully spelled, and not in their abbreviated forms, when using in these dependent and independent claims.

The subject matter of this application is outside the definition of invention in Section 2 of the *Patent Act*, because it is merely directed to a scheme of using a program software.

2,436,672

- 3 -

In accordance with Subsection 81(2) of the Patent Rules, all documents referred to in the description of an application must be available to the public. Reference to the document on page 1, line 8 must be deleted or replaced by its corresponding patent or publication number.

Applicant is requested to replace the present drawings by formal drawings.

In view of the foregoing defects, the applicant is requisitioned, under Subsection 30(2) of the Patent Rules, to amend the application in order to comply with the Patent Act and the Patent Rules or to provide arguments as to why the application does comply.

Under Section 29 of the Patent Rules, applicant is requisitioned to provide an identification of any prior art cited in respect of the United States and European Patent Office applications describing the same invention on behalf of the applicant, or on behalf of any other person claiming under an inventor named in the present application, and the patent numbers, if granted. Amendment to avoid references cited abroad may expedite the prosecution. In accordance with Subsection 29(3) of the Patent Rules, if the particulars are not available to the applicant, the reason why must be stated.

S.Chhim
Patent Examiner
(819) 997-2238

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APR - 5 2006

December 29, 2004

SMART & BIGGAR
P.O. Box 2999
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OTTAWA Ontario
K1P 5Y6

2005 JAN -5 A 8:07

STREET

Application No.	:	2,436,872
Owner	:	TWENTY YEAR INNOVATIONS, INC.
Title	:	METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
Classification	:	H04M-1/247
Your File No.	:	50320-1
Examiner	:	S.Chhim

YOU ARE HEREBY NOTIFIED OF :

- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE PATENT RULES,
- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SECTION 29 OF THE PATENT RULES.

IN ORDER TO AVOID MULTIPLE ABANDONMENTS UNDER PARAGRAPH 73(1)(A) OF THE PATENT ACT, A WRITTEN REPLY TO EACH REQUISITION MUST BE RECEIVED WITHIN 6 MONTHS AFTER THE ABOVE DATE.

This application has been examined taking into account applicant's correspondence received in this office on October 21, 2004.

The number of claims in this application is 171.

The examiner has identified the following defects in the application:

The claims are directed to a plurality of alleged inventions as follows:

- Group A - Claims 1-50 and 53-84 are directed to a telephone having means for optionally reviewing the selected audio file;
- Group B - Claims 51-52 are directed to a telephone having means for preventing the authorized distribution of a selected audio file;
- Group C - Claims 85-147 and 150-171 are directed to a telephone having means for browsing video files; and
- Group D - Claims 148-149 are directed to a telephone having means for preventing the unauthorized distribution of a selected video file.

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2,436,872

- 2 -

The claims must be limited to one invention only as set out in section 36 of the *Patent Act*.

In view of the above, a search of the prior art has been limited to the subject matter in claims 1-50 and 53-84.

A search of the prior art has thus far failed to reveal any pertinent references.

Claims of the corresponding issued United States patent No. 6,496,692 do not have the same scope of claims 1-50 and 53-84 in this Canadian application.

In view of the foregoing defects, the applicant is requisitioned, under subsection 30(2) of the *Patent Rules*, to amend the application in order to comply with the *Patent Act* and the *Patent Rules* or to provide arguments as to why the application does comply.

Under subsection 29(1) of the *Patent Rules*, the applicant is requisitioned to provide an identification of any prior art cited in respect of the United States Patent and Trademark Office, and European Patent Office applications describing the same invention on behalf of the applicant or on behalf of any other person claiming under an inventor named in the present application, and the patent numbers, if granted. Amendment to avoid references cited abroad may expedite the prosecution. In accordance with subsection 29(3) of the *Patent Rules*, if the particulars are not available to the applicant, the reason must be stated.

S.Chhim
Patent Examiner
(819) 997-2238

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March 31, 2005

SMART & BIGGAR
P.O. Box 2999
Station D
OTTAWA Ontario
K1P 5Y6

Application No. : **2,492,727**
Owner : TWENTY YEAR INNOVATIONS, INC.
Title : **METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES**
Classification : H04M-3/42
Your File No. : **51170-1D**
Examiner : Kristy Hyam

YOU ARE HEREBY NOTIFIED OF :

- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE *PATENT RULES*;
- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SECTION 29 OF THE *PATENT RULES*.

IN ORDER TO AVOID MULTIPLE ABANDONMENTS UNDER PARAGRAPH 73(1)(A) OF THE *PATENT ACT*, A WRITTEN REPLY TO EACH REQUISITION MUST BE RECEIVED WITHIN 6 MONTHS AFTER THE ABOVE DATE.

This application has been examined as originally filed.

The number of claims in this application is 57.

The examiner has identified the following defects in the application:

The search of the prior art has revealed the following:

References Applied:

<u>PCT Application</u>			
98/11487	Mar. 19, 1998	G06F 13/00	Katz et al.
<u>United States Patent</u>			
5,694,455	Dec. 2, 1997	H04M 11/00	Goodman

Katz et al. disclose a method and system of downloading digital information to a mobile digital information playback device.



2,492,727

- 2 -

Goodman discloses a method and system for allowing a mobile user to select and download audio programs.

Obviousness

Claims 1-57 do not comply with section 28.3 of the *Patent Act*. The subject matter of claims 1-27 would have been obvious on the claim date to a person skilled in the art or science to which they pertain having regard to Katz et al., and the subject matter of claims 28-57 would have been obvious on the claim date to a person skilled in the art or science to which they pertain having regard to Katz et al. or Goodman.

Katz et al. discloses a system for providing digital information to a mobile device. This digital information can be either video or audio information. The user can browse the digital information available on a library server and select what to download. Authentication and encryption are provided to prevent the unauthorized downloading and copying of protected works. Goodman discloses a method and system specifically for downloading audio files to a mobile user terminal, as in claims 28-57. Thus, claims 1-57 are therefore obvious in view of the applied references.

Lack of Support

Claims 19-27 and 48-57 do not comply with section 84 of the *Patent Rules* because there is no support in the present description for the subject matter of these claims. Specifically, an Internet site with all of the claimed functionality is not present in the present description.

Claims 1-57 do not comply with section 84 of the *Patent Rules*. The description indicates on page 3, lines 7-28 and page 5, line 8 to page 6, line 3 that the communication links between the programmer, the source, and the device materially affects the way the invention works, and is therefore essential. In order to provide support for the utility as disclosed in the description, this feature has to be incorporated in these claims.

Description Informalities

On page 7, line 22, the term "processor 40" should be changed to either "processor 34" or "SPC 40".

In view of the foregoing defects, the applicant is requisitioned, under subsection 30(2) of the *Patent Rules*, to amend the application in order to comply with the *Patent Act* and the *Patent Rules* or to provide arguments as to why the application does comply.

2.492,727

- 3 -

Under subsection 29(1) of the *Patent Rules*, the applicant is requisitioned to provide an identification of any prior art cited in respect of the United States Patent and Trademark Office application describing the same invention on behalf of the applicant or on behalf of any other person claiming under an inventor named in the present application, and the patent number, if granted. Amendment to avoid references cited abroad may expedite the prosecution. In accordance with subsection 29(3) of the *Patent Rules*, if the particulars are not available to the applicant, the reason must be stated.

Kristy Hyam
Patent Examiner
(819) 934-2673
200212/Alch

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September 28, 2005

SMART & BIGGAR
P.O. Box 2899
Station D
OTTAWA Ontario
K1P 5Y6

NOV 23 2005

Application No. : 2,436,872
Owner : TWENTY YEAR INNOVATIONS, INC.
Title : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES
Classification : H04M-1/247
Your File No. : 50320-4-51170-1
Examiner : S.Chhim

YOU ARE HEREBY NOTIFIED OF :

- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE PATENT RULES;
- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SECTION 29 OF THE PATENT RULES.

IN ORDER TO AVOID MULTIPLE ABANDONMENTS UNDER PARAGRAPH 73(1)(A) OF THE PATENT ACT, A WRITTEN REPLY TO EACH REQUISITION MUST BE RECEIVED WITHIN 6 MONTHS AFTER THE ABOVE DATE.

This application has been examined taking into account applicant's correspondence received in this office on June 28, 2005.

The number of claims in this application is 171.

The examiner has identified the following defects in the application:

The search of the prior art has revealed the following:

Reference:Applied:

Korean Patent document

kr9902421D March 25, 1999 H04B-1/40 Jaehan

Jaehan disclose a system for restoring and playing back of digital data on wireless mobile terminal.

Claims 10,51, 94 and 130 do not comply with section 28.3 of the Patent Act. The subject matter of these claims would have been obvious on the claim date to a person skilled in the art or science to which they pertain having regard to Jaehan.



2,436,872

- 2 -

Claims 10, 51, 94 and 130 are obvious, because Jaehan teaches a system having a function of storing digital audio data encoded by MP3 or AAC into the memory and a function of decoding the data to decoded original audio signal that are added to a wireless mobile terminal, whereby, using various methods, a first method is PC interfacing method to connect with Internet, a second method is requesting method of the digital audio data encoded by MP3 or AAC via the public communication network or data network that is wire or wireless channel, and a third method is passive receiving method of the digital audio data transmitted from station, that can store the digital audio data encoded by MP3 or AAC into a memory, decoded the digital audio data stored in the memory to decoded original audio signal. The system is implemented with convenient mobile services of telephone and audio on demand (AOD) or music on demand (MOD), with a main function of the system, in using a wireless mobile terminal, by an additional function in storing and playback of the digital audio data encoded by MP3 or AAC. Features of claims 10, 51, 94 and 130 are similar to those defined in the specifications of Jaehan's reference.

Therefore, claims 10, 51, 94 and 130 do not comply with Section 28.3 of the Patent Act.

In view of the foregoing defects, the applicant is requisitioned, under subsection 30(2) of the *Patent Rules*, to amend the application in order to comply with the *Patent Act* and the *Patent Rules* or to provide arguments as to why the application does comply.

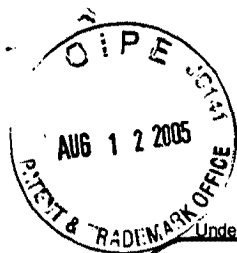
Section 29 of the Patent Rules requisition

Under section 29 of the *Patent Rules*, the applicant is requisitioned to provide:

- Identification of any prior art cited in respect of the European Patent Office application describing the same invention on behalf of the applicant or on behalf of any other person claiming under an inventor named in the present application, and the patent number, if granted, subsequent to the International Search Report under paragraph 29(1)(a) of the *Patent Rules*.

To satisfy this requisition, applicant should provide all the preceding information or documents, or provide in accordance with subsection 29(3) of the *Patent Rules* a statement of reasons why any information or document is not available or known.

S.Chhim
Patent Examiner
(819) 997-2238



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<p align="center">CHANGE OF CORRESPONDENCE ADDRESS</p> <p align="center"><i>Patent</i></p> <p>Address to: Mail Stop Post Issue Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</p>	Patent Number	
	Issue Date	
	Application Number	10/603,271
	Filing Date	June 24, 2003
	First Named Inventor	Michael E. Shanahan
	Attorney Docket Number	MES-002 CON III

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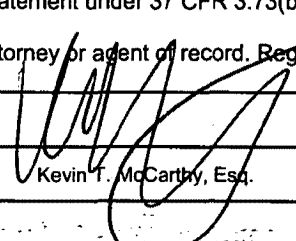
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I am the:

Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

Attorney or agent of record. Registration Number _____

Signature 

Typed or Printed Name Kevin T. McCarthy, Esq.

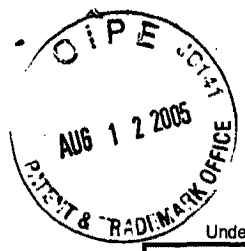
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NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below".

*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 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: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Twenty Year Innovations, Inc.

Application No./Patent No.: 10/603,271 Filed/Issue Date: June 24, 2003

Entitled: METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

Twenty Year Innovations, Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. the assignee of the entire right, title, and interest; or
- 2. an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

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 015027, Frame 0049, or for which a copy thereof is attached.

OR

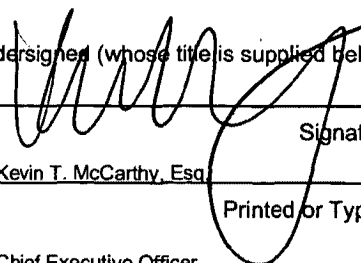
B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

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The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- 2. 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.
- 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.

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

Copies of assignments or other documents in the chain of title are attached.
[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, if the assignment is to be recorded 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.



 Signature

 Date

 Printed or Typed Name

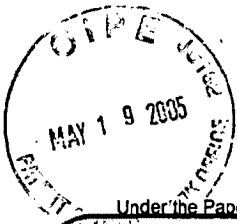
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 Chief Executive Officer

 Title

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.

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/603,271	
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2642	
	Examiner Name	Ahmad Matar	
Total Number of Pages in This Submission	45	Attorney Docket Number	MES-002-con3

ENCLOSURES (Check all that apply)		
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Kaliko & Yeager, L.L.C.		
Signature	<i>Todd W. Evans</i>		
Printed name	Todd W. Evans		
Date	May 17, 2005	Reg. No.	44,101

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Typed or printed name	Todd W. Evans	Date	May 17, 2005

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PATENTS
Attorney Docket No. MES-002-con3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael E. Shanahan
Application No.: 10/603,271
Title of Invention: Methods and Apparatuses for Programming User-Defined Information into Electronic Devices
Filed: June 24, 2003
Art Unit: 2642
Examiner: Ahmad Matar

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

STATEMENT PURSUANT TO 37 C.F.R. § 1.97 (e)(1)

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Dated: 5/17/05

Todd W. Evans, Esq.
Reg. No. 44,101
Kaliko & Yeager, L.L.C.
Attorneys for Applicant

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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US- 5,694,455	12-02-1997	GOODMAN	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	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 ⁶
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		WO-98/11487	03-19-1998	AUDIBLE, INC.		

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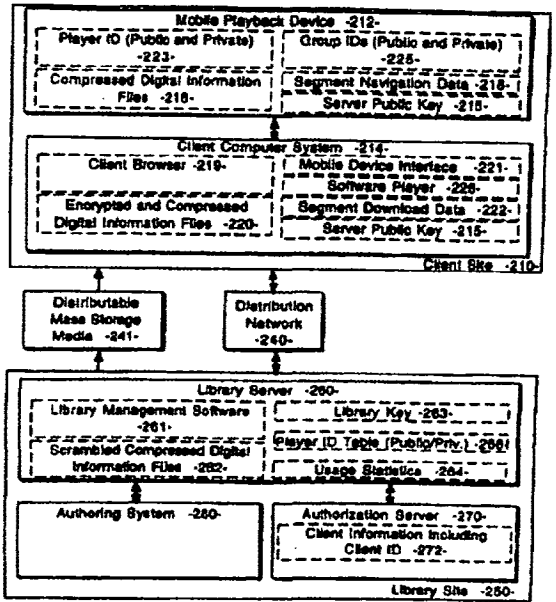
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<p>(21) International Application Number: PCT/US97/16184 (22) International Filing Date: 12 September 1997 (12.09.97) (30) Priority Data: 08/710,114 12 September 1996 (12.09.96) US (71) Applicant: AUDIBLE, INC. [US/US]; 65 Willowbrook Boulevard, Wayne, NJ 07470 (US). (72) Inventors: KATZ, Donald, R.; 4 Russell Terrace, Montclair, NJ 07042 (US). LAU, Edwin, J.; 1266 Shasta Avenue, San Jose, CA 95126 (US). MOTT, Timothy; 110 Old Mill Road, P.O. Box 6289, Ketchum, ID 83340 (US). BRENNEMAN, Scott, A.; 299 Waverly Street, Menlo Park, CA 94025 (US). CHE-MING JUN, Benjamin; 1081-B Tanland Drive, Palo Alto, CA 94303 (US). HONG-YEN PAI, Samuel; 340 Marmona Drive, Menlo Park, CA 94025 (US). (74) Agents: SALTER, James, H. et al.; Blakely, Sokoloff, Taylor & Zafman LLP, 7th floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025 (US).</p>		<p>(81) Designated States: AL, AM, AT, AT (Utility model), AU (Petty patent), AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>

(54) Title: A DIGITAL INFORMATION LIBRARY AND DELIVERY SYSTEM

(57) Abstract

A computer network based digital information library system employing authentication and encryption protocols for the secure transfer of digital information library programs to a client computer system (214) and a mobile digital information playback device (212) removably connectable to the client computer system. The present invention is a computer network based library and information delivery system for accessing and obtaining selected digital information files. The library and information delivery system comprises: 1) a library server (260) having a plurality of digital information files; 2) a client computer system (214) coupled to the library server (260) over a network (240); and 3) a mobile device (212) removably connectable to the client computer system (214), the client computer system (214) including logic for requesting a download of a selected one or more of the digital information files from the library server (260), the client computer system (214) further including logic for downloading the selected one or more of the digital information files to the mobile device (212).



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**A DIGITAL INFORMATION LIBRARY
AND DELIVERY SYSTEM**

FIELD OF THE INVENTION

The present invention relates generally to a digital information transmission, receiving, and playback system. Specifically, the present invention pertains to a computer network based digital information library providing interactive client computer access.

DESCRIPTION OF RELATED ART

Recent technological advances in the compression of digital data and the expansion of storage capacities of computer systems together with the increased bandwidth of computer network infrastructures have created new possibilities for personalized access to and usage of large amounts of digital information. One form of this type of digital information is audio information delivered across a computer network as digitized information.

In the field of interactive digital information transmission, receiving, and playback systems, several patents are known to the present applicants. U.S. Patent No. 5,132,992, issued July 21, 1992 to Yurt et al. (Yurt), describes a system of distributing video and/or audio information employing digital signal processing to achieve high rates of data compression. The Yurt patent describes a transmission system including a conversion means for placing the items from a source material library into a predetermined format as formatted data. Audio data is compressed by an audio compressor by application of an adaptive differential pulse code modulation (ADPCM) process to the audio data. Stored items are accessed in the compressed data library through the use of a unique address code assigned to each item during storage encoding. The unique address code is used for requesting and accessing information and items throughout the Yurt transmission and receiving process. The Yurt transmission system includes means by which a user enters a customer identifier (ID) code by which the system accesses the users account, and indicates to the system that the user is a subscriber of the system. If a subscriber is in good standing, the Yurt system delivers selected titles using the described techniques.

One significant problem with the audio transmission and receiving system described in Yurt is the lack of an effective means for ensuring the security of the digital information library and of the items downloaded to a user from the digital information library. Although Yurt describes the use of a unique identification code assigned to items in the library and a customer ID code assigned to particular users, no authentication protocols or encryption techniques are described to prevent the unauthorized creation of clone libraries or the unauthorized download or copying of library items. Secondly, Yurt and related prior art does not describe an authentication or encryption means providing secure transactions between a server based digital information

library supporting a client computer system having an interface to a mobile playback device. Thirdly, the prior art does not describe a mechanism for selecting a digital information passage to be previewed. Prior art systems also do not describe a system whereby only part of a program gets downloaded from a client computer system to a mobile playback device depending on how much storage space is available in the mobile playback device. Prior art systems also do not describe a mechanism for specifying multiple programs to be downloaded from a digital information library into a mobile playback device. Prior art systems also do not detail the processes required in the authoring system to generate content for the digital information library. Finally, prior art systems do not describe an accounting system whereby library content providers can perform real-time queries on usage information related to the access of library items.

SUMMARY OF THE INVENTION

The preferred embodiment of the present invention is a computer network based digital information library system employing authentication, targeting, and encryption protocols for the secure transfer of digital information library programs to a client computer system and a mobile digital information playback device removably connectable to the client computer system. The present invention is a computer network based library and information delivery system for accessing and obtaining selected digital information files. The library and information delivery system comprises: 1) a library server having a plurality of digital information files; 2) a client computer system coupled to the library server over a network; and 3) a mobile device removably connectable to the client computer system, the client computer system including logic for requesting a download of a selected one or more of the digital information files from the library server, the client computer system further including logic for downloading the selected one or more of the digital information files to the mobile device.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are included as part of the present specification, illustrate the presently preferred embodiment of the present invention and together with the general description given above and the detailed description of the preferred embodiment given below serve to explain and teach the principles of the present invention.

Figure 1 illustrates a typical computer platform on which the present invention may be implemented.

Figure 2 illustrates a high level block diagram of the computer network based digital information library system of the present invention.

Figure 3 illustrates a high level block diagram of the authoring system of the present invention.

Figure 4 illustrates an alternative embodiment having a plurality of library servers.

Figure 5 illustrates an alternative embodiment having a plurality of library server processes.

Figure 6 illustrates an alternative embodiment having a single authoring/authorization server.

Figure 7 illustrates an alternative embodiment wherein client computer systems have a local library.

Figure 8 illustrates an alternative embodiment wherein mobile playback devices have a direct network interface in lieu of a client computer system.

Figure 9 illustrates an alternative embodiment wherein a kiosk is used to retain and distribute selected programming.

Figure 10 illustrates an alternative embodiment wherein all system components are connected through a common network.

DETAILED DESCRIPTION OF
THE PREFERRED EMBODIMENT

The preferred embodiment of the present invention is a computer network based digital information library system employing authentication, targeting, and encryption protocols for the secure transfer of digital information library programs to a client computer system and a mobile digital information playback device removably connectable to the client computer system. In the following detailed description, numerous specific details are set forth in order to provide a thorough understanding of the present invention. However, it will be apparent to one of ordinary skill in the art that these specific details need not be used to practice the present invention. In other instances, well known structures, interfaces, and processes have not been shown in detail in order not to unnecessarily obscure the present invention.

Figure 1 illustrates a typical data processing system upon which one embodiment of the present invention is implemented. It will be apparent to those of ordinary skill in the art, however that other alternative systems of various system architectures may also be used. The data processing system illustrated in Figure 1 includes a bus or other internal communication means 101 for communicating information, and a processor 102 coupled to the bus 101 for processing information. The system further comprises a random access memory (RAM) or other volatile storage device 104 (referred to as main memory), coupled to bus 101 for storing information and instructions to be executed by processor 102. Main memory 104 also may be used for storing temporary variables or other intermediate information during execution of instructions by processor 102. The system also comprises a read only memory (ROM) and/or static storage device 106 coupled to bus 101 for storing static information and instructions for processor 102, and a mass storage device 107 such as a magnetic disk drive or optical disk drive. Mass storage device 107 is coupled to bus 101 and is typically used with a computer readable mass storage medium 108, such as a magnetic or optical disk, for storage of information and instructions. The system may further be coupled to a display device 121, such as a cathode ray tube (CRT) or a liquid crystal display (LCD) coupled to bus 101 through bus 103 for displaying information to a computer user. An alphanumeric input device 122, including alphanumeric and other keys, may also be coupled to bus 101 through bus 103 for communicating information and command selections to processor 102. An additional user input device is cursor control 123, such as a mouse, a trackball, stylus, or cursor direction keys coupled to bus 101 through bus 103 for communicating direction information and command selections to processor 102, and for controlling cursor movement on display device 121. Another device which may optionally be coupled to bus 101 through bus 103 is a hard copy device 124 which may be used for printing instructions, data, or other information on a medium such as paper, film, or similar types of media. In the preferred embodiment, a communication device 125 is coupled to bus 101 through

bus 103 for use in accessing other nodes of a network computer system or other computer peripherals. This communication device 125 may include any of a number of commercially available networking peripheral devices such as those used for coupling to an Ethernet, token ring, Internet, or wide area network. It may also include any number of commercially available peripheral devices designed to communicate with remote computer peripherals such as scanners, terminals, specialized printers, or audio input/output devices. Communication device 125 may also include an RS232 or other conventional serial port, a conventional parallel port, a small computer system interface (SCSI) port or other data communication means. Communications device 125 may use a wireless means of data transfer devices such as the infrared IRDA protocol, spread-spectrum, or wireless LAN. In addition, communication device 125 is used in the preferred embodiment to couple the mobile playback device 212 to the client computer system 214 as described in more detail below. One other device used in the preferred embodiment is sound circuitry 130 either with attached speakers or headphones 132, or with analog audio outputs suitable for input into audio reproduction equipment such as external amplifiers and speakers, cassette adapters, etc. Sound circuitry 130 is well known in the art for playing audio files. Alternatively, sound circuitry may be a radio transmitter which transmits audio data on a predefined frequency for reception and playback by a radio receiver. Other wireless methods are possible.

Note that any or all of the components of the system illustrated in Figure 1 and associated hardware may be used in various embodiments of the present invention; however, it will be appreciated by those of ordinary skill in the art that any configuration of the system may be used for various purposes according to the particular implementation. In one embodiment of the present invention, the data processing system illustrated in Figure 1 is an IBM® compatible personal computer (PC), an Apple MacIntosh® personal computer, or a SUN® SPARC Workstation. Processor 102 may be one of the 80X86 compatible microprocessors such as the 80486 or PENTIUM® brand microprocessors manufactured by INTEL® Corporation of Santa Clara, California.

The software implementing the present invention can be stored in main memory 104, mass storage device 107, or other storage medium accessible to processor 102. It will be apparent to those of ordinary skill in the art that the methods and processes described herein can be implemented as software stored in main memory 104 or read only memory 106 and executed by processor 102. This software may also be resident on an article of manufacture comprising a computer usable mass storage medium 108 having computer readable program code embodied therein and being readable by the mass storage device 107 and for causing the processor 102 to perform digital information library transactions and protocols in accordance with the teachings herein.

Digital Information Library System

Figure 2 illustrates the computer network architecture used in the preferred embodiment of the present invention. In general, the network architecture of the present invention includes a library site 250 coupled to a client site 210 via a conventional distribution network infrastructure 240. This conventional distribution network infrastructure 240 can be implemented as a standard telephone connection provided between the library site 250 and client site 210 through an Internet provider to enable data communication on the Internet over a conventional telephone network. This use of the Internet as a distribution network is well known to those of ordinary skill in the art. In an alternative embodiment having cable modem capability, communication over a conventional cable network is possible in lieu of communication over the telephone network. The cable network is typically much faster (i.e. provides a much greater bandwidth) than the standard telephone network; however, cable modems are typically more expensive than standard POTS (plain old telephone system) modems. In another alternative embodiment having conventional Integrated Services Digital Network (ISDN) capability, the distribution network 240 is accessed using an ISDN modem. Again, the ISDN network is typically faster than the POTS network; however, access to an ISDN network is generally more expensive. Cable modems and ISDN implementations are alternative communications media to the POTS implementation.

In addition, it will be apparent to those of ordinary skill in the art that other forms of networking may equivalently be supported by the present invention. For example, a wireless transmission means such as infrared or radio links may also provide the distribution network 240 described in the present application. As an alternative to the Internet, a proprietary network/bulletin board such as AMERICA-ON-LINE (AOL), or COMPUSERVE may be used.

Each of the servers at library site 250 and the client computer system 214 at client site 210 can be implemented as a computer system such as the one described above in connection with Figure 1. It will be apparent to one of ordinary skill in the art that the library server 260, authoring system 280, and authorization server 270 can be remotely located yet networked together as a distributed system using the techniques described above. In addition, the present invention allows for multiple library servers, authoring systems and authorization servers. Conversely, the servers may be implemented as separate functions of a single machine. These alternative embodiments are illustrated in Figures 4-8 and are described in more detail below.

The mobile playback device 212 is a minimally configured, low-cost, standalone mobile unit for receiving and storing digital information files or programs as downloaded by library server 260 and client computer system 214 and for playing back the digital information files or programs for a user of the mobile playback device 212. The mobile playback device 212 is temporarily removably coupled to the client computer system 214 while the download takes place.

Once downloaded, the mobile playback device 212 may be detached from the client computer system 214 and used as a standalone digital information playback device. A co-pending U.S. Patent Application titled, "Interactive Audio Transmission, Receiving and Playback System", assigned Serial No. 08/490,537, and assigned to the Audible Words Corporation of Montclair, NJ describes the details of mobile playback device 212.

In its basic form, the preferred embodiment of the present invention is a digital information library system providing selection of digital information programming on demand over a computer network. In an alternative embodiment, the digital information programming is selected via the computer network but delivered using mass storage media 241. This alternative embodiment is described in more detail below.

The digital information library is an indexed collection of digital information programming, drawing content from digital information sources such as books, daily news and entertainment feeds, conferences and educational sources, other computer systems, the host on the World Wide Web (WWW) of the Internet, and customized audio or visual image programming. Other sources of the digital information content include, but are not limited to, conference or seminar proceedings, lecture or speech materials, language lessons, readings, comedy, customized spoken digests and related, "need-to-know" business information, computer software, local sound studio material, text to speech conversion of machine readable files, pre-recorded material from magnetic tape, CD-ROM, digital audio tape, or analog cassette tape. This digital information content is input as raw digital information content to authoring system 280 shown in Figure 2. In an alternative embodiment, a raw digital information digitizer 307 is included for receiving raw input and converting the input to a digital form which can be manipulated as a digital information file.

In an alternative embodiment, the digital information comprises digitized image or graphics data used to produce visual images on a display screen or projection screen. These images may be included in the digital information retained and maintained by the library server 260.

Authoring System

Authoring system 280 is used to edit, index, compress, scramble, segment, and catalog digital information content into digital information programs in digital information files, which are stored on mass storage media 241 or on library server 260 as scrambled and compressed digital information files 262. The digital information programs are initially categorized according to traditional criteria (e.g. genre, modern fiction, mystery, adventure, romance, non-fiction, classics, self-help, science fiction, westerns, etc.). Categories associated with specific authors or publishers are also provided. Both unabridged and abridged titles are provided. In some circumstances, it may be necessary to digitize digital information content from an undigitized form. The raw information digitizer 307 is provided for this purpose. Authoring system 280 also

partitions digital information content into segments, which can be identified, searched, and skipped over if desired. All of these functions are performed by authoring system 280.

Figure 3 illustrates the authoring system 280 of the preferred embodiment. Authoring system 280 receives digital information content from a variety of conventional sources as raw digitized data. This digital information data is fed to three components of the authoring system 280 of the preferred embodiment. The digital information compressor 314 receives the raw digital data and compresses the digitized data. There are a variety of conventional techniques in existence for compressing digital data. These techniques can be optimized depending upon the type of digital data being processed. Thus, the present invention provides several compression methods and a means for the authoring system operator 305 to select between these methods based upon the category of digital information content 310 being input to the digital information compressor 314. Alternatively, the selection of compression method may be performed automatically by interpretation of the digital information content 310 itself. A compressed digital information file is output by digital information compressor 314 to scrambler 318.

The raw digital information content 310 is also fed to template header generator 312. Each digital information file maintained by the library server 260 includes other descriptive information used to identify the file's content and to provide information used to process the digital information within the file. Each digital information file includes a template header, a descrambling map, selected preview clips, and the digital information programming itself. In the preferred embodiment, the template header comprises a number of attributes corresponding to the digital information in the file. For example, the digital information may be audio information generated from the content of a book or other published work. In this example, the audio file template header contains attributes including: 1) the title of a book, volume, or medium from which the digital information content originated, 2) the legal copyright associated with the digital information content, 3) audible title(s) of the content, 4) a table of contents of the content, and 5) playback settings for appropriately playing or rendering the digital information. The table of contents contains content navigation information including but not limited to: the number of chapters, the length of the program, and information indicative of the relevant content sections. The table of contents is generated with input from authoring system operator 305 or automatically by analysis of digital information content 310. The descrambling map 322 is used to interpret the digital information after the digital information has been scrambled by scrambler 318 as described below. The preview clips 324 comprise short pre-generated portions of digital information content used to give a consumer a sense of the content of a particular digital information file. In the preferred embodiment, these previews are generated as conventional formatted files which can be directly played by sound generation circuitry 130 or rendered by other means. A digital information file can have several preview clips associated with it. The preview clips 324 are not compressed or

scrambled in the preferred embodiment. The template header 312 remains with the digital information file as it is transferred to the network 240 or mass storage media 241. The other descriptive information related to a digital information file is typically stored with digital information file, but is not required to be so stored.

Referring again to Figure 3, template header generator 312 generates the template header given information from a particular portion of digital information content 310. Input from Authoring System Operator 305 and Digital Information Compressor 314 may be solicited during the header generation process. The template header is provided to library server 260. Other portions of the digital information file header are provided by scrambler 318 and preview generator 323. These portions of the digital information file header are assembled into the header for a particular digital information file by library server 260. The remainder of the digital information file is filled with compressed, scrambled, and segmented digital information content.

After digital information compressor 314 has compressed the raw digital information using a selected compression method suitable for the category of digital information, the scrambler 318 scrambles the digital information. The digital information is scrambled to prevent an unauthorized consumer from using the digital information. In the preferred embodiment, scrambler 318 uses a conventional encryption method to render the data unusable. A corresponding descrambling map 322 is generated to provide a means for descrambling the scrambled digital information file. A scrambling map 316 is used by scrambler 318 to scramble the digital information file. The scrambler 318 can encrypt the entire digital information file or selected critical subsets of the digital information file. The level of scrambling can be selected depending upon the capabilities of the authoring system 280, the mobile playback device 212 and/or the anticipated software player 226 on client computer system 214. In an alternative embodiment, a proprietary digital information format is used in lieu of scrambler 318.

The scrambled digital information content is output by scrambler 318 to segmentation logic 326. Segmentation logic 326 partitions the digital information content into blocks for efficient storage in and transfer to a mobile playback device 212 or software player 226 and for efficient navigation during playback. Transport integrity data is generated and appended to the segmented digital information. In an alternate embodiment, portions of the segmentation process may take place before or after digital information compressor 314 and scrambler 318. Segmentation information may also be used in the header generation process by template header generator 312. The compressed, scrambled, and segmented digital information blocks are provided to the library server 260 by authoring system 280. Library server 260 assembles the segmented digital information blocks, the descrambling map 322, the preview clip(s) 324, and the template header 312 for a particular item of digital information content into a digital information program file or files, which are stored in a digital information program file storage area 262. Other raw digital

information content is converted into digital information files using the authoring system 280 in a similar manner.

Library Server

Referring again to Figure 2, the library server 260 is responsible for maintaining the digital information program files 262 created by the authoring system 280. In addition, the library server 260 receives requests for access to the digital information program files 262 from client computer systems 214 over network 240 and manages purchase and delivery of the selected digital information files and/or delivery of selected preview clips 324. The library server 260 includes library management software 261 for performing these library server functions and a library key 263 used for the authentication protocol described below. Library management software 261 includes processing logic for receiving and responding to client computer system 214 requests for access and/or purchase of a digital information program file 262. Upon receiving such a client request, library server 260 uses authorization server 270 to authenticate the request with client information 272 generated and maintained by library server 260 or authorization server 270. The client information 272 includes client identifiers which are used to target content for playback on individual mobile playback devices 212 or software players 226. Client information 272 may also contain client personal information, user content preferences, client billing history, player usage history, and player group lists. In an alternative embodiment, portions of client information 272 may instead be stored in server 260. Using the authorization protocol described in more detail below, the library server 260 determines if the client request can be serviced. If approved, the library server 260 accesses the digital information program file(s) or preview clip(s) requested by the client computer system 214, delivers the selected preview clip(s) or builds encrypted, targeted, and digitally signed digital information files using the authentication protocol described in more detail below, and transfers the encrypted and compressed digital information file(s) to the requesting client computer system 214 via network 240. Distributable mass storage media 241 may also be used as a delivery medium for the transfer of information to client system 214. The client computer system 214 may then independently download the selected digital information files (or a subset thereof) into the mobile playback device 212 for subsequent playback. The library server 260 also collects usage statistics on the access history of the digital information files 262 and stores this usage data into usage statistic storage area 264. The library server 260 also stores operating code segments (firmware) for the client browser 219, software player 226, and for mobile playback device 212. This operating code can be downloaded to the client computer system 214 in the same manner as digital information files are transferred. Player configuration data for playback device 212 and software player 226 is stored on the library server 260 and can be customized or updated in the same manner as digital information files and firmware are

transferred. Configuration data includes, but is not limited to, audio prompts, user interface options, group ID information, and information playback parameters. Player configuration data is transferred to client computer system 214, software player 226, or mobile playback device 212 as required according to client information 272.

The library server 260 interfaces with a client application program or client browser 219 executing on client computer system 214. The client browser 219 is used to make requests of library server 260 for various types of service including, but not limited to, searching the digital information files 262 for a desired program, previewing a selected preview clip associated with a digital information file 262, purchasing a selected program, requesting operating code segments or player configuration data, and downloading the purchased program or other material to the requesting client computer system 214.

The library server 260 interface with the authorization server 270 and client computer system 214 uses the unique authentication protocol and encryption protocol of the preferred embodiment of the present invention. The preferred embodiment of these protocols is described in the sections below.

Client Computer System

Referring again to Figure 2, the client computer system 214 represents a consumer or end user computer system, typically a personal computer, such as the sample system illustrated in Figure 1, with which a consumer may browse, preview, select, purchase, and take delivery of digital information content from digital information library server 260 across distribution network 240. Client computer system 214 comprises client browser software 219, a mobile device interface 221, storage for encrypted and compressed digital information files 220 downloaded from the network 240, software player 226, and segment download data 222 derived from digital information files 220 for defining the storage segments in mobile playback device 212 and for assisting in the downloading of digital information files 220 from client computer system 214 to mobile playback device 212. Client computer system 214 also includes a server public key 215 used for authenticating digital information and software files received from server 260. Client browser software 219 provides the control logic with which the client or consumer accesses and purchases titles from the digital information library 262 of library server 260. Client browser software 219 also provides control logic which requests and downloads configuration information or operating code from server 260. The client browser software 219 can be configured to perform these operations without direct human intervention. The mobile device interface 221 is a software interface used to control the transfer of control information, operating code, and digital information files from client computer system 214 to mobile playback device 212. Encrypted and compressed digital information files 220 are received by client computer system 214 from library

server 260 over network 240. In an alternate embodiment, distributable mass storage media 241 is used instead of network 240 to transfer information to client computer system 214. The software player 226 is a software module used to emulate the operation of mobile playback device 212 and for playing digital information files through the sound circuitry 130 and audio output device 132 of client computer system 214. Operating code and configuration information for the software player 226 can be downloaded or updated from the server 260 in the same manner as the mobile playback device 212 can be downloaded or updated. The software player 226 functionality is the equivalent of the functionality and operation of the mobile playback device 212. Thus, the use of the term "player" throughout this document generally applies to both the mobile playback device 212 and software player 226. Software players 226 are assigned unique player IDs and can be assigned group IDs that function similarly to IDs assigned to mobile playback devices 212.

Mobile Playback Device

The mobile playback device 212 converts a digital information file into sound or displayable imagery which is played through audio output means or displayed on a display device. In the preferred embodiment, the mobile playback device 212 is a minimal capability, low-cost device primarily dedicated to playing audio files or displaying visual images or text on a display device. The mobile playback device 212 is minimally configured to retain its light-weight, low cost, and readily mobile features. The preferred embodiment does not therefore include the use of a portable personal computer or laptop computer as the mobile playback device 212; because, such general purpose computing devices typically do not meet the light-weight and low cost constraints of the preferred mobile playback device 212. Such general purpose computing devices typically have unnecessary functionality, more complicated interfaces, and may suffer cost and performance penalties in comparison to the special purpose mobile playback device 212. In the preferred embodiment, the mobile playback device 212 includes a processor, memory, and an interface to client computer system 214 over which compressed digital information files 216 are received. As described in more detail below, mobile playback device 212 also includes a player ID 223, group IDs 225, and server public key 215 used for authenticating digital information and software files received from server 260 via client computer system 214. The user controls the mobile playback device 212 using buttons and knobs provided on the device. These controls are used to navigate through digital information files 216, adjust configuration data and playback parameters, or perform other functions as directed by firmware stored in playback device 212. When coupled to the player, client computer system 214 or other electronic devices can solicit user input from these controls. In an alternative embodiment, a set of additional user controls is provided on a remote control unit that is coupled to the player via a wired or wireless connection. Digital information output may be provided via a headphone jack, on board speaker, or wireless transmitter to a

separate wireless receiver with speakers or headphones. Audio level can be adjusted with a volume knob. A wireless transmitter may contain an adjustment knob to adjust the transmission frequency or other transmission parameters. Visual information output is provided via LCD display, LED display, or outputs to a standard visual display device. The mobile playback device 212 contains a limited quantity of non-volatile memory, RAM, and ROM. Digital information content, configuration data, and operating code are stored in the memory space of the mobile playback device 212. Configuration data includes but is not limited to: public and private IDs, content playback parameters, and user interface parameters. The use of non-volatile memory allows portions of the digital information content, configuration data, and firmware to be updated via download. Both digital information content and firmware (operating software) is stored in this memory device. Portions of the firmware and configuration information are stored permanently in a read only memory (ROM). An internal memory allocation method is used to track the content of mobile playback device 212 memory. This allocation method, in conjunction with segment navigation data 218, also provides the means for locating desired digital information, program, configuration data, or header data resident in the mobile playback device 212 memory. The mobile playback device 212 includes an interface to the client computer system 214 through which the mobile playback device 212 receives compressed digital information files 216, software updates, and configuration changes from client computer system 214.

Downloading Digital Information Content, Software Updates, or Configuration Information From the Library Server to the Client Computer System

The client browser software 219 of client computer system 214 operates in cooperation with library management software 261 of library server 260 and the firmware resident on the mobile playback device 212 to provide a means by which a consumer may browse, preview, select, purchase, and take delivery of selected digital information content from digital information library server 260 across distribution network 240. The digital information content is typically downloaded to the client computer system 214 at the time of purchase, but it is possible to download digital information content either, 1) sometime after the purchase, or 2) multiple times after an initial purchase. The client browser 219 can be configured to download content to client computer system 214 without user intervention. In addition, portions of the client computer system 214 software itself or mobile playback device 212 resident software/firmware may be downloaded or updated from library server 260. The mobile playback device 212 resident software/firmware is downloaded through client computer system 214. If library server 260 has an updated or more recent copy of client computer system 214 software or mobile playback device 212 software/firmware, the library server copy is downloaded to replace the outdated version of the corresponding client computer system 214 software or mobile playback device software 212.

The software is encrypted, scrambled, and digitally signed in a manner similar to the scrambling and delivery of the digital information files. Changes to the ID list, audio prompts, and other configuration data for playback device 212 can be downloaded in a manner similar to the downloading of software updates from library server 260.

The preferred embodiment utilizes three authentication processes to protect the transfer of information from server 260 to client system 214 and playback device 212. First, a point-to-point authentication protocol is performed whereby the library server 260 must verify that the requesting client computer system 214 is an authorized client and the client computer system 214 must verify that the library server 260 is an authorized provider. Secondly, a targeting protocol is performed whereby the library server 260 utilizes a set of identifiers (i.e. player IDs) for mobile playback devices 212 authorized to receive the selected download data from library server 260. The mobile playback device identifiers are provided by client computer system 214 or are referenced from user profiles stored on library server 260. In the targeting process, library server 260 formats and downloads data that can only be read by mobile devices 212 with these identifiers. Thirdly, a library server digital signature is appended to the downloaded data for use by the mobile playback device 212 to verify that the downloaded data was originated by an authorized library server. These three authentication processes of the present invention are described in detail in the following sections.

Point-to-Point Authentication Protocol

The library server 260, client computer system 214, and mobile playback devices 212 each have a unique verification sequence which is used to verify the authenticity of another system. In communications between library server 260 and client system 214, both systems alternately act to (1) request verification of the other system and (2) provide an authenticating response to a verification request. Communication between mobile devices 212 and client computer system 214 use a similar authentication protocol, as well as real-time communication between mobile devices 212 and library server 260 via client system 214. This verification sequence comprises a pre-defined set of bit streams or data structures which are sent by the requesting system (i.e. the system requesting verification) to the receiving system being authenticated (i.e. the respondent) in a point-to-point transmission. The receiving system must respond to the verification sequence in a pre-defined manner by sending particular response bit streams or data structures to the requesting system. If the appropriate response data from the respondent is received by the requesting system, the system being verified is considered an authorized system. Conversely, the system being verified is considered unauthorized if the appropriate response data is not received by the requesting system prior to a pre-defined time-out period. Both systems begin communication by acting as requesters and respondents in separate verification cycles. Upon completion of these

point-to-point authentication cycles, further client/server processing only continues if both systems deem each other to be authorized systems.

In an alternate embodiment, point-to-point authentication is used in a subset of the communications among library server 260, client computer system 214, and mobile playback devices 212. In another embodiment, point-to-point authentication is not used and system security rests on the use of targeting and/or digital signature authentication.

Targeting Protocol

The targeting protocol of the present invention is a means and method for limiting the playback of digital information content, the adjustment of player configuration data, and the download of player operating code to a specified player 212/226 or a specified set of mobile playback devices 212. Each player 212/226 contains a unique player ID 223. The player ID 223 comprises a public player ID and a private player ID. The public player ID is a unique identifier and serves as a serial number for player identification. The private player ID is used to target data for individual mobile playback devices 212. Private player IDs are never sent through any communications link or network path, except during installation. In the preferred embodiment, private player IDs should be sufficiently diverse, but need not be unique.

Mobile playback devices 212 may be logically grouped together using a Group ID. Digital information content, software, or configuration data changes may be targeted to a group of mobile playback devices 212 defined by a group ID. Each player 212/226 includes memory space for storage of one or more group IDs 225 of which the particular player 212/226 is a member. Each group ID includes a public portion and a private portion, each of which is equivalent to the public and private player IDs, respectively. Each group is identified by a uniquely valued public ID that is not shared with other player or group IDs. Digital information content, software, or configuration data can be targeted to a particular group ID in the same way as it would be targeted for a specific player ID. Mobile playback devices 212 in the same group share the same Group ID. A particular Group ID is pre-defined as the global group to which all mobile playback devices 212 are a member. Mobile playback devices 212 may be members of more than one group. A particular player 212/226 is added to a new group by appending the new group ID to the set of group IDs 225 maintained in the particular player 212/226. The new group ID is appended after the server 260 provides a public group ID and a group key to the player 212/226 via client computer system 214. The player 212/226 generates a private group ID from the combination of the group key and the mobile playback device's 212 private player ID. As with the private player ID, the private group ID is never sent through any communications link or network path, except during installation. In an alternative embodiment, players receive the group private ID directly or by combining the group key with the players public ID or other known numeric value. In another

alternative embodiment, the private group ID is not used in the targeting process and is not transferred to the player. The group assignment process may be restricted to using real-time communications between server 260 and the player via client system 214, or it may take place sometime after group assignments have been downloaded to client system 214. Having described the player IDs and group IDs defined in the present invention, the use of these IDs in the targeting protocol is described next.

Library server 260 includes a player ID table 266 as shown in Figure 2. Player ID table 266 includes a storage area for private IDs and public IDs. The private IDs are pre-loaded into player table 266 when a new mobile playback device is installed into the system or when a new group is established. In another embodiment, ID table 266 is a mathematical function which converts group or player public IDs. Public player and group IDs are sent by a client computer system 214 to the server 260 when the client computer system 214 desires to target a particular player 212/226 or set of mobile playback devices 212 to a particular specified digital information, software content, or configuration data selection. Digital information selection is made from the files 262 stored on library server 260. Software or configuration data selection is made from files stored on server 260 or from data generated upon request by server 260. Software content and configuration data is prepared and scrambled in a manner similar to the authoring process for digital information content. Once an association is made by client computer system 214 between a set of targeted public IDs and the associated data to be transferred from server 260, library server 260 creates a targeted header for the selected files. The library management software 261 consults the public ID to private ID table 266 to locate the corresponding targeted private ID(s). The targeted header comprises a combination of the descrambling map 322 from the selected files with the private player IDs corresponding to the targeted mobile playback devices 212. The descrambling map 322 is thereby encrypted using the secret IDs of the targeted mobile playback device(s) 212. This targeted header is linked with the corresponding digital information or software content of the selected file in a network transport ready data block. A digital signature is applied to the data block as described below in connection with the data signature protocol. Transport integrity data (such as the use of checksums or cyclic redundancy check) is applied to the data block and the data block is sent to the client computer system 214 via network 240. Because the data block can only be unscrambled using the corresponding descrambling block 322 in its header and because the descrambling block 322 was combined (i.e. encrypted) with a private ID known only by the targeted mobile playback device(s) 212, only the targeted mobile playback device(s) 212 will be able to unscramble and read the data block. The selected digital information, software content, and configuration data is thereby targeted to a particular set of mobile playback devices 212.

For small groups of mobile playback devices 212, each targeted header of a digital

information file may contain a plurality of descrambling maps, each associated with a different player 212/226. In this manner, multiple mobile playback devices 212 can read a single file 220 stored on the client computer system 214.

A person of ordinary skill in the art will note that alternative methods of targeting exist. In an alternative embodiment, library server 260 uses the targeted recipient's private player 212/226 identifier or the targeted group's private group identifier to generate scrambling map 316. Descrambling map 322 is not stored with the file as it is already known by the recipient player or group. This method targets content to a single player 212/226 or group and achieves the identical result of preventing unauthorized playback of content.

In another alternative embodiment, library server 260 does not scramble the digital information content or uses a known key to scramble the digital information content. In this embodiment, descrambling map 322 is unnecessary and is not stored with the file. Either the public or private player 212/226 identifier can be stored in the header for targeting identification purposes. Upon receipt of data from library server 260, the player 212/226 checks if its player 212/226 identifier or group identifier is included in the header. This method assumes unmodified mobile playback devices 212 and achieves the identical result of preventing unauthorized playback of content.

In another alternative embodiment, the player IDs for the targeted mobile playback devices 212 are sent to the library server 260 by the client computer system 214 when the user registers with the library server 260 to obtain the user's client ID. In this alternative embodiment, these player IDs are stored on the library server 260 in a user profile. In this embodiment, the library server 260 manages the player IDs for the targeted mobile playback devices 212.

Digital Signature Protocol

The third authentication protocol used in the present invention is the digital signature protocol. For selected data blocks generated by library server 260 and downloaded to a client computer system 214, library server 260 uses its private library key 263 to apply a digital signature to the data block. The digital signature comprises a known bit string or data pattern which is combined with the data in data blocks that are downloaded from library server 260 to client computer system 214. The library server 260 may perform this operation on all the data blocks or a selected subset of the data blocks. After a data block is downloaded to a player 212/226 through a client computer system 214, the player 212/226 can retrieve the digital signature applied by the library server 260 using a public server key known to the player 212/226. The player 212/226 can thereby verify that the data block originated with an authorized library server 260. The public server key is also known to client computer system 214, which can perform the identical operation to verify that the data block originated with an authorized library

server 260. In this embodiment, library server 260 performs signatures on the content. A person of ordinary skill in the art would realize that the signatures may also be performed on the digital information by authoring system 280. The signatures may also be performed in a multiple step process shared by authoring system 280 and library server 260.

In an alternate embodiment, digital signatures are applied to downloaded material by a trusted client computer system 214. In another alternate embodiment, digital signatures are not applied to downloaded material and system security rests on the use of targeting and/or point-to-point authentication.

Downloading Digital Information Content, Software Updates, or Configuration Information From the Client Computer System to the Mobile Playback Device

In a first step, the client computer system 214 and the mobile device use the point-to-point authentication protocol described above to verify that an authorized mobile playback device 212 is communicating with an authorized client computer system 214. If this is the case, the mobile playback device 212 transmits its memory map to the client computer system 214 via the mobile device interface 221. A table of contents defining the available digital information files 220 and player configuration profiles resident in client computer system 214 is displayed along with the mobile playback device 212 memory map for a user of client computer system 214. The user selects which files 220 of client computer system 214 should replace portions or segments of specified mobile playback device 212 memory as defined by the mobile playback device 212 memory map. Alternately, client browser 219 can be configured to automatically perform this selection process. In either case, the user is prevented from selecting digital information content larger than the available memory of playback device 212. In addition, control software and/or configuration data for playback device 212 may be automatically updated by client computer 214. The specified digital information files 220, associated headers, operating code, or configuration data are thereafter downloaded into mobile playback device 212 memory. The mobile playback device 212 uses checksums to verify the integrity of the download. The mobile playback device 212 uses the server public key 215, the header, and the digital signature to authenticate the download as described above. The header descrambling map is used by targeted mobile playback devices 212 to unscramble the downloaded data. In other embodiments, mobile playback device 212 may unscramble the downloaded data and/or decompress the downloaded data before authenticating the signature. Each segment of the digital information content may be independently authenticated and validated using any of the techniques described above. Digital information prompts on the mobile playback device 212 guide the user to the desired portion of the

downloaded digital information content as specified by the table of contents residing in the header of the downloaded data. The user may preview selected portions of the digital information content by selecting a preview option. The preview option plays a predetermined portion of a selected digital information program. Upon selection of a particular digital information program, the selected digital information program is played for the user after the mobile playback device 212 converts the digital information content into sound or displayable imagery which is played through an audio output means or displayed on a display device.

The software player 226 of client computer system 214 may also receive digital information content in approximately the same form as the digital information content downloaded to the mobile playback device 212; however, the digital information content for the software player 226 does not need to be downloaded to the software player 226. The software player 226 has direct access to the digital information content; because, it shares memory and/or disk storage space with the client computer system 214. Therefore, there are no downloading or memory map concerns. In the same manner as the mobile playback device 212, the software player 226 performs digital signature verification, verification of checksums, and receiving targeted information. In an alternative embodiment, software player 226 may use a communication protocol similar to that of mobile playback device 212 when receiving digital information content, configuration information, and dynamically downloaded software.

Figure 4 illustrates an alternative embodiment of the present invention. As shown in Figure 4, authoring system 280 can support a plurality of library servers 260. Each library server can be configured to support a specific type of digital information content. In the same manner described above, the client computer systems 214 access network 240 and obtain digital information content from any of the library servers 260 after performing the authentication process described above. Authorization server 270 is provided for this purpose. The configuration illustrated in Figure 4 provides a more distributed architecture thereby dispersing the load across several server platforms. A site with many client computer systems 214 may have its own library server 260 to reduce demand on network 240. This architecture scales well as the number of client computer systems 214 grows and the content provided by the library server 260 grows.

Figure 5 illustrates another embodiment of the present invention except the library server 461 has been implemented as a plurality of separate processes or tasks 460 running concurrently on a single library server platform 461. Each library server process 460 services requests for access to its corresponding portion of the digital information content. This content is created using authoring system 280 in the manner described above. The authorization server 270 is used to validate the links between the client computer systems 214 and the library server processes 460. The configuration illustrated in Figure 5 is advantageous in that the convenience of a single server is maintained while the scalability of multiple libraries is also supported.

This concept can also be used for the authoring and authorization servers 280 and 270, respectively. As shown in Figure 6, the authoring system 280 and the authorization server 270 is implemented on a single platform 685 as authoring process 680 and authorization process 670. These processes perform the same functions as described above, except the implementation provides the convenience of a single server and the scalability of multiple processes for the authoring and authorization tasks.

Figure 7 illustrates yet another alternative embodiment wherein the client computer systems 214 include a local library 710. The local library 710 provides a local storage area and library access control functionality which provides access to a subset of the archived digital information from library server 260. In the manner described above, the user of a client computer system 214 identifies the titles or items of digital information in library server 260 that the user wishes to access. In the preferred embodiment, these content selections are transferred to a client storage area 220 (as shown in Figure 2) for subsequent downloading to mobile playback device 212. The embodiment shown in Figure 7 expands upon the client storage area 220 and creates a local library 710. The local library 710 is used for storage of selected content; but also for searching, sorting, categorizing, and abstracting the locally stored content. The local library 710 allows a client computer system 214 to maintain a small subset of the full library which may be used to create custom collections of content in a variety of user selected configurations. Client systems 214 may be permitted to access the contents of local libraries 710 on other client systems 214. In a related alternate embodiment, library server processes 460 may also reside on selected client systems 214. This embodiment allows client systems 214 to browse and purchase content that is scrambled, targeted, and delivered from library server process 460 executing on a locally positioned client system 214. By maintaining the library locally, a portion of the network access and transfer overhead is eliminated.

Figure 8 illustrates another alternative embodiment of the present invention wherein the client computer system 214 is eliminated and the mobile playback device 212 is connected directly to the network 240 through network interface 810. In the preferred embodiment, the mobile playback device 212 is a **minimal capability device primarily dedicated** to playing audio files or displaying visual images or text on a display device. The mobile playback device 212 is minimally configured to retain its **light-weight, low cost, and readily mobile** features. The preferred embodiment does not therefore include the use of a portable personal computer or laptop computer, because, such devices typically do not meet the light-weight and low cost constraints of the preferred mobile playback device 212. However, the minimal mobile playback device 212 may be augmented to add network interface 810 which comprises a conventional hardware connector, hardware buffers and controllers, and firmware support for a particular conventional network protocol. For example, the mobile playback device 212 may be augmented with an **integrated**

modem that includes a telephone jack with which the playback device may be connected to a telephone network. It will be apparent to those of ordinary skill in the art that network interface 810 may be implemented in a low cost and light-weight device such as mobile playback device 212. Because the client system browser 219 would not be available in the alternative embodiment shown in Figure 8, a simplified user interface may be provided in firmware or other non-volatile memory of mobile playback device 212 with which the user may select items of digital information for download and playback from library server 260. As described above, the authentication process to validate the link between the mobile playback device 212 and the library server 260 must also be performed prior to user access to the library server 260 content. Alternatively, a client system 814 coupled to network 240 may be provided to support client browser 219 and thereby enable selection of items of digital information for download and playback from library server 260 directly to any of the mobile playback devices 212. Client systems 814 may support local storage of digital information, software, and configuration data in a form similar to storage space 220 or local library 710. In addition, a more simplified implementation of network interface 810 may be designed to communicate via network 240 to client system 814 instead of library server 260.

In another alternative embodiment of the present invention, digital information programming selections are made using the client computer system 214 and library server 260 as described above; however, the selections are delivered on mass storage medium 241. Mass storage medium 241 represents any of a variety of conventional mass storage technologies including CD-ROM, PCMCIA cards, DVDs, floppy disks, removable hard drives, digital magnetic tape, optical cards, flash memory or other optical, magnetic, electronic, or semiconductor memory devices. Upon selection by a user of a client computer system 214, selected programming is targeted and scrambled as described above and transferred to a selected mass storage medium 241 and mailed, hand-delivered, or held for pickup by the user. Once the user takes physical possession of the selected mass storage media 241, the selected programming may be read from the mass storage medium 241 by the client browser 219 and thereafter transferred to the mobile playback device 212 as described above. Figure 9 illustrates another embodiment of the system that does not include the use of client computer 214 to transfer data to mobile playback device 212. Kiosk 910 consists of a computer system such as the one described above in Figure 1. Kiosk 910 is a publicly accessible unit that can perform browse, content purchase, and download functions in a manner equivalent to a client computer system 214. The kiosk 910 is special because it contains its own library server for fast local access and download of content. Kiosk 910 contains a mobile device interface 221, a special version of client browser 219, and local library server process 460. Kiosk library server process 460 has local storage of scrambled and compressed digital information files 262. These compressed information files 262 originate from remote authoring system 280 and may be delivered via physical transport of mass

storage media 241 or via distribution network 240. A customer operates client browser 219 to browse, select, and purchase digital information files that are delivered to the customer's mobile playback device 212. Authentication, targeting, and download processes are performed within the kiosk by library server process 460 that is connected to remote authorization server 270 over network 240. In a related embodiment, figure 7 shows a client system 214 with local library 710 that can be converted into a kiosk with functionality similar to kiosk 910. In this system, a special version of client browser 219 provides the same user functionality as the previous kiosk embodiment.

An alternate embodiment of the system uses a common communication network to connect all system components. In Figure 10, network 240 is directly coupled to client system 214 and 814, network interface(s) 810, library server(s) 260, authorization server 270, and authoring system(s) 280. One of ordinary skill in the art will realize that network 240 can also be segmented into a number of independent networks or communication links without changing the functionality of the system.

Thus, a method and apparatus for implementing a computer network based digital information library system employing authentication and encryption protocols for the secure transfer of digital information library programs, software, and configuration data to a client computer system and a mobile digital information playback device removably connectable to the client computer system is disclosed. Although the present invention has been described with respect to specific examples and subsystems, it will be apparent to those of ordinary skill in the art that the invention is not limited to these specific examples or subsystems but extends to other embodiments as well. The present invention includes all of these other embodiments as specified in the claims that follow.

CLAIMS

We claim:

1. A computer based library and information delivery system for accessing and obtaining selected digital information files, said library and information delivery system comprising:

a library server having a plurality of digital information files;

a client computer system coupled to said library server over a network; and

a mobile device removably connectable to said client computer system, said client computer system including logic for requesting a download of a selected one or more of said digital information files from said library server, said client computer system further including logic for downloading said selected one or more of said digital information files to said mobile device.

2. The library and information delivery system as claimed in Claim 1 further including an authoring system coupled to said library server for generating or modifying said plurality of digital information files.

3. The library and information delivery system as claimed in Claim 1 wherein said plurality of digital information files includes audio files, spoken audio files, visual image files, text files, video files, multimedia files, operating code files, or configuration information files.

4. The library and information delivery system as claimed in Claim 1 wherein said library server further includes library management software for interfacing with said client computer system and said plurality of digital information files.

5. The library and information delivery system as claimed in Claim 1 wherein said client computer system further includes a client browser for interfacing with said library server and for making selections of one or more of said digital information files from said library server.

6. The library and information delivery system as claimed in Claim 1 wherein said client computer system further includes a player for tangibly playing said selected one or more of said digital information files on said client computer system.

7. The library and information delivery system as claimed in Claim 1 wherein said mobile device further includes a means for tangibly playing said selected one or more of said digital information files downloaded from said client computer system.

8. The library and information delivery system as claimed in Claim 1 further including an authorization server coupled to said library server for authorizing access to said plurality of digital information files by said client computer system.

9. The library and information delivery system as claimed in Claim 1 wherein said library server is a software process running on several computer systems.

10. The library and information delivery system as claimed in Claim 2 wherein said library server and said authoring system run on different computer systems.

11. The library and information delivery system as claimed in Claim 8 wherein said library server and said authorization server run on different computer systems.

12. The library and information delivery system as claimed in Claim 1 further including an authoring system coupled to said library server for generating or modifying said plurality of digital information files, said library and information delivery system further including an authorization server coupled to said library server for authorizing access to said plurality of digital information files by said client computer system, said library and information delivery system running on a single computer system.

13. The library and information delivery system as claimed in Claim 1 further including an authoring system coupled to said library server for generating or modifying said plurality of digital information files, said library and information delivery system further including an authorization server coupled to said library server for authorizing access to said plurality of digital information files by said client computer system, said authoring system and said authorization server running on a different computer system than said library server.

14. The library and information delivery system as claimed in Claim 1 wherein said client computer system further includes a local library for local storage of a selected portion of said plurality of digital information files.

15. The library and information delivery system as claimed in Claim 1 wherein said mobile device further includes a network interface for direct communication with a network without the aid of a client computer system.

16. The library and information delivery system as claimed in Claim 1 wherein said logic for downloading further includes logic for limiting said download based on available memory of said mobile device.

17. The library and information delivery system as claimed in Claim 1 wherein said logic for downloading further includes logic for performing authentication on each segment of said digital information files downloaded to said mobile device.

18. The library and information delivery system as claimed in Claim 1 wherein said client computer system further includes logic for previewing said digital information files prior to being downloaded to said mobile device.

19. The library and information delivery system as claimed in Claim 1 further including authentication logic for authenticating access to said library, said authentication logic including a means for performing a point-to-point authentication protocol.

20. The library and information delivery system as claimed in Claim 1 further including authentication logic for authenticating access to said library, said authentication logic including a means for performing a targeting authentication protocol.

21. The library and information delivery system as claimed in Claim 1 further including authentication logic for authenticating access to said library, said authentication logic including a means for performing a digital signature authentication protocol.

22. In a computer based library and information delivery system, said library and information delivery system including a library server having a plurality of digital information files, a client computer system coupled to said library server over a network, and a mobile device removably connectable to said client computer system, a method for accessing and obtaining selected digital information files comprising the steps of:

requesting a download of a selected one or more of said digital information files from said library server; and

downloading said selected one or more of said digital information files to said mobile device.

23. The method as claimed in Claim 22 further including a step of generating or modifying said plurality of digital information files.

24. The method as claimed in Claim 22 wherein said plurality of digital information files includes audio files, spoken audio files, visual image files, text files, video files, multimedia files, operating code files, or configuration information files.

25. The method as claimed in Claim 22 further including a step of activating library management software for interfacing with said client computer system and said plurality of digital information files.

26. The method as claimed in Claim 22 further including a step of interfacing with said library server and for making selections of one or more of said digital information files from said library server.

27. The method as claimed in Claim 22 further including a step of tangibly playing said selected one or more of said digital information files on said client computer system.

28. The method as claimed in Claim 22 further including a step of tangibly playing said selected one or more of said digital information files downloaded from said client computer system.

29. The method as claimed in Claim 22 further including a step of authorizing access to said plurality of digital information files by said client computer system.

30. The method as claimed in Claim 22 further including the steps of generating or modifying said plurality of digital information files, and authorizing access to said plurality of digital information files by said client computer system, said library and information delivery system running on a single computer system.

31. The method as claimed in Claim 22 further including a step of locally storing a selected portion of said plurality of digital information files.

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32. The method as claimed in Claim 22 further including a step of directly communicating with a network without the aid of a client computer system.

33. The method as claimed in Claim 22 further including a step of limiting said download based on available memory of said mobile device.

34. The method as claimed in Claim 22 further including a step of performing authentication on each segment of said digital information files downloaded to said mobile device.

35. The method as claimed in Claim 22 further including a step of previewing said digital information files prior to being downloaded to said mobile device.

36. The method as claimed in Claim 22 further including a step of performing a point-to-point authentication protocol.

37. The method as claimed in Claim 22 further including a step of performing a targeting authentication protocol.

38. The method as claimed in Claim 22 further including a step of performing a digital signature authentication protocol.

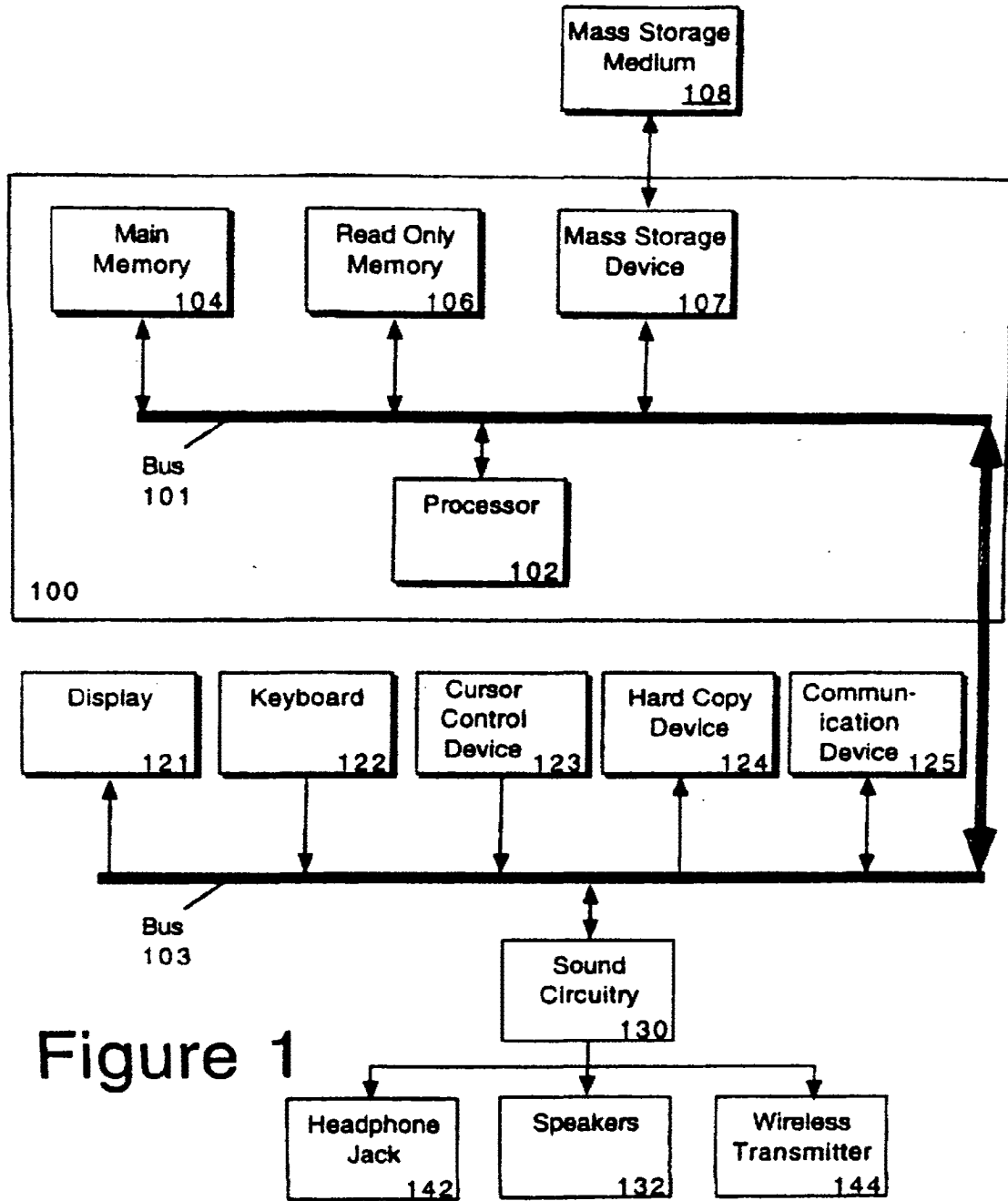


Figure 1

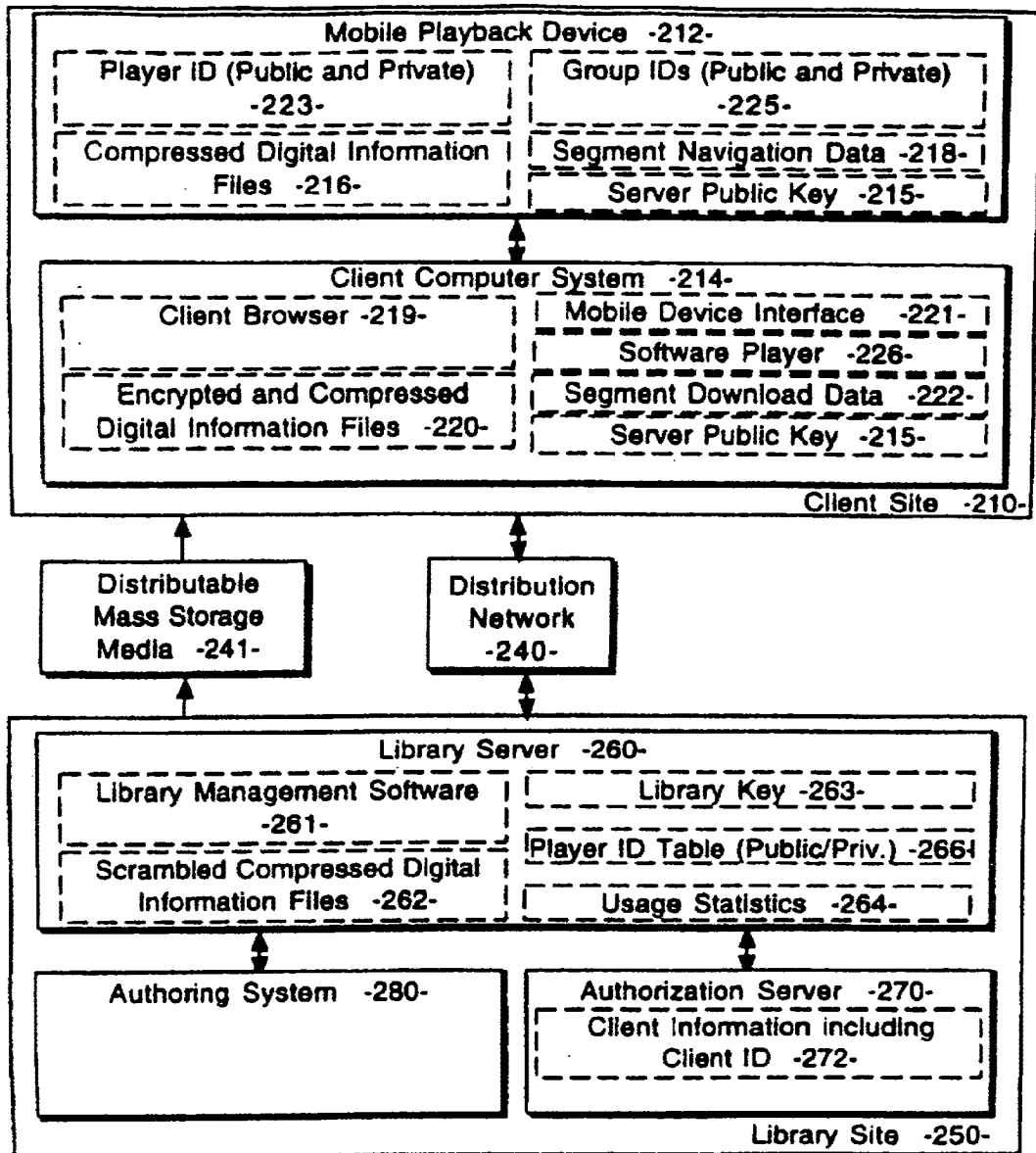


Figure 2

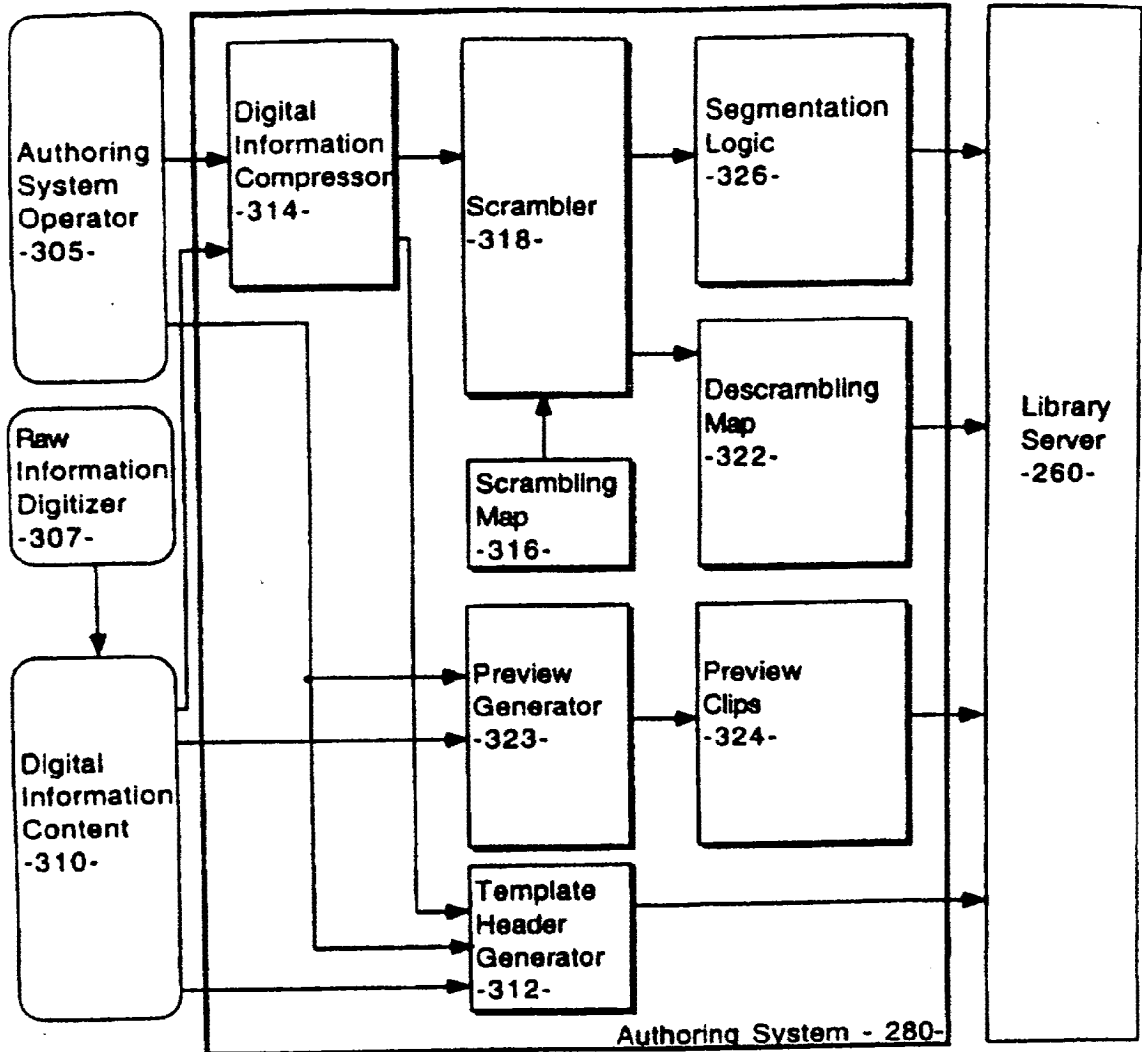


Figure 3

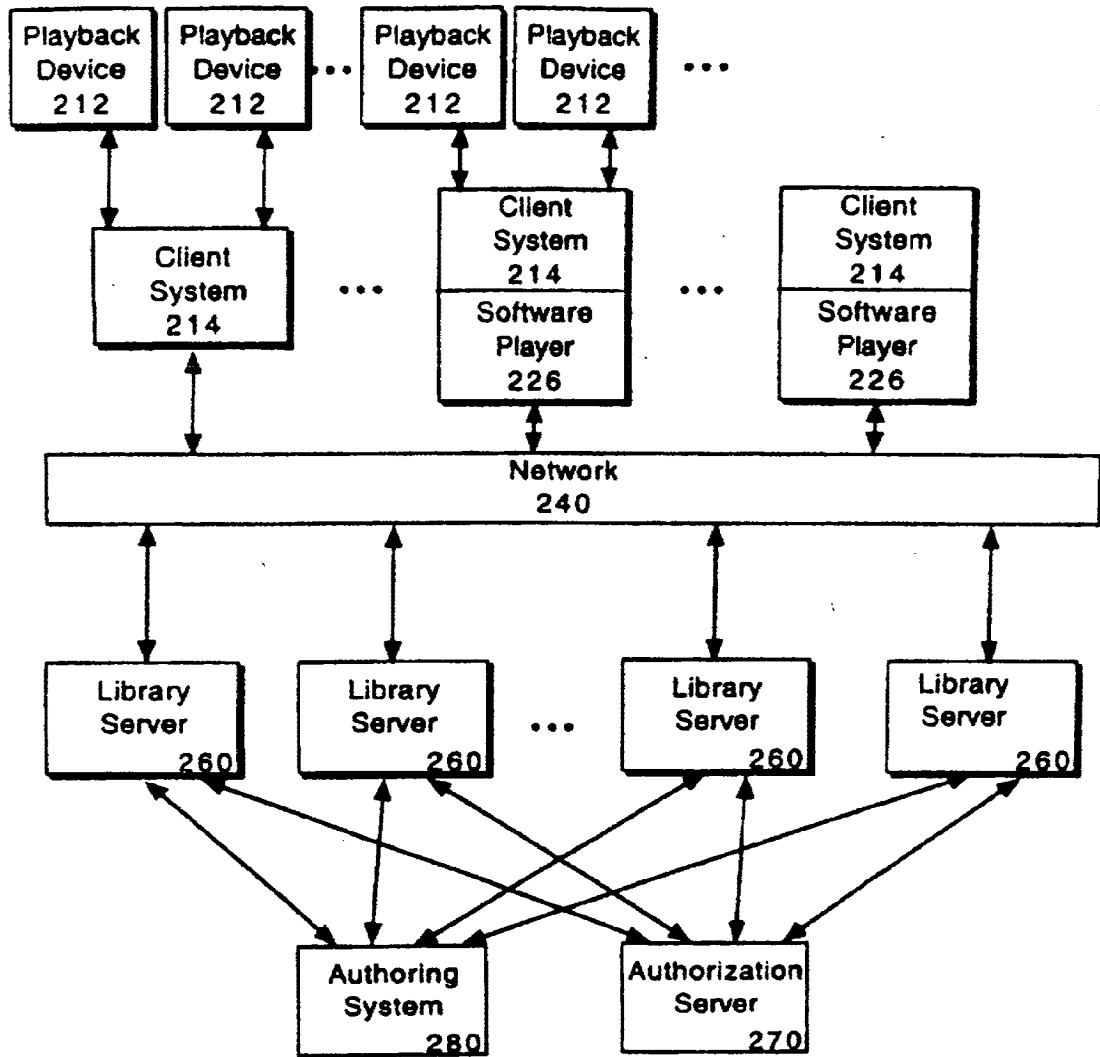


Figure 4

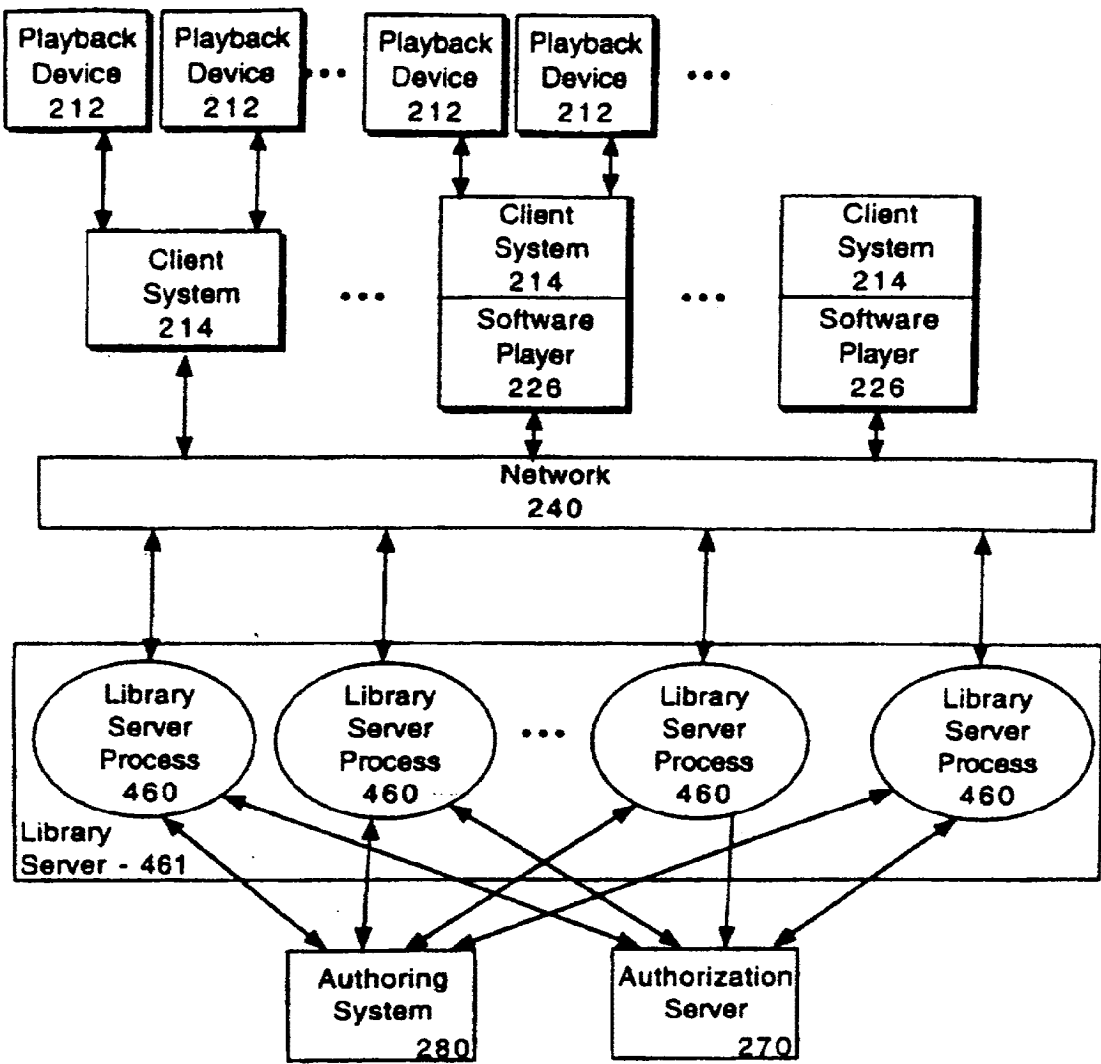


Figure 5

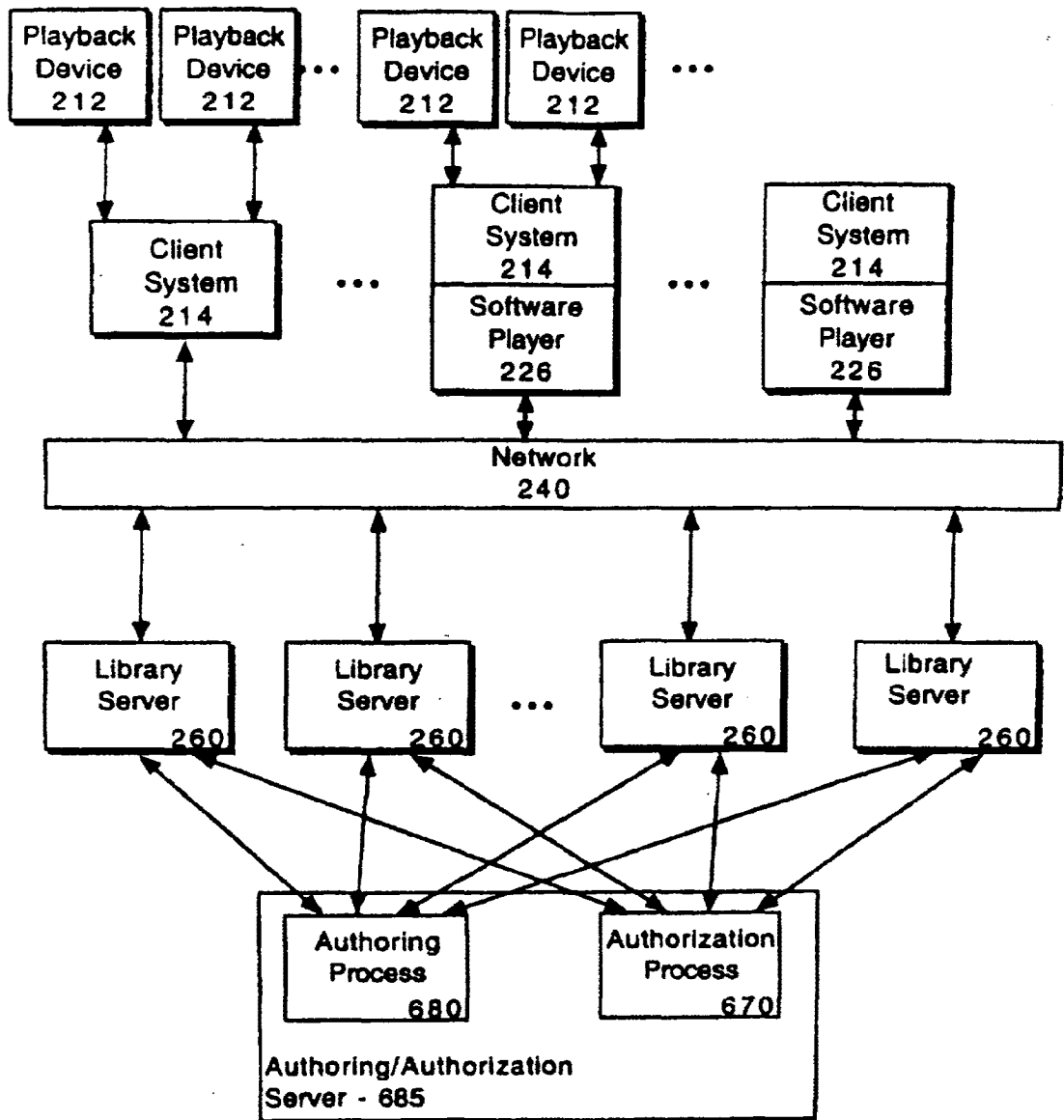


Figure 6

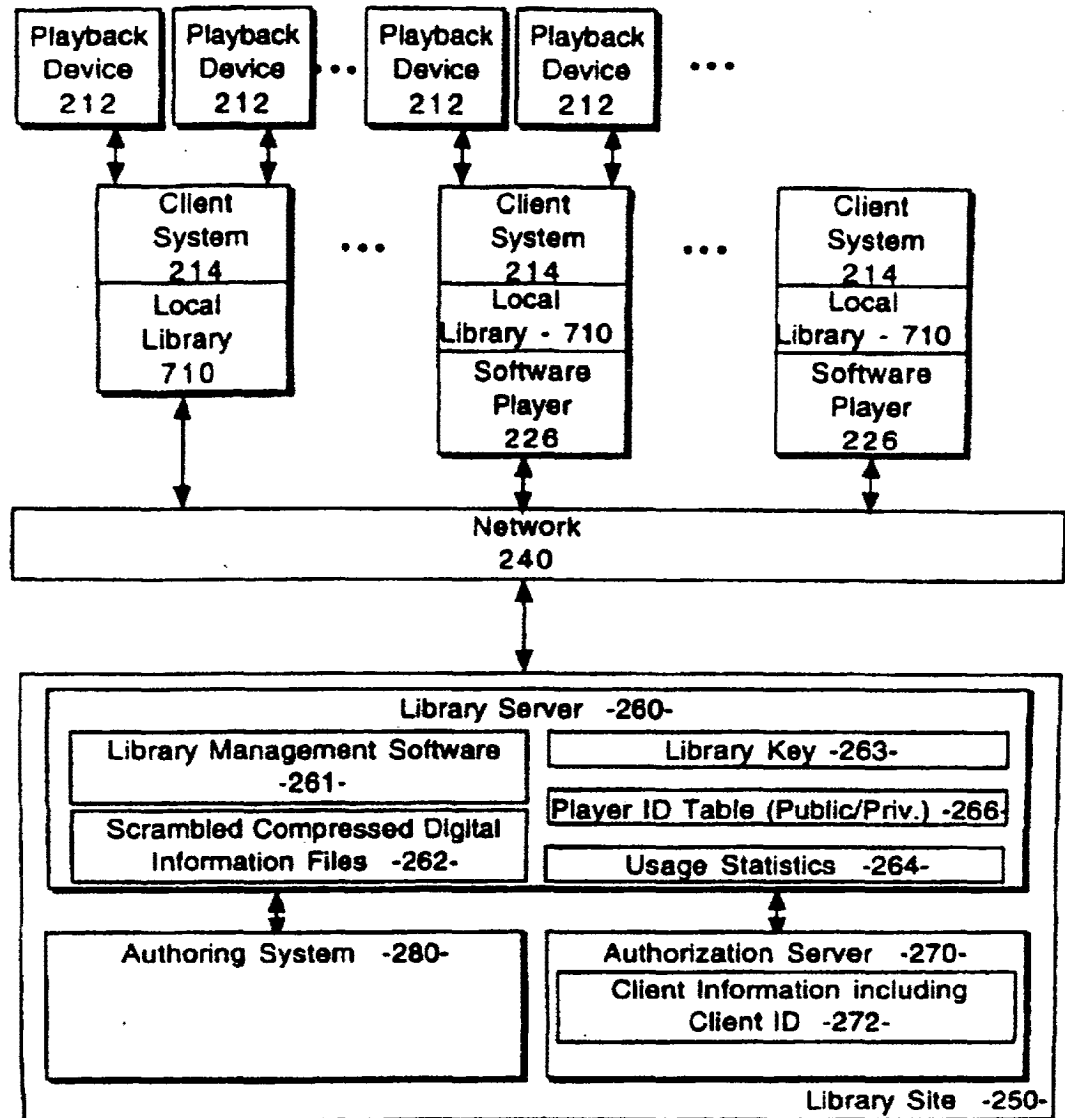


Figure 7

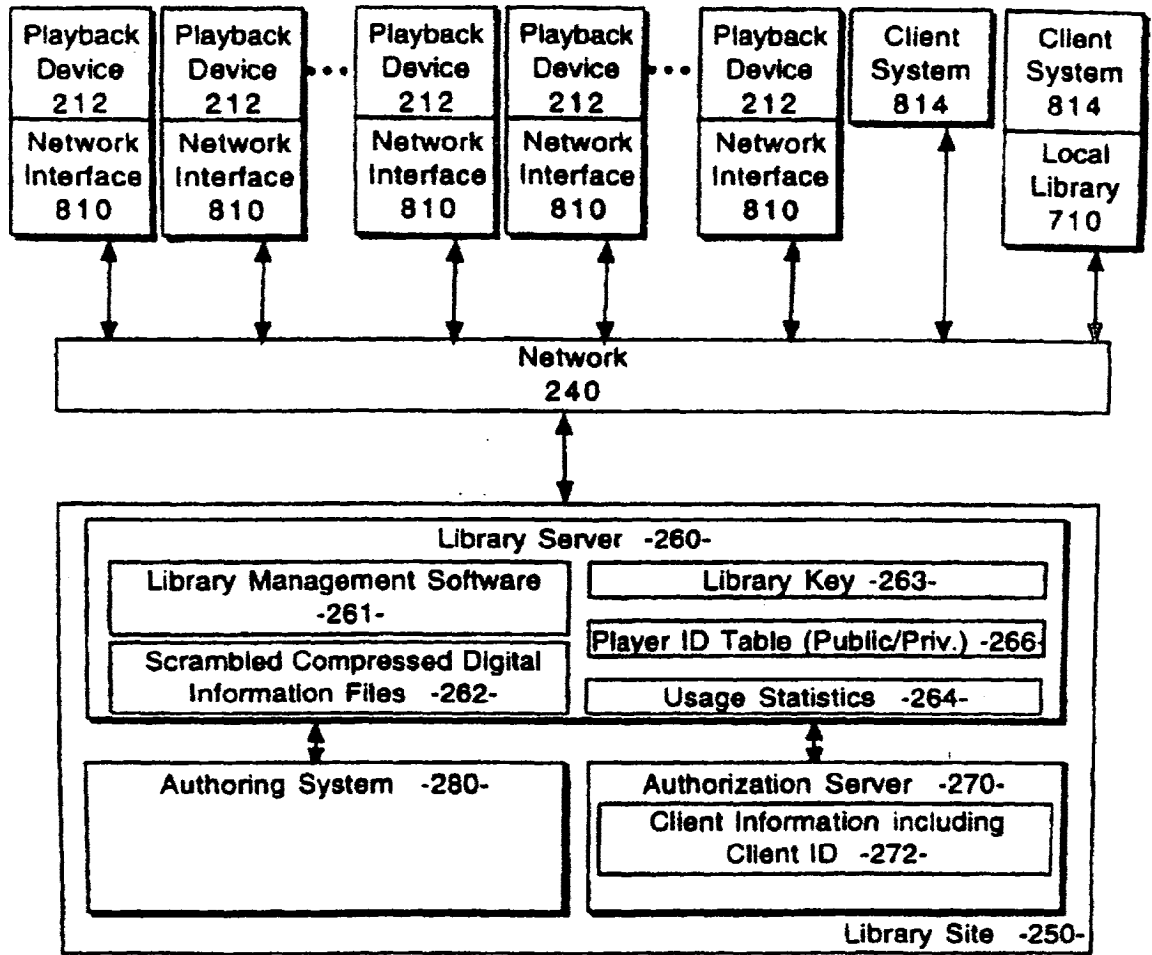


Figure 8

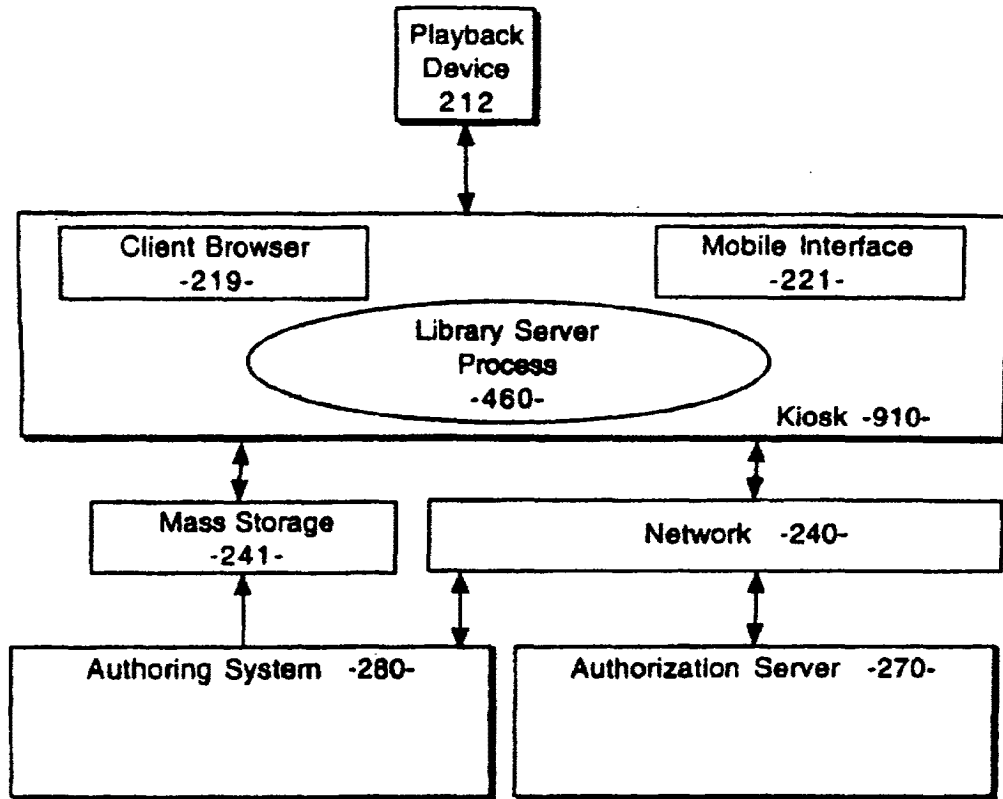


Figure 9

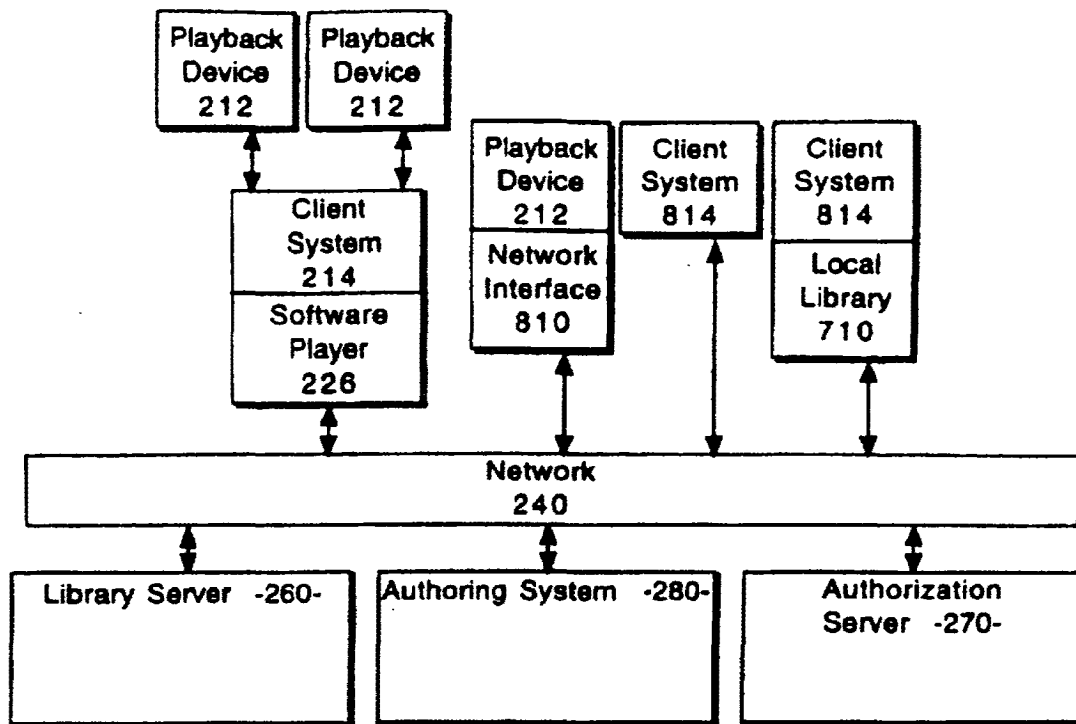


Figure 10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/16184

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :G06F 13/00; H04M 11/00
US CL : 395/200.47, 200.49; 705/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 395/200.31, 200.32, 200.47, 200.48, 200.49; 345/327, 156, 169; 705/26, 27

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,440,336 A (BUHRO et al.) 08 August 1995, col.4 lines 49-60.	1-38
Y,P	US 5,634,080 A (KIKINIS et al.) 27 May 1997, fig.47, 48	1, 22
Y,P	US 5,579,471 A (BARBER et al) 26 November 1996. col.3 lines 39-68.	5-9 18, 25-28
A	RAMANATHAN ET AL. "Architectures for personalized multimedia", IEEE Multimedia, 1994, all	1-38
Y	DESMEDT ET AL. "Multi-receivier / Multi-sender network security", INFOCOM '92, p.2045-2054	19-21, 35-38

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	*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
A document defining the general state of the art which is not considered to be of particular relevance	*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
B earlier document published on or after the international filing date	*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
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)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 25 NOVEMBER 1997	Date of mailing of the international search report 30 JAN 1998
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized Officer DUNG DINH Telephone No. (703) 305-9600

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/16184

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/603,271	
	Filing Date	June 24, 2003	
	First Named Inventor	Michael E. Shanahan	
	Art Unit	2686	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	4	Attorney Docket Number	MES/002CONIII

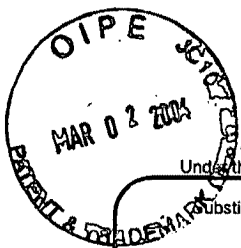
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks Submitted in accordance with 37 C.F.R. Section 1.97(b)(3).		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Law Offices of Scott H. Kaliko, L.L.C. Scott H. Kaliko, Esq. Reg No. 45,786
Signature	<i>Scott H. Kaliko</i>
Date	2/26/04

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Substitute for form 1449/PTO		Application Number	10/603,271
		Filing Date	JUNE 24, 2003
		First Named Inventor	Michael E. SHANNAN
		Art Unit	2686
		Examiner Name	
		Attorney Docket Number	MES/CON III
Sheet	1	of	3

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US- 5,220,420	06-15-1993	Hoarty, et al.	
		US- 5,247,347	09-21-1993	Litter, et al.	
		US- 5,253,275	10-12-1993	Yurt, et al.	
		US- 5,262,275	11-16-1993	Mincer, et al.	
		US- 5,341,474	08-23-1994	Gelman, et al.	
		US- 5,428,606	06-27-1995	Moskowitz	
		US- 5,440,336	08-08-1995	Buhro, et al.	
		US- 5,442,749	08-15-1995	Northcutt, et al.	
		US- 5,508,733	04-16-1996	Kassatly	
		US- 5,524,141	06-04-1996	Braun, et al.	
		US- 5,528,281	06-18-1996	Grady, et al.	
		US- 5,541,917	06-30-1996	Farris	
		US- 5,550,557	08-27-1996	Verbiest, et al.	
		US- 5,550,578	08-27-1996	Hoarty, et al.	
		US- 5,550,863	08-27-1996	Yurt, et al.	
		US- 5,553,311	09-03-1996	McLaughlin, et al.	
		US- 5,557,675	09-17-1996	Schupak	
		US- 5,561,688	10-01-1996	Jones, Jr.	
		US- 5,563,649	10-08-1996	Gould, et al.	

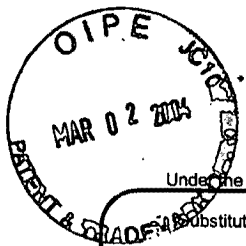
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Sheet 2 of 3

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Application Number	10/603,271
Filing Date	JUNE 24, 2003
First Named Inventor	Michael E. Shanahan
Art Unit	2686
Examiner Name	
Attorney Docket Number	MES/002 CON 111

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US- 5,566,353	10-15-1996	Cho, et al.	
		US- 5,568,181	10-22-1996	Greenwood, et al.	
		US- 5,570,126	10-29-1996	Blahut, et al.	
		US- 5,613,190	03-18-1997	Hylton, et al.	
		US- 5,613,191	03-18-1997	Hylton, et al.	
		US- 5,619,247	04-08-1997	Russo	
		US- 5,625,404	04-29-1997	Grady, et al.	
		US- 5,625,405	04-29-1997	DuLac, et al.	
		US- 5,644,354	07-01-1997	Thompson, et al.	
		US- 5,675,738	10-07-1997	Suzuki, et al.	
		US- 5,677,905	10-14-1997	Bigham, et al.	
		US- 5,680,325	10-21-1997	Rohner	
		US- 5,790,423	08-04-1998	Lau, et al.	
		US- 5,793,413	08-11-1998	Hylton, et al.	
		US- 5,793,980	08-11-1998	Glaser, et al.	
		US- 5,880,770	03-09-1999	Ilcisin, et al.	
		US- 5,926,624	07-20-1999	Katz, et al.	
		US- 5,943,046	08-24-1999	Cave, et al.	
		US- 5,983,069	11-09-1999	Cho, et al.	

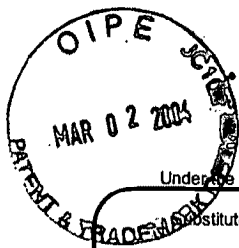
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Application Number	10/603,271
Filing Date	JUNE 24, 2003
First Named Inventor	Michael E. Shanahan
Art Unit	2686
Examiner Name	
Attorney Docket Number	MES/002 CON/11

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	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 ² (if known)			
		US- 5,986,690	11-161999	Hendricks	
		US- 6,002,720	12-14-1999	Yurt, et al.	
		US-			
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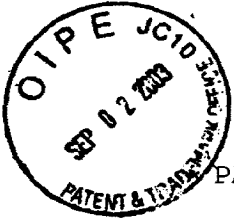
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
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PATENTS
MES/002 CON II

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant : Michael E. Shanahan
Serial No. : 10/603,271
Filed: : June 24, 2003
For : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO
ELECTRONIC DEVICES
Group Art Unit : not yet assigned

August 28, 2003

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

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97, applicants wish to call the attention of the Examiner to the documents cited in the Supplemental Information Disclosure Statement (IDS) filed herewith. Because these references are being cited in this case before the mailing date of the Office Action on the merits, pursuant to 37 C.F.R. § 1.97(b)(3), applicant believes no fee is due in connection with this Supplemental IDS.

U.S. Patents

Mitzlaff	4,866,766	September, 1989
Davis	4,868,561	September, 1989
Britz	5,414,444	May 9, 1995
Yamada	5,414,751	May, 1995
Kyronlahti et al.	5,452,354	September, 1995
McMahan et. al.	5,461,666	October 24, 1995
Shirai	5,572,571	November 6, 1996
Atcheson et al.	5,583,763	December, 1996
Hanson et al.	5,600,712	February, 1997
Newland	5,606,597	February 25, 1997
DeLuca et. al.	5,612,682	March 18, 1997
Eisdorfer et al.	5,724,411	March, 1998
Logan et al.	5,732,216	March, 1998
Krane	5,799,063	August, 1998
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Wallace et al.	5,933,328	August, 1999
Kim	5,940,775	August 17, 1999
Schulhof et al.	5,948,059	September, 1999
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Blanvillain et al.	5,953,408	September, 1999
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Morishima	6,075,998	June, 2000
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Foti	6,138,006	October, 2000
Burg	6,219,413	April, 2001
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Toshida	6,229,990	May, 2001
Spiecher	6,243,375	June, 2001
Yoshino	6,308,086	October, 2001
Schnarel et al.	6,389,124	May, 2002
Ryu	6,483,531	November, 2002
Shanahan	6,496,692	December, 2002

Foreign Patents

Vazvan	WO 00/36857	June 2000
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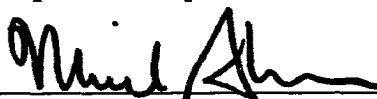
Other Documents

PCT Search Report PCT/US00/32920, Mar. 20, 2002
SGS Thompson Microelectronics ST 5092 Data Sheet pp. 1-29

Because this is a continuation application, copies of all the documents cited above are not enclosed. Only copies of those documents not previously cited against the parent case are included. It is respectfully requested that these documents be: (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent which may issue on this application. Applicant requests that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

An early and favorable action is respectfully requested.


Respectfully submitted,



Michael E. Shanahan
Applicant
Customer No. 32850
P.O. Box 381
Nyack, N.Y., 10960

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Alexandria, VA 22313-1450 on

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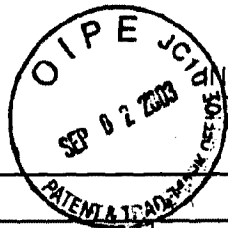

Signature of Person Signing

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
MES/002 CON II

SERIAL NO.
10/603,271



INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
Michael E. Shanahan

FILING DATE
June 24, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,866,766	09/89	Mitzlaff	379	374	
	4,868,561	09/89	Davis	340	825.44	
	5,414,444	05/95	Britz	345	156	
	5,414,751	05/95	Yamada	379	58	
	5,452,354	09/95	Kyronlahti et al.	379	375	
	5,461,666	10/95	McMahan et al.	379	67	
	5,572,571	10/96	Shirai	379	58	
	5,583,763	12/96	Atcheson et al.	364	551.01	
	5,600,712	02/97	Hanson et al.	379	142.06	
	5,606,597	02/97	Newland	379	61	
	5,612,682	03/97	DeLuca et al.	340	825	
	5,724,411	03/98	Eisdorfer et al.	379	93.23	
	5,732,216	03/98	Logan et al.	395	200	
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	5,842,124	11/98	Kenagy et al.	455	418	
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	5,907,604	05/99	Hsu	379	142.06	
	5,933,328	08/99	Wallace et al.	361	737	
	5,940,775	08/99	Kim	455	567	
	5,948,059	09/99	Schulhof et al.	395	200	
	5,952,918	09/99	Ohayon	340	539	
	5,953,408	09/99	Blanvillain et al.	379	374	
	5,987,323	11/99	Huotari	455	433	
	6,075,998	06/00	Morishima	455	567	
	6,091,947	07/00	Sumner	455	413	
	6,140,568	10/00	Kohler	84	616	
	6,101,242	08/00	McAllister et al.	379	201.02	
	6,122,526	09/00	Parluski et al.	455	556	

EXAMINER

DATE CONSIDERED

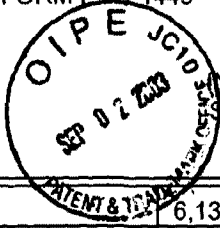
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
MES/002 CON II

SERIAL NO.
10/603,271



INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
Michael E. Shanahan

FILING DATE
June 24, 2003

GROUP

Number	Date	Author	Pages	Pages	Pages
6,137,525	10/00	Lee et al.	348	14.02	
6,138,006	10/00	Foti	455	414	
6,219,413	02/01	Burg	370	352	
6,222,838	04/01	Sparks et al.	370	352	
6,226,532	05/01	Ball et al.	704	270	
6,229,990	05/01	Toshida	455	69	
6,243,375	06/01	Spiecher	370	352	
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6,389,124	05/02	Schnarel et al.	379	142.01	
6,483,531	11/02	Ryu	348	14.01	
6,496,692	12/02	Shanahan	455	418	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Vazvan WO 00/36857 June 2000
	PCT Search Report PCT/US00/32920, Mar. 20, 2002
	SGS Thompson Microelectronics ST 5092 Data Sheet pp. 1-29

EXAMINER _____ DATE CONSIDERED _____

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



MES/002 CON III

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael E. Shanahan

Serial No. : 10/603,271 Confirmation No.:

Filed: : June 24, 2003

For : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC
DEVICES

Group Art Unit : Not Yet Assigned

Examiner : Not Yet Assigned

August 27, 2003

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

PRELIMINARY AMENDMENT I

Sir:

Before publishing and examining this patent application, please amend the application as indicated on the following pages:

09/02/2003 SFELEKE1 00000068 10603271

01 FC:2202

81.00 DP

In the Claims

Please cancel claim 1 and add claims 2-31 as indicated below.

1. (Canceled)

2. (New) A system for providing a polyphonic audio file to a wireless telephone for use as an indicia of an incoming communication, the system comprising:

a remote computer with access to a database of polyphonic audio files suitable for downloading to the wireless telephone wherein the remote computer is configured to:

provide a list of polyphonic audio files in the database to a user of the wireless telephone when the user requests the list of polyphonic audio files;

allow the user of the wireless telephone to browse the list of polyphonic audio files;

allow the user of the wireless telephone to select a desired polyphonic audio file from the list of polyphonic audio files; and

allow the user of the wireless telephone to optionally download a selected polyphonic audio file into the wireless telephone for future use as an indicia of an incoming communication;

wherein the system is configured to confirm the selected polyphonic audio file has been properly received by the wireless telephone.

3. (New) The system of claim 2 wherein the remote computer is further configured to allow the user of the wireless telephone to search the database of polyphonic audio files for a certain polyphonic audio file using title or description information.

4. (New) The system of claim 2 further configured to allow the user of the wireless telephone to review the selected polyphonic audio file before downloading the selected polyphonic audio file into a programmable memory in the wireless telephone.

5. (New) The system of claim 4 further configured to provide the user of the wireless telephone with the option of downloading the selected polyphonic audio file into a programmable memory in the wireless telephone after reviewing the selected polyphonic audio file.

6. (New) The system of claim 5 further configured to provide the user of the wireless telephone with the option of editing the selected polyphonic audio file before programming the selected polyphonic audio file into the programmable memory in the wireless telephone.

7. (New) The system of claim 2 wherein the remote computer is further configured to provide a plurality of lists of polyphonic audio files for browsing by the user of the wireless telephone.

8. (New) The system of claim 2 wherein the database is configured to include polyphonic audio files selected from the group comprising MP3, MPEG, or WAV files.

9. (New) The system of claim 2 wherein the database is configured to include polyphonic MIDI audio files.

10. (New) The system of claim 2 configured to provide copyright protection for the database of polyphonic audio files to help prevent unauthorized distribution of polyphonic audio files downloaded by the user of the wireless telephone.

11. (New) The system of claim 2 further configured to coordinate downloading of the selected polyphonic audio file such that the user of the wireless telephone is informed when the wireless telephone has insufficient available memory capacity to successfully download the selected polyphonic audio file.

12. (New) A method for providing a polyphonic audio file to a wireless telephone for use as an indicia of an incoming communication, the method comprising:

providing a database of polyphonic audio files suitable for downloading to the wireless telephone;

providing a list of polyphonic audio files in the database to a user of the wireless telephone when the user requests the list of polyphonic audio files;

allowing the user of the wireless telephone to browse the list of polyphonic audio files;

allowing the user of the wireless telephone to select a desired polyphonic audio file from the list of polyphonic audio files;

allowing the user of the wireless telephone to optionally download a selected polyphonic audio file into the wireless telephone for future use as an indicia of an incoming communication; and

confirming the selected polyphonic audio file has been properly received.

13. (New) The method of claim 12 further comprising allowing the user of the wireless telephone to search the database of polyphonic audio files for a certain polyphonic audio file using title or description information.

14. (New) The method of claim 12 further comprising allowing the user of the wireless telephone to review the

selected polyphonic audio file before downloading the selected polyphonic audio file into a programmable memory in the wireless telephone.

15. (New) The method of claim 14 further comprising providing the user of the wireless telephone to with the option of downloading the selected polyphonic audio file into a programmable memory in the wireless telephone after reviewing the selected polyphonic audio file.

16. (New) The method of claim 15 further comprising providing the user of the wireless telephone with the option of editing the selected polyphonic audio file before programming the selected polyphonic audio file into the programmable memory in the wireless telephone.

17. (New) The method of claim 12 further comprising providing a plurality of lists of polyphonic audio files for browsing by the user of the wireless telephone.

18. (New) The method of claim 12 further comprising storing polyphonic audio files in the database including those selected from the group comprising MP3, MPEG, or WAV files.

19. (New) The method of claim 12 further comprising storing polyphonic audio files in the database including polyphonic MIDI audio files.

20. (New) The method of claim 12 further comprising providing copyright protection for the database of polyphonic audio files to help prevent unauthorized distribution of polyphonic audio files downloaded by the user of the wireless telephone.

21. (New) The method of claim 12 further comprising coordinating downloading of the selected polyphonic audio file such that the user of the wireless telephone is informed when the wireless telephone has insufficient available memory capacity to successfully download the selected polyphonic audio file.

22. (New) An Internet site that allows a user of a wireless telephone to browse and select a polyphonic audio file that may be downloaded into a wireless telephone for use as an indicia of an incoming communication, the Internet site comprising:

a database of polyphonic audio files suitable for downloading to the wireless telephone wherein the Internet site is configured to:

provide a list of polyphonic audio files in the database to the user of the wireless telephone when the user of the wireless telephone requests the list of polyphonic audio files;

allow the user of the wireless telephone to

browse the list of polyphonic audio files;

allow the user of the wireless telephone to select a desired polyphonic audio file from the list of polyphonic audio files; and

allow the user of the wireless telephone to optionally download a selected polyphonic audio file into the wireless telephone for future use as an indicia of an incoming communication.

23. (New) The Internet site of claim 22 configured to operate in conjunction with a distribution computer to confirm the selected polyphonic audio file has been properly received by the wireless telephone.

24. (New) The Internet site of claim 22 further configured to allow the user of the wireless telephone to search the database of polyphonic audio files for a certain polyphonic audio file using title or description information.

25. (New) The Internet site of claim 22 further configured to operate in conjunction with a distribution computer to allow the user of the wireless telephone to review the selected polyphonic audio file before downloading the selected polyphonic audio file into a programmable memory in the wireless telephone.

26. (New) The Internet site of claim 25 further configured to operate in conjunction with a distribution computer to provide the user of the wireless telephone with the option of downloading the selected polyphonic audio file into a programmable memory in the wireless telephone after reviewing the selected polyphonic audio file.

27. (New) The Internet site of claim 22 further configured to provide a plurality of lists of polyphonic audio files for browsing by the user of the wireless telephone.

28. (New) The Internet site of claim 22 wherein the database is configured to include polyphonic audio files selected from the group comprising MP3, MPEG, or WAV files.

29. (New) The Internet site of claim 22 wherein the database is configured to include polyphonic MIDI audio files.

30. (New) The Internet site of claim 22 configured to operate in conjunction with a distribution computer to provide copyright protection for the database of polyphonic audio files to help prevent unauthorized distribution of polyphonic audio files downloaded by the user of the wireless telephone.

31. (New) The Internet site of claim 22 configured to operate in conjunction with a distribution computer to coordinate downloading of the selected polyphonic audio file such that the user of the wireless telephone is informed when the wireless telephone has insufficient available memory capacity to successfully download the selected polyphonic audio file.

REMARKS

These new claims more particularly point out and define the invention. Support for these claims can be found in various portions of the specification and drawings. No new matter has been added as a result of this amendment. An early and favorable action on this patent application is requested.

Respectfully submitted,




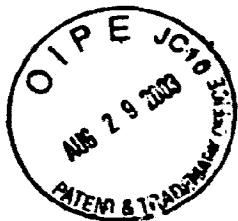
Michael E. Shanahan
Applicant
Customer No. 32850
P.O. Box 381
Nyack, N.Y. 10960

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

August 27, 2003

Lillian Garcia


Signature of Person Signing



REV. 01/03
Small Entity

Docket No. MES/002 CON III

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant : Michael E. Shanahan
Application No. : 10/603,271 Confirmation No.:
Filed : June 24, 2003
For : METHODS AND APPARATUSES FOR PROGRAMMING USER-
DEFINED INFORMATION INTO ELECTRONIC DEVICES
Group Art Unit : Not Yet Assigned
Examiner : Not Yet Assigned

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

TRANSMITTAL LETTER

Sir:

Transmitted herewith: a Preliminary Amendment;
 a Declaration; a Supplemental Information Disclosure
Statement; substitute specification; an Associate Power
of Attorney; formal drawings; to be filed in the above-
identified patent application.

FEE FOR ADDITIONAL CLAIMS

- A fee for additional claims is not required.
 A fee for additional claims is required.

The additional fee has been calculated as shown below:

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE		EXTRA FEES
TOTAL CLAIMS	29	-	20	*	=	9	X \$9	=	\$ 81.00
INDEPENDENT CLAIMS	3	-	3	**	=		X \$42	=	\$ 0.00
FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM							+ \$140	=	\$0.00

* If less than 20, insert 20. TOTAL \$ 81.00
 ** If less than 3, insert 3.

A check in the amount of \$ 81.00 is transmitted herewith.

EXTENSION FEE

The following extension is applicable to the Response filed herewith; \$55.00 extension fee for response within first month pursuant to 37 C.F.R. § 1.17(a)(1); \$205.00 extension fee for response within second month pursuant to 37 C.F.R. § 1.17(a)(2); \$465.00 extension fee for response within third month pursuant to 37 C.F.R. § 1.17(a)(3); \$725.00 extension fee for response within fourth month pursuant to 37 C.F.R. § 1.17(a)(4).

A check in the amount of \$55.00; \$205.00; \$465.00; \$720.00; in payment of the extension fee is transmitted herewith. A duplicate copy of this transmittal letter is transmitted herewith.

SUPPLEMENTAL IDS FEE

[] A check in the amount of \$ 0.00 is transmitted herewith in payment of the Supplemental IDS fee pursuant to 37 C.F.R. § 1.17 (p).



Michael E. Shanahan
Applicant
Customer No. 32850
P.O. Box 381
Nyack, N.Y., 10960

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Alexandria, VA 22313-1450 on

August 27, 2003
Lillian Garcia


Signature of Person Signing

10/603271

PATENT APPLICATION FEE DETERMINATION RECORD

Effective January 1, 2003

Application or Docket Number

MFS/002 CONT III

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS		
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	minus 20= *	—
INDEPENDENT CLAIMS	minus 3 = *	—
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE OR OTHER THAN SMALL ENTITY

RATE	FEE		RATE	FEE
BASIC FEE	375.00	OR	BASIC FEE	750.00
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL	375	OR	TOTAL	

CLAIMS AS AMENDED - PART II

829-03

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	* 30	Minus ** 20	= 10
Independent	* 3	Minus *** 3	= 0
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	18
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+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus **	=
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FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	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\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
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.

04772 U.S. PTO
06/24/03

Rev. 01/03
PATENTS
Modified PTO 1082
For A Small Entity

21908 U.S. PTO
10/603271
06/24/03

Attorney Docket No. MES/002 CON III

Applicant : Michael E. Shanahan
For : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC
DEVICES

EXPRESS MAIL CERTIFICATION

"Express Mail" mailing label number EV132183444US

Date of Deposit June 24, 2003

I hereby certify that this transmittal letter and the other papers and fees identified in this transmittal letter as being transmitted herewith are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and are addressed to the Hon. Commissioner for Patents, P.O. Box 1450, Alexandria VA, 22231-1450.

MICHAEL SHANAHAN
Michael Shanahan

TRANSMITTAL LETTER FOR
CONTINUATION PATENT APPLICATION

Sir:

Transmitted herewith for filing are the
[X] specification; [X] claims; [X] abstract; [X] declaration;
[X] a verified statement claiming small entity status; [X] an
information disclosure statement; for the above-identified
patent application.

Also transmitted herewith are:

13 sheets of:

Formal drawings.

Informal drawings. Formal drawings will be filed during the pendency of this application.

An assignment of the invention to:

A check in the amount of \$40.00 to cover the recording fee.

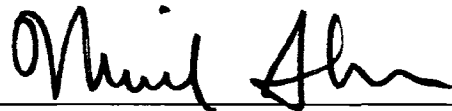
An associate power of attorney.

A certified copy of the priority document, _____ application, No. _____, filed _____

The filing fee has been calculated as shown below:

FOR	NUMBER FILED	NUMBER EXTRA	RATE	FEE
BASIC FEE				\$375.00
TOTAL CLAIMS	1 - 20 =	0	x \$ 9 = \$	0.00
INDEPENDENT CLAIMS	1 - 1 =	0	x \$ 42 = \$	0.00
<input type="checkbox"/> A MULTIPLE DEPENDENT CLAIM			+ \$ 140 = \$	0.00
			TOTAL	\$375.00

A check in the amount of \$ 375.00 in payment of the filing fee is transmitted herewith.



Michael E. Shanahan
Applicant
Customer No. 32850
P.O. Box 381
Nyack, N.Y., 10960
Tel.: (914) 261-1160

5 METHODS AND APPARATUSES FOR PROGRAMMING
 USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

 This application is a continuation of United
States Patent Application 09/518,846 filed March 3, 2000
which claims priority from United States Provisional
Application 60/169,158 filed December 6, 1999.

10

Background of the Invention

 This application relates to electronic devices,
and more particularly to a programming apparatus that
allows users to program user-defined information into
15 their electronic device.

 There are many types of electronic devices
available to consumers today that have the ability to
produce both audio sounds and video displays. Many of
these devices provide users with the ability to select
20 and play a particular piece of audio or video. A
television viewer, for example, may tune to a TV channel
and watch a particular program, or connect a VCR or DVD
player to the television in order to view a specific
program not currently being broadcast. Similarly, an

audio system user may tune a receiver to a particular radio station to hear a certain genre of music, or connect a CD or tape player to the system in order to hear specific pieces of music. In both cases, the audio and video is user-selectable.

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Currently, however, there are many electronic products that offer an audio/video playing capability that are not fully user-programmable. Users of such devices (e.g., wireless or cordless telephones, pagers, personal digital assistants (PDAs), hand-held computers and the like) have to choose from a limited selection of pre-programmed information (e.g., audio clips, video clips or frames, etc.) placed there by the manufacturer. This severely limits the user's ability to customize the device to suit his or her particular taste. Furthermore, most pre-programmed audio tends to be rather generic and can be confusing when a device of a nearby user generates a sound similar to or the same as that of another user's device. Although a programmable memory within many such electronic devices could support user-defined audio, currently, no system exists for programming such information into an electronic device.

The same is true for user-defined video. For example, certain types of user-defined video information, such as video clips, frames, and other digital or analog images could be programmed into an electronic device (e.g., PDA, wireless phone, or any portable display device) and displayed at a time of the user choosing. Although a programmable memory within such a device could support user-defined video, currently, no system exists for programming such information into the device.

Summary Of The Invention

It is therefore an object of the present invention to provide an apparatus that allows a user to

program user-defined audio information into a programmable electronic device.

It is a further object of the present invention to provide an apparatus that allows a user to program user-defined video information into a programmable electronic device.

These and other objects of the present invention are accomplished by providing methods apparatuses that allow a user to program user-defined information into his or her electronic device. In one embodiment of the present invention, the programming apparatus includes processing circuitry and first and second communications links. In operation, a user selects a piece of information from a source such as a computer disk drive, the Internet, or a remote database using the first communications link. The programming apparatus may download this information and compare its format with that required by the programmable device to determine format compatibility. If the two formats are compatible, the programming apparatus may download the selected information into the programmable device. If the formats are not compatible, the programming apparatus may convert the downloaded file to a format compatible with that required by the programmable electronic device. The programming apparatus may also provide the user with an opportunity to edit the converted file. Once editing is complete, the resulting file may then be programmed into the programmable device for subsequent use.

In another aspect of the invention, a user may send customized information such as an audio or video file called a "signature" when placing a telephone call. This feature allows a user to select and send a signature file to the person receiving the telephone call such that the person receiving the call is alerted by that file.

Brief Description Of The Drawings

The above and other objects and advantages of the present invention will be apparent upon consideration of the following detailed description, taken in
5 conjunction with the accompanying drawings, in which like reference characters refer to like parts throughout, and in which:

FIG. 1 is a generalized block diagram of a system for programming user-defined information into an
10 electronic device in accordance with one embodiment of the present invention.

FIG. 2 is a schematic diagram of a programmer constructed in accordance with one possible embodiment of the present invention.

15 FIG. 3 shows a computer based implementation of a programmer constructed in accordance with one embodiment of the present invention.

FIG. 4a shows an alternate embodiment of a computer based implementation of a programmer constructed
20 in accordance with the principles of the present invention.

FIG. 4b shows an alternate network embodiment of the computer based implementation in shown in FIG. 4a.

25 FIG. 5 illustrates an imbedded implementation of the programmer shown in FIG. 2.

FIG. 6 shows yet another embodiment of a computer based implementation the programmer in shown in FIG. 4b.

30 FIG. 7 is a schematic diagram of one possible embodiment of a wireless telephone that can receive and play user-defined audio in accordance with one aspect of the present invention.

FIGS. 8-9 show a flow chart illustrating some of the steps involved in programming user-defined

information into an electronic device in accordance with one embodiment of the present invention.

FIGS. 10-12 show a flow chart illustrating some of the steps involved in sending and receiving signature information in accordance with one embodiment of the present invention.

Detailed Description of the Invention

FIG. 1 shows a block diagram of a system 10 for programming user-defined information (e.g., audio, video, or Internet access information, etc.) into an electronic device in accordance with one embodiment of the present invention. As shown in FIG. 1, system 10 generally includes a programmable electronic device 20, a device programmer 30, and a source 50. Programmer 30 is connected to source 50 via link 31, and to device 20 via link 32.

Programmable device 20 may be any portable electronic device (e.g., a wireless telephone, a pager, a handheld computer, personal digital assistant (PDA), etc.). Device 20 may also be any device which integrates some or all of the functions of such devices into one device. For example, device 20 may be a PDA capable of making wireless telephone calls, a PDA with paging functions, a wireless telephone with some PDA or paging functions, a handheld or notebook computer with some or all of the functions of a PDA, a pager, and a telephone, etc.

In FIG. 1, links 31 and 32 may be, for example, communications links (e.g., serial ports, parallel ports, universal serial buses (USB), RS232, GPIB, etc.), modems (e.g., any suitable analog or digital modems, cellular modems, or cable modems), a network interface link (e.g., Ethernet links, token ring links, etc.), wireless communications links (e.g., cellular telephone links,

wireless Internet links, infrared links, etc.), or any other suitable hard-wired or wireless Internet or communications links.

Source 50 may be any device or combination of devices suitable for providing user-defined information to programmer 30 (e.g., the Internet, an optical disc player (CD, DVD), a cassette player, a VCR, a digital camera, or any suitable storage device containing computer programs or files, etc.).

In operation, a user may choose certain information, such as Internet configuration information, an audio sample of a popular song, a video clip or frame, etc., that is available from source 50 and transfer it to programmer 30. Programmer 30 may then process this information into a suitable format (or may simply route the information if no format conversion is required), and program it into a programmable memory within device 20 (not shown). Device 20 may then retrieve this information when a certain event occurs (e.g., when receiving an incoming telephone call, browsing the Internet, or when programmed to do so by a user, etc.).

Programmer 30 may also coordinate or perform certain functions related to the routing and storing of information within device 20. For example, programmer 30 may communicate with (or simply search) device 20 to find available memory locations in which to store the user-defined information. Programmer 30 may also communicate with device 20 to determine which format the incoming information should be converted to so that the information is compatible with the downloading requirements of device 20. For audio files, this may include, but is not limited to, converting to or from any of the following format types: analog; MIDI; MPEG; PCM; Windows Media Audio Code (WMA); WAV; or Adaptive Transform Acoustic Coding (ATRAC), or to or from any

other suitable audio format, etc. For video files, this may include, but is not limited to, converting to or from any of the following format types: analog; JPEG; MPEG; GIF; AVI, or to or from any other suitable video format, etc. Text files may include, for example, HTML files, Wireless Markup Language (WML) files, WordPerfect™ files, Microsoft Office™ files, or any other suitable text files.

If multiple blocks of information are being programmed into device 20, programmer 30 may "tag" the different blocks so that device 20 and/or a user may distinguish among the different blocks stored therein. After the information has been provided, programmer 30 may communicate with device 20 to confirm that the information has been correctly received.

A more detailed diagram of one possible embodiment of programmer 30 is illustrated in FIG. 2. As illustrated, programmer 30 may include a transducer 25, a processor 34, a programmable memory 36, an analog-to-digital (A/D) converter 38, signal processing circuitry (SPC) 40, an output buffer 42, and an input buffer 44. Generally speaking, processor 40 controls the operation of programmer 30. Programmer 30 may be configured to receive and process both analog and digital signals. It may also acquire acoustic signals via transducer 25 (if installed).

In operation, programmer 30 may download certain user-selected information from source 50 via link 31. This information, such as audio or video files, in the form of electronic signals, may be received from link 31 and directed to input buffer 44. As mentioned above, these signals may need to be processed in order to be compatible with the format required by programmable device 20. For example, if analog input signals are received at input buffer 44 and device 20 requires a

digital format, the analog signals may be routed to A/D converter 38 for conversion into a suitable digital form (e.g., into PCM, PAM, etc.). Further processing into another digital format (e.g., MP3, ATRAC, WMA, etc.) may be accomplished by routing the converted signals to SPC 40 or processor 34 (discussed in more detail below). On the other hand, if digital input signals are received at input buffer 44 and device 20 requires analog signals, the digital signals may be routed to SPC 40 or to a dedicated digital-to-analog (D/A) converter (not shown) for conversion to the analog domain.

Processor 34 may route incoming signals from source 50 to memory 36, SPC 40, or directly to output buffer 42 depending on the circumstances. For example, some or all of the input signals received from source 50 may require further processing to meet the downloading specifications of device 20. In this case, the incoming signals that require processing may be routed to SPC 40 for such processing. For example, incoming MP3 or WMA signals may be routed to SPC 40 and converted to ATRAC format (or vice-versa). Once this conversion is complete, the resulting information may be stored in memory 36, or routed to output buffer 42 for programming in device 20. Input signals that do not require a format change may be routed directly from input buffer 44 to memory 36, or output buffer 42. Although not shown in FIG. 2, programmer 30 preferably has a display screen and a data input device, such as a keyboard associated with it so that a user may, among other things, browse and select files, monitor file transfers, and ensure that device 20 has properly received the selected files.

In one embodiment of the present invention, SPC 40 may be programmable so that the conversion and processing protocols contained therein may be periodically updated.

Furthermore, in some embodiments, processor 34 may be programmed via software routines in programmable memory 36 to perform some or all of the functions of SPC 40. In this case, an SPC of reduced processing capacity may be used or SPC 40 may be removed altogether from programmer 30.

Audio signals may also be acquired and processed by programmer 30. Transducer 25 may acquire an acoustic signal from a stereo or other audio source and convert it to an electrical signal. This electrical signal may then be processed in a way similar to the way the above-described analog signal was processed. That is, the electrical signal may be routed to A/D converter 38 and/or SPC 40 and then stored in memory 36 or output buffer 42, for example.

It will be understood that the generalized system shown in FIG. 1 may be implemented in many ways. For example, as shown in FIG. 3, system 100 may be implemented using a computer-based architecture. In this case, some or all of programmer 30 may be installed in or connected to a computer, such as a personal computer. For example, in FIG. 3, programmer 30 may be installed in an expansion slot and connected to an interface bus such as an ISA or PCI bus (not shown) in computer 60. In this configuration, programmer 30 may receive user-defined information via the interface bus in computer 60 and operate as described above with the interface bus acting as part of link 31. Some or all of programmer 30 may also be external to computer 60 and connected to it via a link similar to link 31 (not shown). Furthermore, in certain embodiments, some of the functions of programmer 30 may be distributed between computer 60 and programmer 30. For example, programmer 30 may be constructed such that it partially or fully relies on the processing capability of computer 60. In this type of

embodiment, programmer 30 may be constructed without processor 34 or with a processor of reduced capacity. Programmer 30 may also be constructed such that it partially or fully relies on the memory capacity of computer 60. Moreover, signal processing functions such as those performed by SPC 40 could also be fully or partially carried out by circuitry or software resident within computer 60.

As shown in FIG. 3, computer 60 may be connected to Internet 80 through link 70. Link 70 may be, for example, a modem (e.g., any suitable analog or digital modem, cellular modem, or cable modem), a network interface link (e.g., an Ethernet link, token ring link, etc.), a wireless communications link (e.g., a wireless telephone link, a wireless Internet link, an infrared link, etc.), or any other suitable hard-wired or wireless communications link. With this configuration, a user may download information from Internet 80 (e.g., using electronic distribution (ED) services) and/or from a disc drive or other devices (not shown) connected to computer 60 and program that information into device 20 (via programmer 30 and link 32).

It will be understood, of course, that computer 60, with a suitable communications link, such as link 32, may be programmed with software to function as programmer 30. In this way, a user may take advantage of the fact that many of the components of programmer 30 are resident within computer 60. For example, computer 60 may contain a processor, such as processor 34 and programmable memory circuitry such as memory 36. Computer 60 may also include signal processing circuitry such as SPC 40, or software that instructs processor 34 to perform the necessary format conversions. Computer 60 may include circuitry similar to input buffer 44 and output buffer 42. Such circuitry may include random

access memory (RAM) or cache memory in computer 60. Computer 60 also may include internal or external A/D conversion circuitry, such as A/D converter 38, and an internal or external transducer 25.

5 As shown in FIG. 4a, computer 60, programmed to function as programmer 30, may be connected to Internet 80 through link 70 and to device 20 through link 32. This arrangement allows a user to select information from Internet 80 or from a storage device
10 connected to computer 30 (not shown) for programming into device 20.

 Using the generalized system shown in FIG. 4a, user-defined information may be programmed into device 20 in many ways. For example, computer 60 may be part of a
15 communications network 95, such as a telephone network, that provides Internet and/or telephone access to programmable device 20 (shown in FIG 4b). Communications network 95 may be provide hard-wired or wireless telephone or Internet access (or combination of the two).
20 This arrangement is generally illustrated in FIG. 4b as architecture 200, in which computer 90, for the sake of clarity, represents computer 60, configured at least in part, to function as programmer 30.

 With this configuration, a user of device 20 may
25 access Internet 80 and select information for downloading into device 20. It will be understood, however, that in this implementation, at least a portion of computer 90 is configured to function as programmer 30, and that computer 90 may continue to perform other functions such
30 as communicating with network computers 82, communicating with Internet 80, interfacing with external telephone network 84, and coordinating wireless Internet and telephone access etc., in addition to performing some or all of the above-described programming functions.

In operation, computer 90 may communicate with device 20 to determine its format requirements and perform any conversions necessary to make user-selected information compatible with those requirements. This
5 allows a user to select information, such as audio and/or video, that is available on the Internet or on a remote network computer, and program that information into device 20. This may be accomplished via communications link 33 (which may be any type of link previously
10 described as suitable for link 32). For example, a user may wish to download video images from an Internet site to a hand-held computer, such as a PDA, or to a wireless telephone. The user may communicate with computer 90 via a wireless link 33 and select information from
15 Internet 80 using an Internet browser installed in device 20. Such a browser may be a Wireless Application Protocol (WAP) compliant browser for supporting wireless Internet services. Computer 90 ensures format compatibility of the information, transmits the
20 information to device 20, and may communicate with device 20 to confirm that the selected information has been properly received. Device 20 may provide a visual, audio, or tactile output to indicate the requested information has been successfully received.

25 Computer 90 may also coordinate information downloading with respect to the memory capacity of device 20. For example, if the user-selected information exceeds the available memory of device 20, computer 90 may inform the user, via link 33, that the selected
30 information is larger than the available memory. In such an event, the user may be prompted to cancel or modify the information request. In certain instances, however, the user may instruct computer 90 to provide the information in a "scrolling" fashion (*i.e.*, provide it in
35 portions) so that all the requested information may be

reviewed, albeit in sections. This may be particularly desirable in instances where large files, such as video files, are requested.

In some embodiments of the present invention,
5 computer 90 may simply contact a remote computer or Internet site to fulfill requests for audio or video information in a particular format. Such web sites or remote computers may act as virtual "jukeboxes" of video and audio information, containing extensive lists of such
10 information in a variety of formats available for downloading. Using this approach, a user may select a particular piece of information in a certain format from a list displayed on a screen of programmable device 20. Computer 90 may receive this as a request via link 33 and
15 handle the information transfer to device 20. In some embodiments, format selection may be transparent to the user. That is, the user may simply request a piece of information and computer 90 may determine and then request information in a format appropriate for the
20 requesting device.

In another embodiment, a remote computer or Internet site may perform a format conversion of information requested by computer 90 or device 20. For example, a user may access an Internet site or remote
25 computer using communications network 95 and enter a title or description of the desired audio or video information along with format requirements. The remote computer or Internet site may then search the Internet or other databases to find a file that matches the user's
30 description. Once this file is found, the Internet site or remote computer may convert that file to the requested format, (using a system similar to the described above) and provide it to device 20 via computer 90 and/or link 33. It will be understood, of course, that

embodiments such as these are within the scope of the present invention.

If desired, a user may also employ the systems shown in FIGS. 4a and 4b to download remotely stored information such as Internet access information to device 20. For example, a user may have customized bookmarks or web page addresses stored in a remote personal computer or on Internet 80. The user may employ wireless link 32 or 33 to contact that remote computer or Internet site and then download the Internet access information for use in device 20. This feature is desirable because it relieves the user of the burden of having to type in complicated Internet access information from the small keyboard of a wireless telephone or hand-held computer. It also spares the user from having to re-enter customized Internet information that is already present in another location, into their electronic device. Moreover, such a feature is convenient when a user wishes to access information on a remote computer that is not currently available in device 20. For example, a user may wish to view spreadsheet information stored on a remote computer with device 20. Rather than having to download this information from a hard-wired access point, a user may simply employ wireless link 33 (e.g., a wireless modem or Internet connection) to access that remote computer or Internet site and download that information to device 20.

Another feature which may be implemented using the embodiments shown in FIGS. 4a and 4b is a "signature" feature. This allows device 20 to send user-defined information, which may be indicative of the user's personal taste or identity, along with other information when performing certain functions. For example, if a user is placing a wireless telephone call or paging someone with device 20, he or she may select the

signature feature in order to send user-defined audio or video along with, or prior to, that call. A user may accomplish this by browsing through a menu on device 20 that displays available signature options, and by
5 choosing a particular file (not shown). If the user chooses an audio file, for example, device 20 may send that selected audio file when a call or page is placed (or a period of time before the call or page is placed). This audio file may temporarily replace the "ring
10 sequence" of the device receiving the incoming call so that the person receiving the incoming call will be alerted by hearing the audio file sent by the caller. The person receiving the call may be able to discern the identity of the caller or other information from the
15 audio file. After the call is complete, the ring sequence of the receiving device may be returned to its former configuration (either by computer 60 or by the receiving device).

In another embodiment, a user may program certain
20 audio or video files into device 20 that are activated when a certain person calls. For example, a user may program device 20 so that certain signature files are played in response to receiving a characteristic indicative of the caller, such as the caller's telephone
25 number. In this way, a user will be able to identify the caller by the sound and/or display generated by device 20. Users may also program signatures in device 20 to be played at predetermined times. For example, a user (or caller) may program "Happy Birthday"
30 or "Jingle Bells" into device 20 to play on a certain day, or may program device 20 to play a certain signature file at specified time (e.g., as an alarm).

In yet another embodiment, a user, when placing a call, may invoke a menu on device 20, which displays a
35 list of signature files available for the person being

called. This list may be defined by the person receiving the call. For example, the person receiving the call may create a signature file list by selecting certain audio and/or video files and placing them in a database of a remote computer such as computer 90 by using, for example, a personal computer connected to the Internet. In some embodiments, signature files may also be stored in a device 20 of the person receiving the call. In this implementation, a list of signature file names may be stored in computer 90 so that a caller may browse the names of signature files stored in the device of the person receiving the call. Signature files may also be stored in a combination of both computer 90 and device 20.

In some embodiments, the signature information may not necessarily be user-defined. For example, a list of pre-selected signature files may be stored on computer 90 or a remote computer from which a user of device 20 may choose. Such a list may be created by a wireless service provider, an Internet provider, an Internet site, or a manufacturer of the wireless telephone.

With these implementations, the caller may simply select a signature file from the displayed list. The selected file is then sent along with the call by computer 90 (if the selected signature file is stored in computer 90) or associated with the incoming call at device 20 (if the selected signature file is stored in device 20). In some embodiments, the caller may be able to preview signatures before sending them. For example, computer 90 may send the selected signature file to the caller for his or her review.

In systems that have a video capability, a video file containing a video clip or frame may be sent instead of or in addition to the audio sample. This may be accomplished by selecting a video option from a signature

menu and choosing a video file. In this case, the person receiving the call is alerted by seeing or hearing the video clip and/or associated audio. It will be appreciated that a video clip may have its own audio portion associated with it so that the video clip (or frame) by itself would be sufficient to alert the person receiving the incoming call.

The above-described signature feature may be implemented in many ways. In some embodiments, for example, the audio or video signatures may be stored in (the caller's) device 20 and sent along with the outgoing call or page via link 33 and computer 90. In other embodiments, however, the signature information may be stored in computer 90 and associated with the outgoing call when it is processed by computer 90. This type of embodiment may be implemented when it is desired to conserve memory space within device 20. In still other embodiments, signature information may be stored in both device 20 and computer 90. In any case, computer 90 may determine the format requirements of the device receiving the incoming call or page and convert the accompanying signature information into a suitable format.

Another implementation of a system in accordance with this invention may use an architecture 300, which is shown in FIG. 5. Using this arrangement, programmer 30 (or similar circuitry) may be embedded within programmable device 20. User-defined information may be provided to device 20 from source 50 via link 32. Such information may be routed to programmer 30, which may perform some or all of the above-described functions.

If source 50 is an acoustic source, however, link 32 may not be needed. For example, if a user desires to program an acoustic sound into device 20, the user may place a transducer 25, (e.g., a speaker/microphone existing within or external to device 20) near

the acoustic signal source, place device 20 into an "acquisition mode," and record an audio sample. In this case, transducer 25 converts the acoustic signal into an electrical signal, which is provided to programmer 30 for processing and possibly storage within device 20. A visual, audio, or tactile output may be provided by device 20 to indicate a sample has been successfully loaded. A user may employ transducer 25 to acquire and record, for example, a verbal message or sound effect (e.g., laughter, crying, sneezing, etc.) for use as a signature file.

Other embodiments of the present invention may use the embedded architecture of system 400 as shown in FIG. 6. Using this arrangement, user-defined information may be requested by device 20 via link 32 and computer 60. With this approach, a user may select information from Internet 80 or a remote computer and perform any necessary format conversion within device 20.

In addition to selecting user-defined information with programmer 30, a user may customize that information by performing various editing procedures. For example, a user may find an audio track or video clip that suits his or her taste. It may be desired, however, to utilize only a portion of that track or clip. In this case, a user may edit or "sample" a portion of the information to obtain the desired segment. For example, a user may wish to sample a few bars of a popular song and send it along as signature information when making a wireless telephone call. Such editing may be accomplished, for example, by using an application program with programmer 30 or by using known software with computer 60. Furthermore, once the user has edited a particular piece of information, he or she may be given the option to review the piece to ensure it is acceptable. When a user is satisfied with an edited segment, he or she may save it and be given an

opportunity to "name" that segment, so that it may be readily identified later by a user of device 20.

It will be appreciated that various other types of editing procedures are also possible. For example, a user may combine and/or further edit the content of segments of information. This may be accomplished using "cut and paste" routines in an application program. Other types of revisions may include modifying the color or content of a portion of video clip or frame, as well as editing the audio track that accompanies a video clip or frame. It may also include revising or combining audio segments or creating customized audio segments to accompany video clips or frames.

In some instances, a user may wish to download large portions of copyrighted audio or video. To prevent improper usage of such material, programmer 30 may include copyright protection software such as software that conforms with the Secure Digital Music Initiative (SDMI). Generally speaking, this may allow an owner of such material to "check out" a finite number of copies so that unauthorized distribution is prevented.

A schematic diagram of a portion of a wireless telephone 500 that can receive and play user-defined audio and/or video is shown in FIG. 7. As illustrated in FIG. 7, telephone 500 may include antenna 510, receiver/transmitter (R/T) circuit 520, processor 530, communications interface 532, speaker/transducer 540, alerting circuit 550, and optionally, programmer 30 (or similar circuitry).

A user may program information into telephone 500 in several ways. For example, a user may connect telephone 500 to an external programmer 30 (not shown in FIG. 7) via link 32 to program user-defined audio or video in telephone 500 as described above. Processor 530 may route this information to alerting circuit 550 for

storage and subsequent use. Afterwards, the user may configure telephone 500 to play a certain user-defined audio file stored in alerting circuit 550 when receiving an incoming call. Thus, when a call is received, processor 530 may instruct alerting circuit 550 to play the selected file through speaker 540. If a video file is chosen, processor 530 may instruct alerting circuit 550 to play the user-selected video file through a display screen on the telephone (not shown). Alerting circuit 550 may include programmable memory circuitry for storing user-defined information and driver circuitry (not shown) for driving speaker 540 and/or a display screen on telephone 500.

Telephone 500 may also receive user-defined information from communications network 95 via link 33 and antenna 510. With this implementation, user defined information, such as a signature file, may be received by antenna 510 and demodulated with R/T circuit 520. Processor 530 may then route the demodulated signals to an appropriate location. In the case of a signature file, for example, processor 530 may check the format of the incoming file to ensure it is compatible with the format required by alerting circuit 550. If the format is compatible, the incoming file may be routed to alerting 550 for storage and subsequent use or to speaker 540 for immediate playing. If the format is not compatible, the incoming file may be routed to programmer 30 for conversion. After conversion is complete, processor 530 may instruct programmer 30 to route the converted file to speaker 540 or alerting circuit 550. If a video file was sent as a signature file, processor 530 may instruct alerting circuit 550 to play the user-selected video file through a display in telephone 500 (not shown). In some embodiments,

speaker 540 may be an enhanced performance speaker (as compared to those currently installed in telephones) with a capacity for generating a full range of audio sounds. Moreover, it will be understood that circuitry similar to that shown in FIG. 7 may be installed for use in other communication devices such as PDA's, pagers, notebook computers, etc.

Some of the steps involved in programming user-defined information into programmable device 20 as described herein are illustrated in the flow chart of FIGS. 8-9. It will be understood that although programmer 30 is used in the following description, computer/programmer 90 may also perform some or all of these (or similar) steps.

At step 100 in FIG. 8, programmer 30 allows the user to browse information for potential programming into device 20. As mentioned above, this may include browsing audio/video information on the Internet, or on a hard, floppy, or optical disc drive of a computer. At step 102, the user may choose certain files for programming into device 20. Next, at step 104, programmer 30 may determine the format requirements of device 20 and compare the format of the selected files to that specified by device 20. This may be accomplished, for example, by electronically polling device 20. At step 105, if the formats are compatible, programmer 30 may go directly to step 108. If the formats are not compatible, at step 106, programmer 30 may convert the selected files to a format compatible with device 20. In some embodiments, the user may be prompted to confirm that the conversion should be performed. In addition, programmer 30 may also prompt the user to supply a name for the converted file. Moreover, if the selected file cannot be converted, programmer 30 may so inform the user.

Next, programmer 30 provides the user with an option of editing the contents of the resulting files at step 108. If desired, the user may first review the converted file to determine if editing is warranted. At
5 step 109, if the user chooses not to edit the file, programmer 30 may go directly to step 112 (shown in FIG. 9). If the user decides to edit the file, he or she may do so at step 110. When finished editing, the user may be given the option of reviewing the file at
10 step 111 by returning to step 108 to determine whether the file is acceptable or requires further revision. Programmer 30 may alternate between steps 108-110 until the user is satisfied with the resulting file. When editing is complete, programmer 30 provides the user with
15 the option of programming the file into device 20 at step 112. At this point, (step 113) the user may exit the program at step 114 or return to step 100 to browse more information.

It will be understood that these steps are merely
20 illustrative, and are not meant to be comprehensive or necessarily performed in the order shown. For example, it may be desired to edit a file already stored in device 20. In this case, a user may bypass steps 100-106 and go directly to step 108. In some embodiments,
25 selected files may be revised before converting them to format compatible with device 20. This may be desirable when the file's original format facilitates the editing process. In addition, programmer 30 may determine the format requirements of device 20 at any time before the
30 conversion occurs. A user may also name or revise the name of a selected file at any time.

Some of the steps involved in sending signature files to programmable device 20 as described herein are illustrated in the flow chart of FIGS. 10-12.

At step 150 in FIG. 10, device 20 allows the user to browse signature files for potential transmission to device 20 of the person receiving the call (hereinafter the "receiver"). At step 150, the user may be provided with option of creating a new signature file if a suitable signature file not found on the list. At step 154 the user may select a signature file. Once a signature file is selected, computer 90, at step 156, may determine the location of the selected signature file. Such locations may include, but are not limited to, the caller's device 20, the receiver's device 20, or computer 90.

If computer 90 determines that the signature file is located in the user's device 20 (*i.e.*, the caller's device 20) computer 90 may retrieve that file from the user's device 20 at step 158. Next, computer 90 may compare the format requirements of the receiver's device 20 with the format of the retrieved file to determine if they are compatible at step 160. If the formats are compatible, computer 90 may go directly to step 164. If the formats are not compatible, computer 90 may convert the signature file to an acceptable format at step 162. At step 164, the signature file may be sent along with, or somewhat before, the outgoing call. At step 166, the receiver's device 20 may replace its ring sequence with the signature file and play the signature file. At step 167, the receiver's ring sequence may be returned to its original setting and the program may exit.

If, however, the signature file is located in computer 90 (step 156), computer 90 may retrieve that file at step 168 (FIG. 11). Next, computer 90 may compare the format requirements of the receiver's device 20 with the format of the retrieved file to determine if they are compatible at step 170. If the

formats are compatible, computer 90 may go directly to step 174. If the formats are not compatible, computer 90 may convert the signature file to an acceptable format at step 172. At step 174, the signature file may be sent
5 along with, or somewhat before, the outgoing call. At step 176, the receiver's device 20 may replace its ring sequence with the signature file and play the signature file. At step 177 the receiver's ring sequence may return to its original setting and the program may exit.

10 On the other hand, if computer 90 determines at step 156 that the signature file is located in the receiver's device 20, computer 90 may transmit an indicia indicative of the selected file to the receiver's device 20 along with the outgoing call at step 178
15 (FIG. 12). Next, the receiver's device 20 may associate a signature file that corresponds to the indicia, replace its ring sequence with that signature file, and play that signature file at step 180. At step 182, the receiver's ring sequence may be returned to its original setting and
20 the program may exit. It is assumed for the purposes of this illustration that signatures files stored in the receiver's device 20 are already in a suitable format. However, if this is not the case, a conversion step may be added between step 178 and step 180 (not shown).

25 It will be understood that these steps are merely illustrative, and are not meant to be comprehensive or necessarily performed in the order shown. For example, computer 90 may determine the format requirements of device 20 at any time before the conversion occurs.

30 Thus, it is seen that a device for programming user-defined information into an electronic device is provided. The programmer allows a user to program customized information, such as audio, video, or Internet access information into his or programmable device. This
35 allows a user to, among other things, customize his or

her device to suit the user's particular taste. It will be understood that the foregoing is only illustrative of the principles of the invention, and that various modifications can be made by those skilled in the art without departing from the scope and spirit of the invention. For example, it is not necessary that programmable memory within device be a fixed programmable memory. That is, a removable memory module may be programmed externally from a given programmable device and subsequently installed in that device. Furthermore, the many aspects of the invention are suitable for use with hard-wired, cordless, or wireless communications devices. For example, user-defined audio and video and signature files may be used with hard-wired or cordless telephone systems. Accordingly, such embodiments will be recognized as within the scope of the present invention.

Persons skilled in the art will appreciate that the present invention can be practiced by other than the described embodiments, which are presented for purposes of illustration rather than of limitation, and the present invention is limited only by the claims which follow.

I Claim:

1. A telecommunications system for providing an audio file to a wireless telephone, the system comprising:

a database for storing a plurality of audio files for downloading to the wireless telephone, the database operating independently of a communications network that provides wireless telephone service to the wireless telephone; and

a communications link that provides access to the database such that a user of the mobile telephone may select and retrieve one of the audio files from the database for programming into the wireless telephone for future use as an indicia of an incoming communication.

MES/002 CON III

METHODS AND APPARATUS FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

Abstract of the Invention

5 A device for programming user-defined information
into an electronic device is provided. The programmer
allows a user to program customized information, such as
user-selected audio, video, or Internet access
information into his or her programmable device. Such
electronic devices include wireless telephones, pagers,
10 and personal digital assistants. The programmer allows a
user to, among other things, customize the device to suit
his or her particular taste.

10

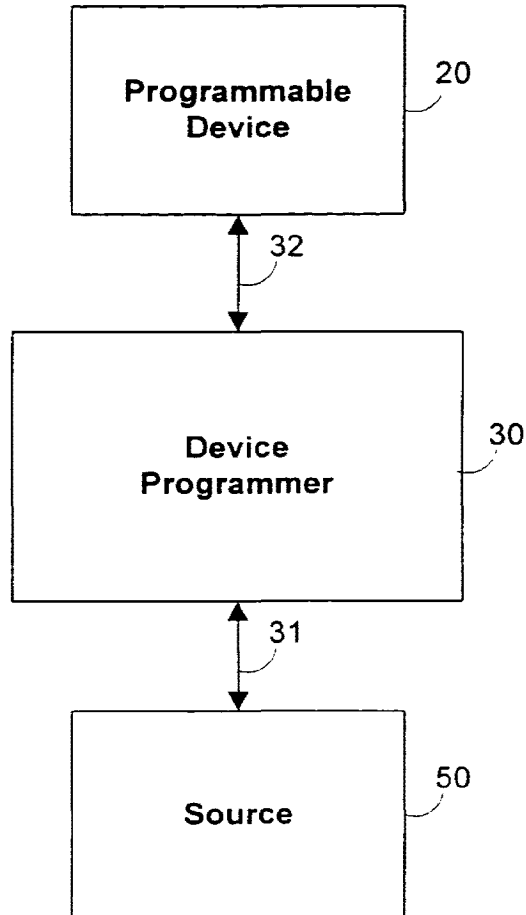


FIG. 1

30

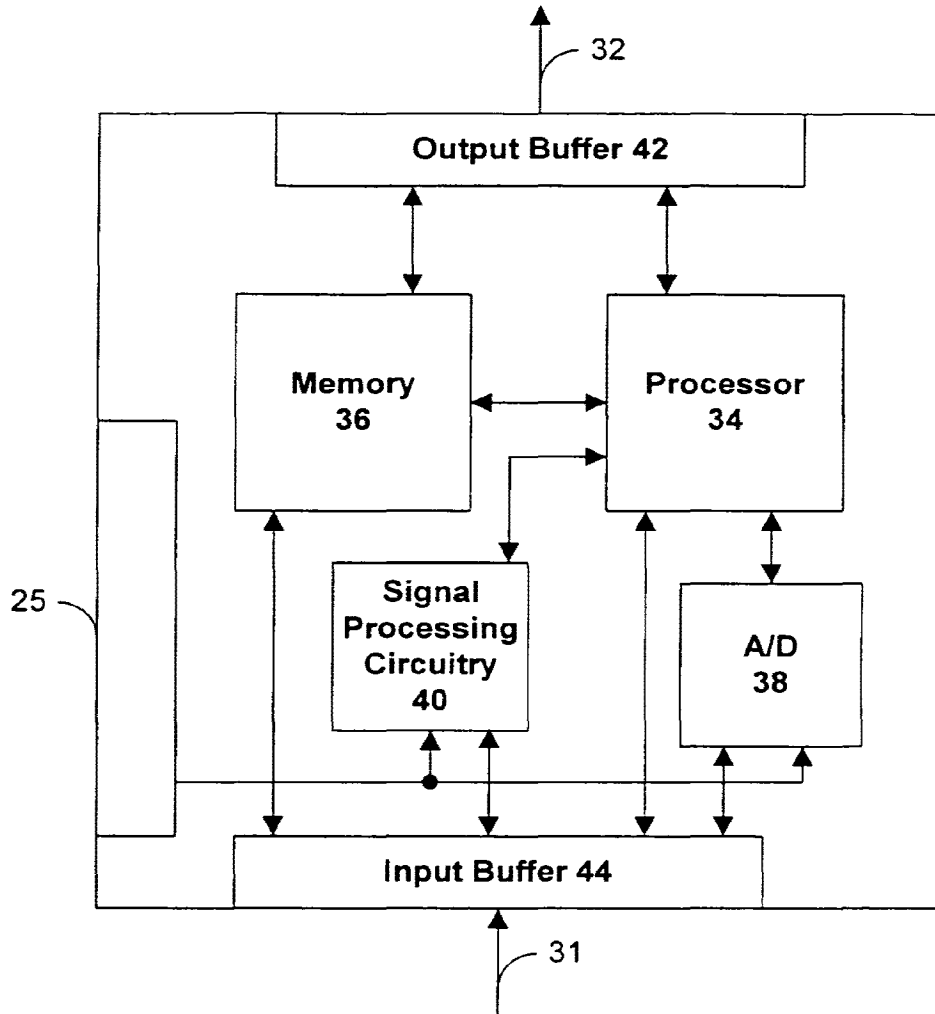


FIG. 2

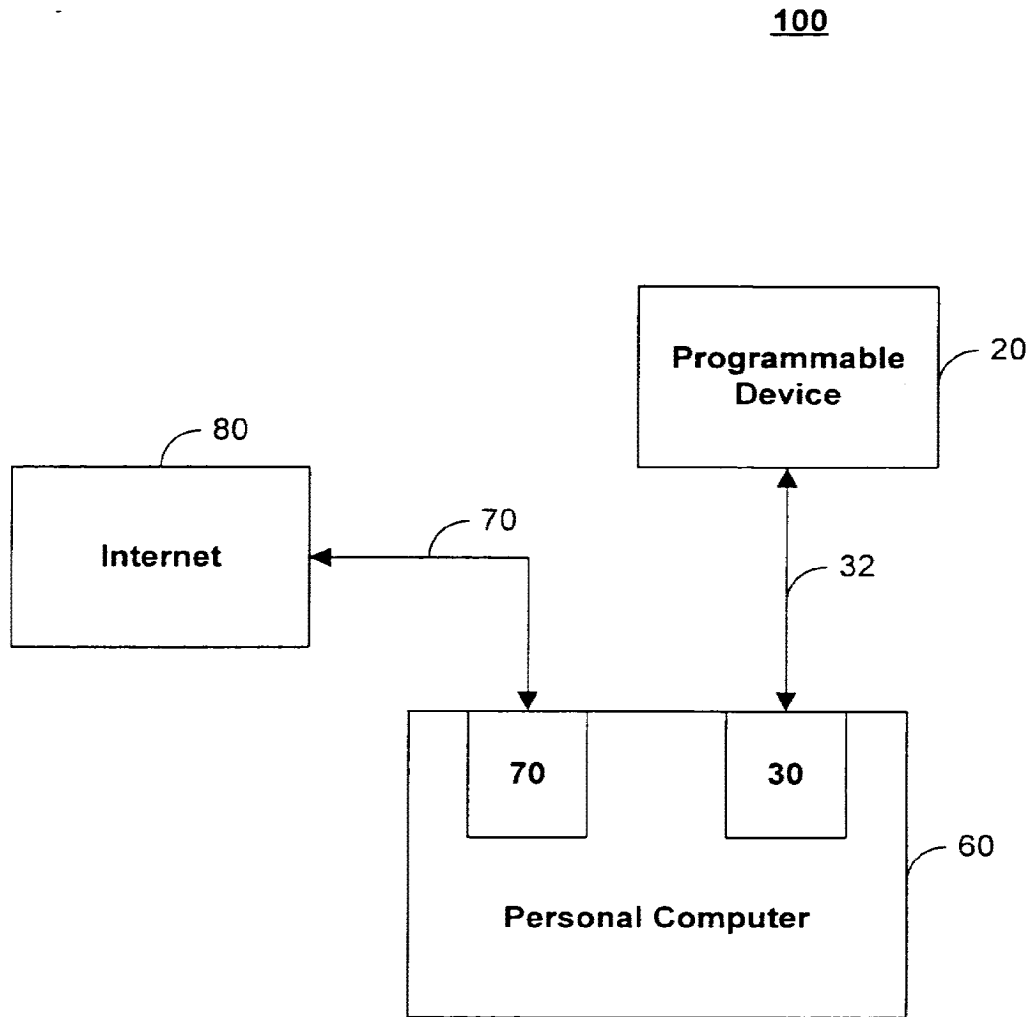


FIG. 3

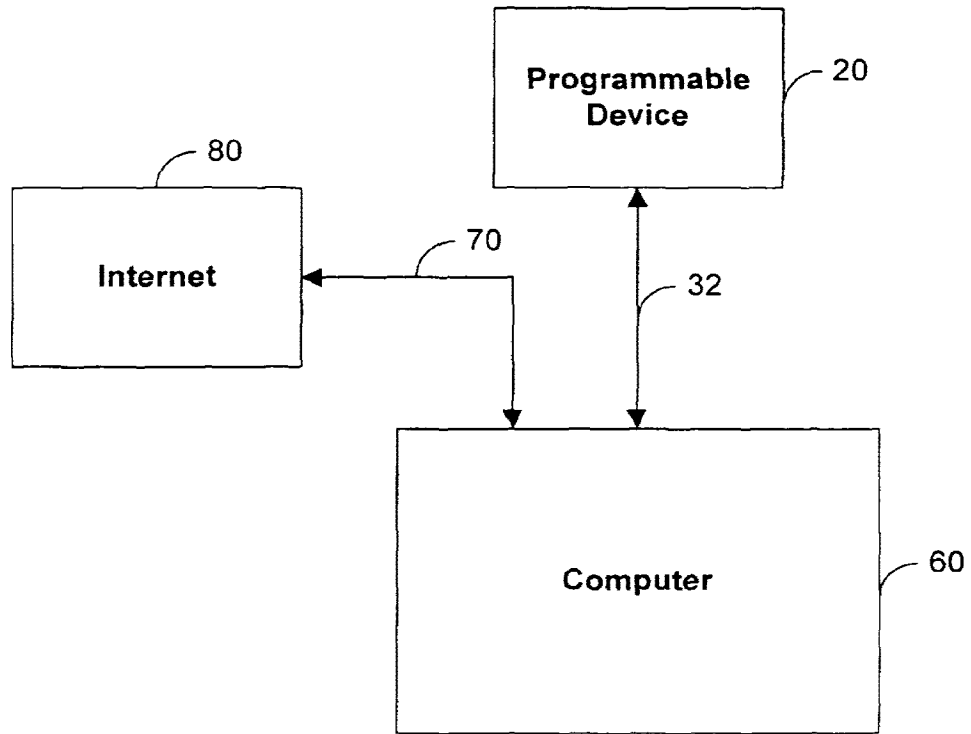


FIG. 4A

200

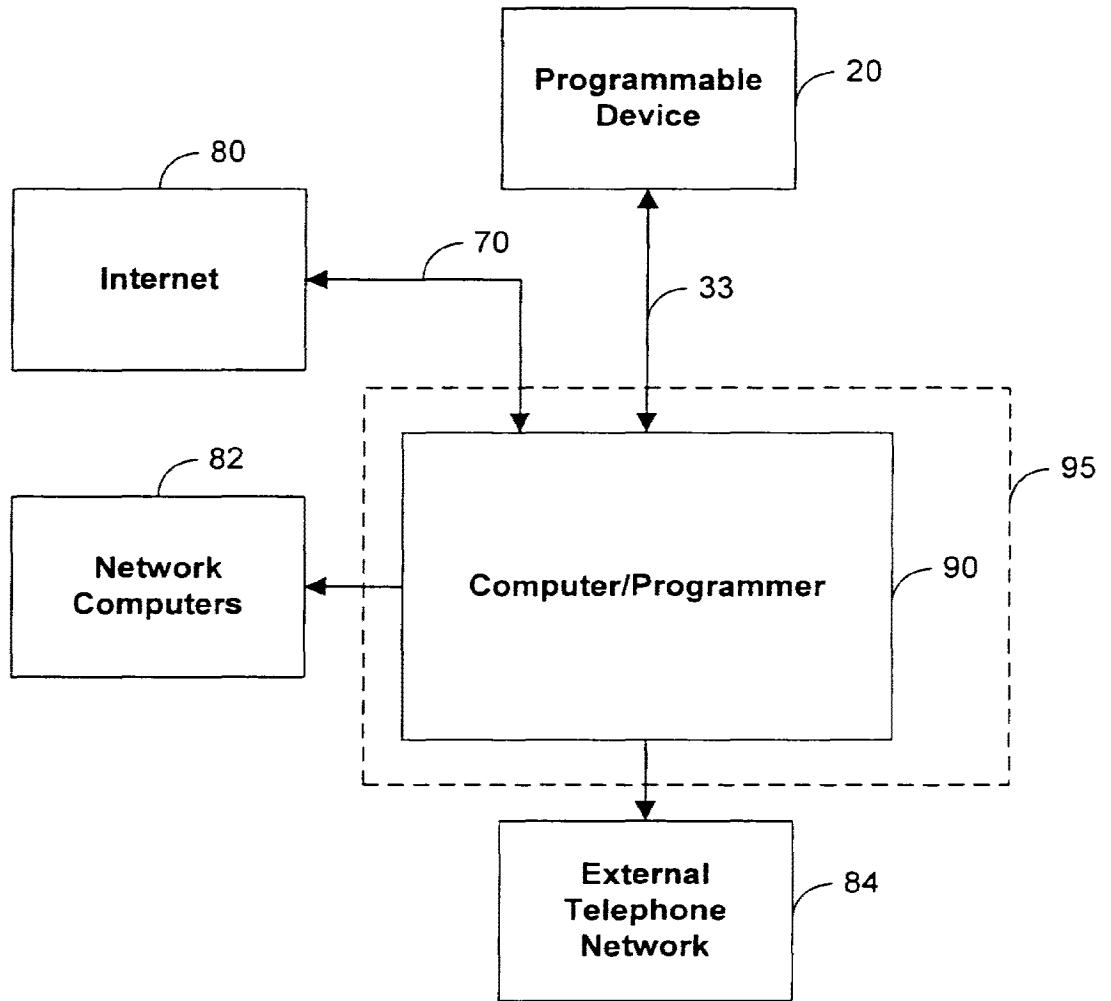


FIG. 4B

300

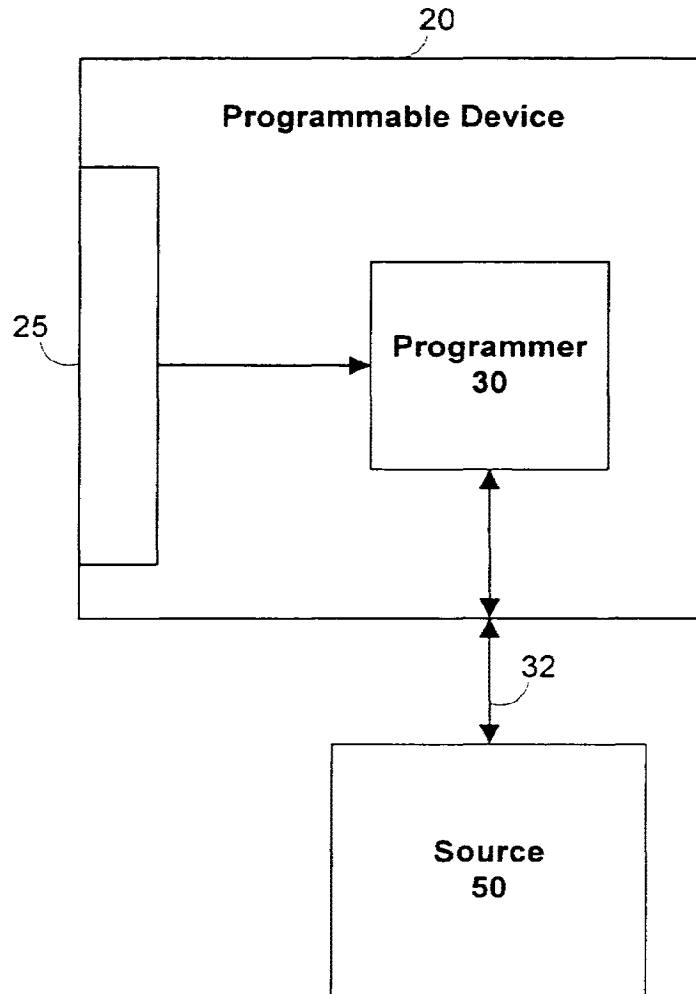


FIG. 5

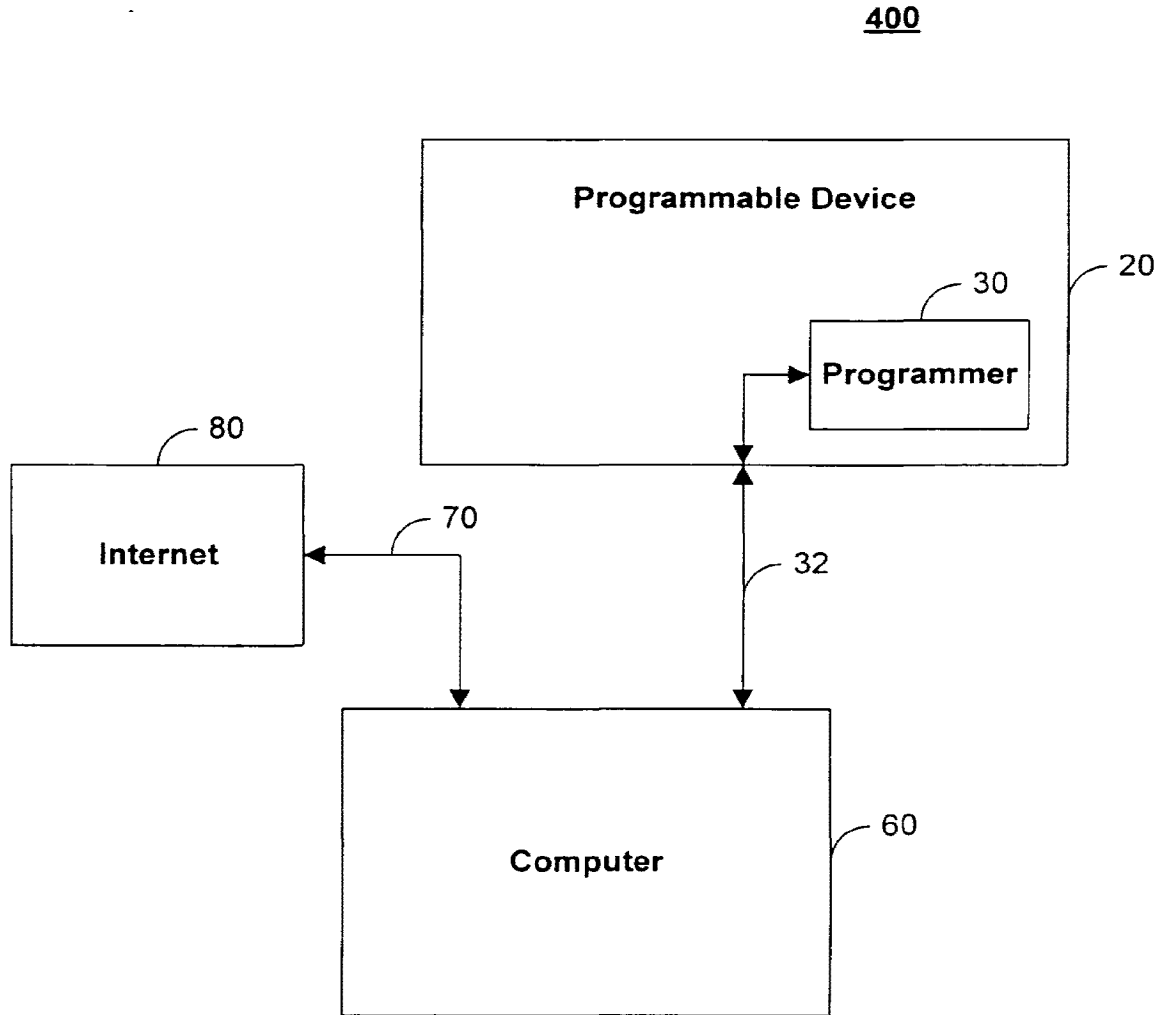


FIG. 6

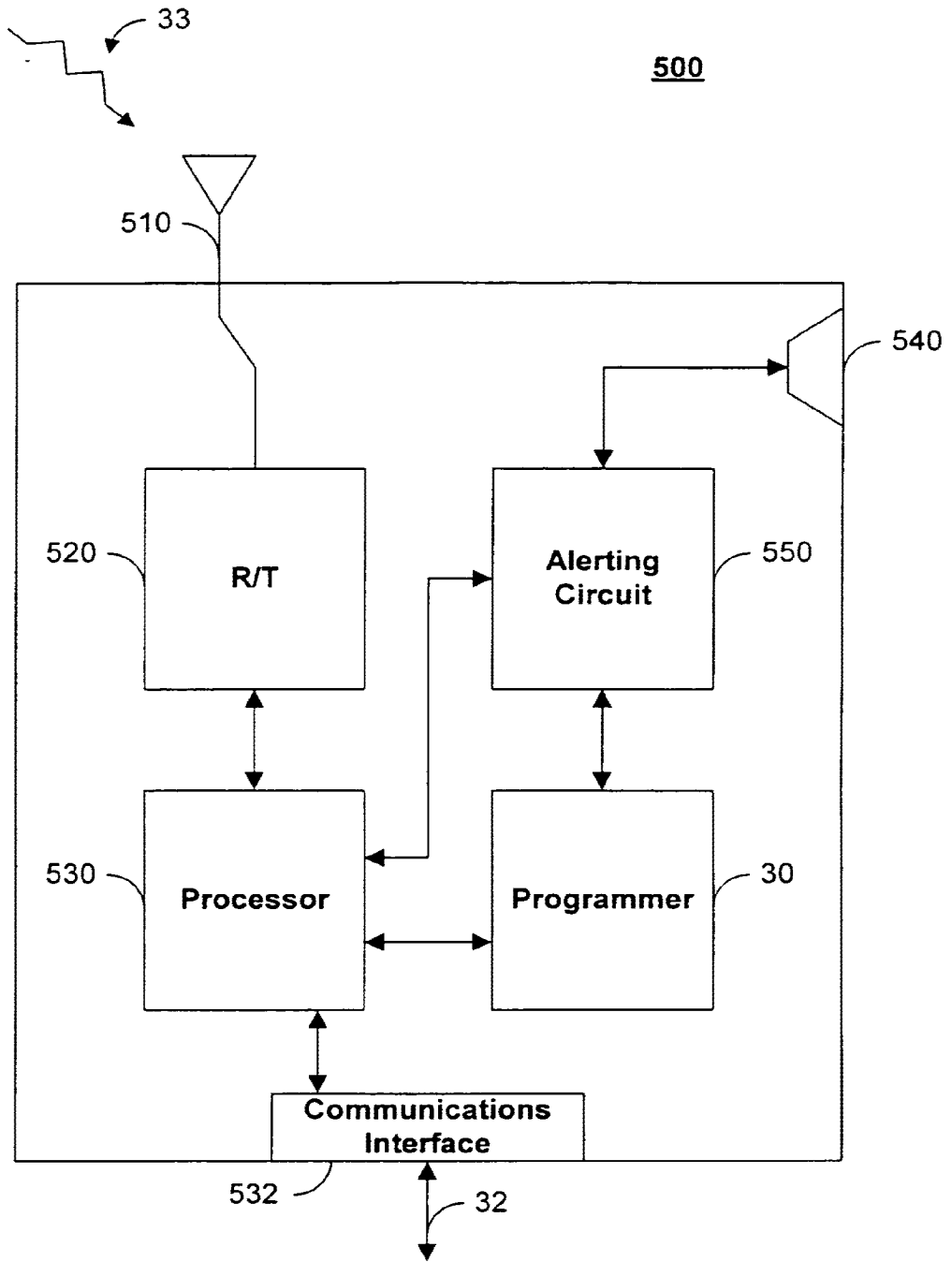


FIG. 7

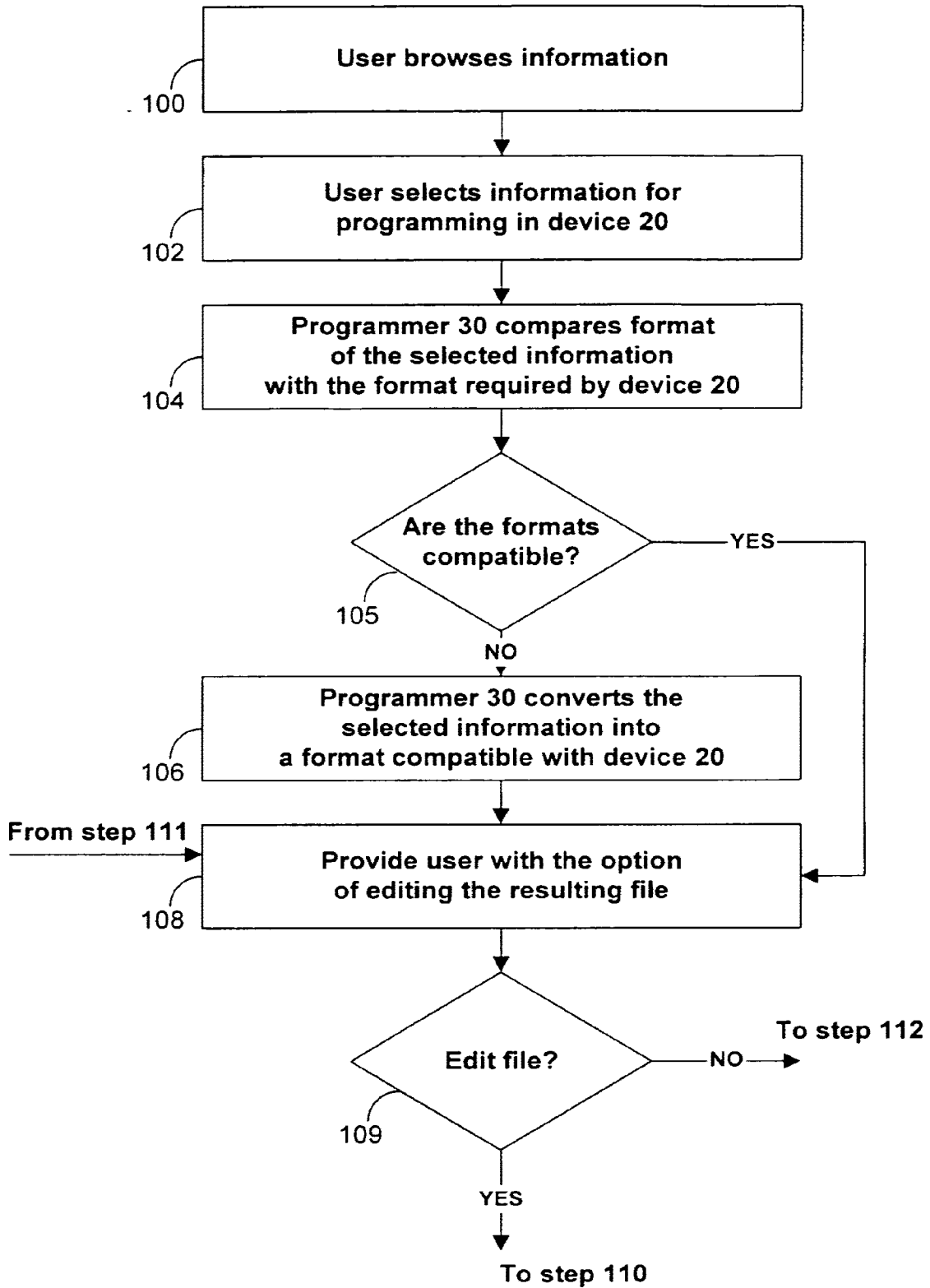


FIG. 8

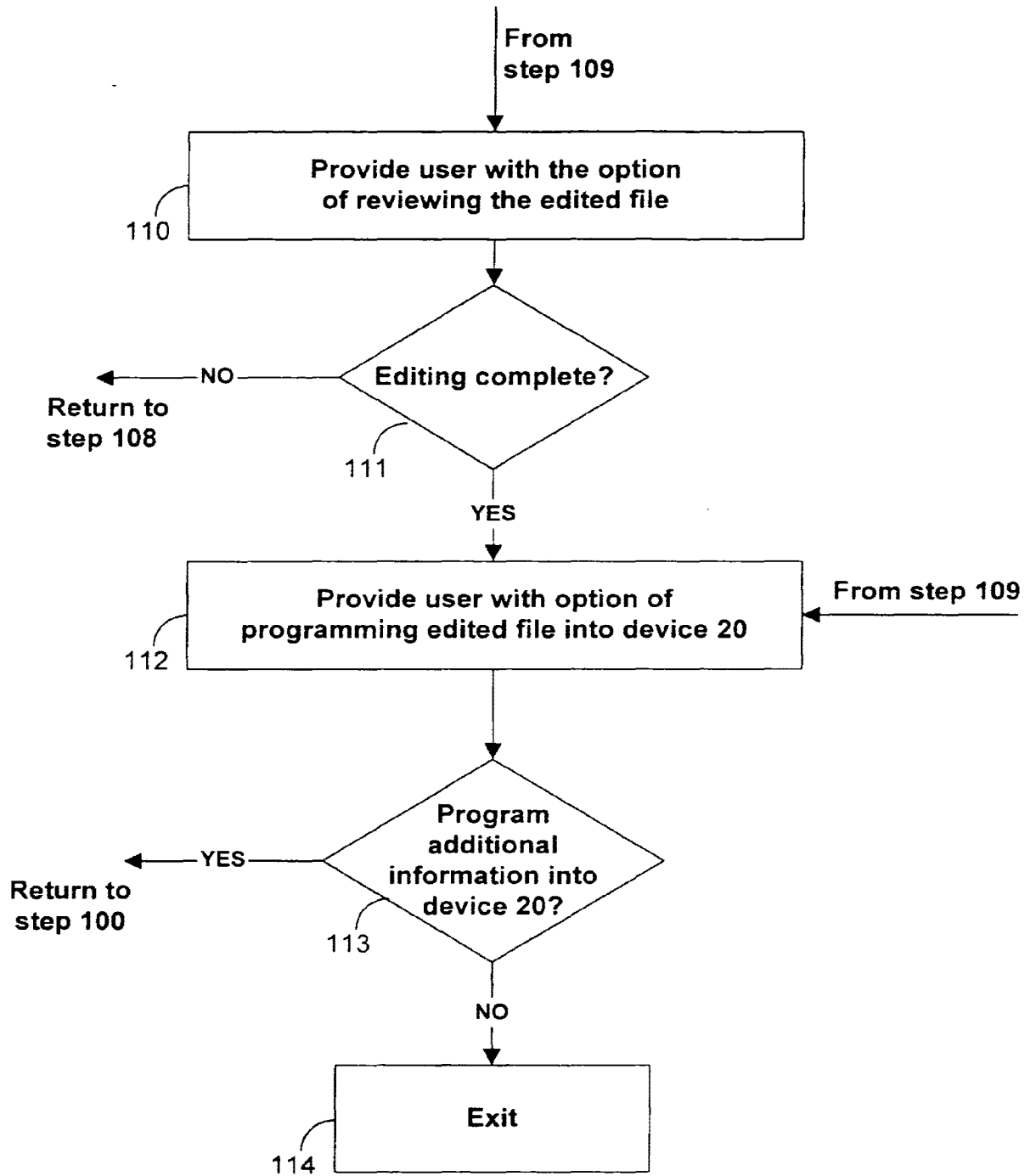


FIG. 9

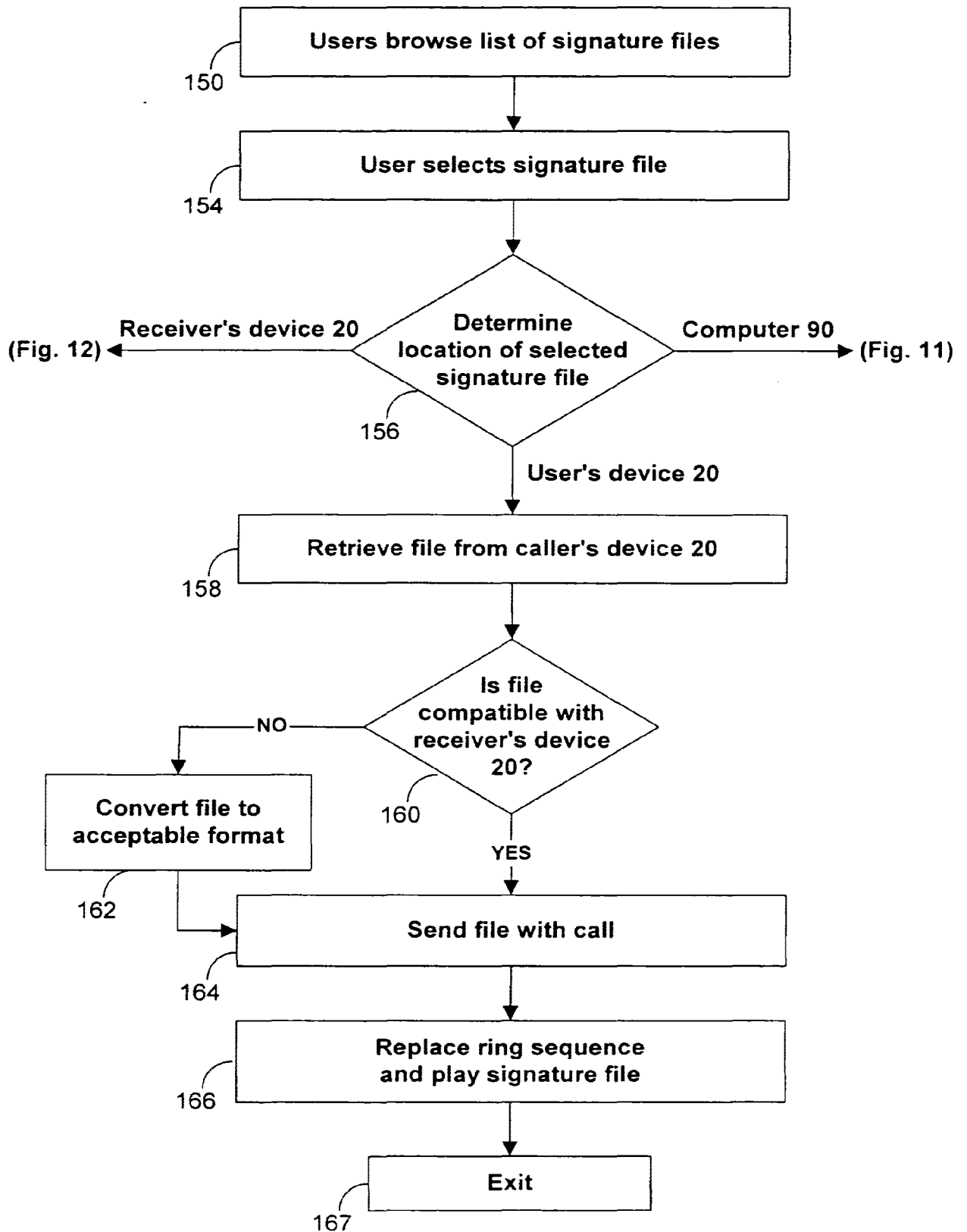


FIG. 10

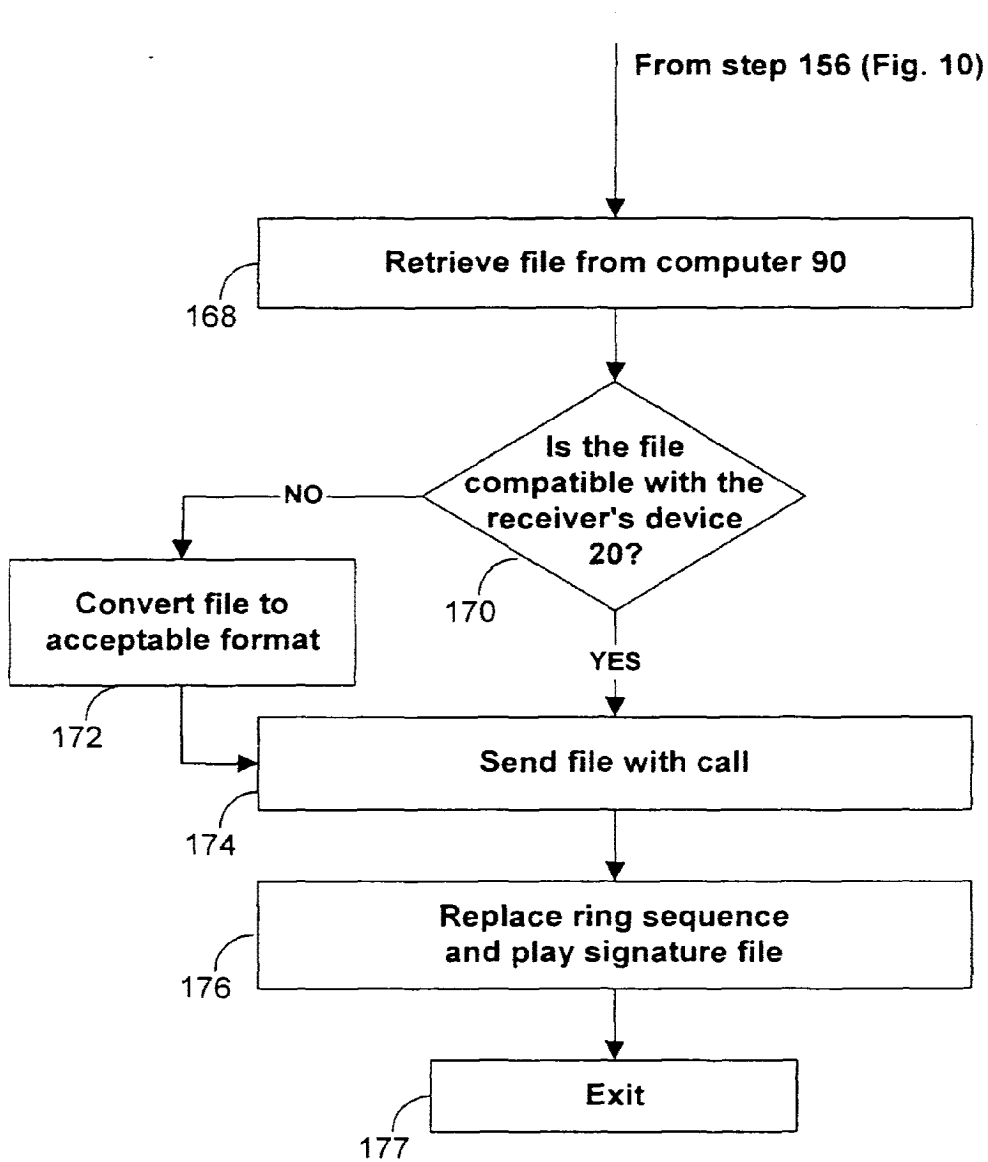


FIG. 11

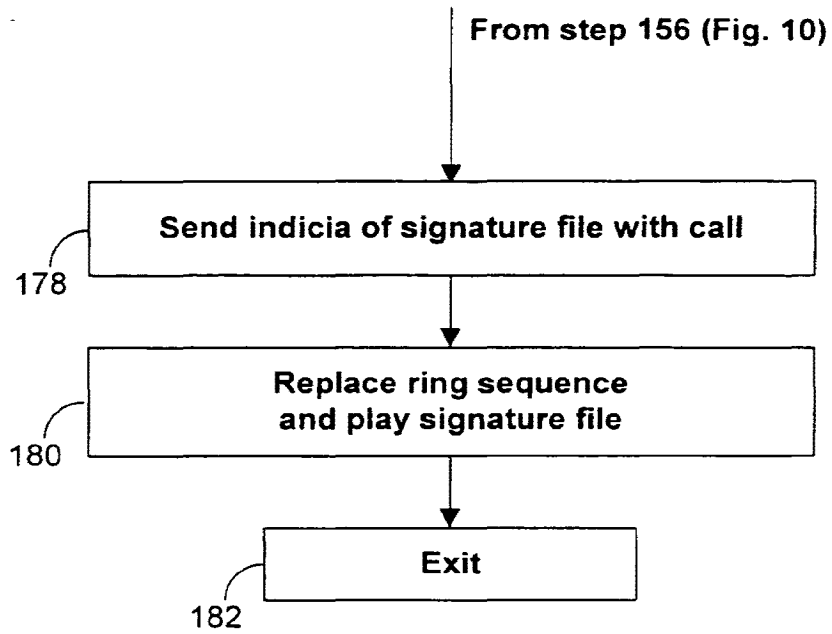


FIG. 12

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES

the specification of which

is attached hereto

was filed on _____ as
Application Serial No. _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I do not know and do not believe that the invention was ever patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application.

I do not know and do not believe that the invention was in public use or on sale in the United States of America more than one year prior to this application.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

			<u>Priority Claimed</u>
_____	_____	_____	<input type="checkbox"/> <input type="checkbox"/>
(Number)	(Country)	(Filing Date)	Yes No

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

60/169,158 December 6, 1999
 (Application Serial No.) (Filing Date)

09/518,846 March 3, 2000
 (Application Serial No.) (Filing Date)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:


(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
--------------------------	---------------	---

Send correspondence to: Michael E. Shanahan
 P.O. Box 381
 Nyack, N.Y., 10960

Direct telephone calls to: Michael E. Shanahan
 (914) 261-1160

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 Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor Michael E. Shanahan

First inventor's signature  6/24/03
Date

Residence 783 Route 9W South
Nyack, New York, 10960

Citizenship United States

Post Office Address P.O. Box 381 Nyack N.Y., 10960

INVENTOR INFORMATION

Inventor One Given Name:: Michael E
Family Name:: Shanahan
Postal Address Line One:: P.O. Box 381
City:: Nyack
State or Province:: New York
Country:: U.S.A.
Postal or Zip Code:: 10960
Citizenship Country:: U.S.A.

CORRESPONDENCE INFORMATION

Correspondence Customer Number:: 32850
Fax One:: 646-728-2623
Electronic Mail One:: mshanahan@fishneave.com

APPLICATION INFORMATION

Title Line One:: METHODS AND APPARATUSES FOR PROGRAMMING
Title Line Two:: USER-DEFINED INFORMATION INTO ELECTRONIC
Title Line Three:: DEVICES
Total Drawing Sheets:: 13
Formal Drawings?: Yes
Application Type:: Utility
Docket Number:: MES002CONIII
Secrecy Order in Parent Appl.?: No

CONTINUITY INFORMATION

This application is a:: CONTINUATION OF
> Application One:: 09/518846
Filing Date:: 03-03-2000

Which is a::NON PROV. OF PROVISIONAL
>> Application Two:: 60/169158
Filing Date:: 12-06-1999

Source:: PrintEFS Version 1.0.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant : Michael E. Shanahan
Serial No. : not yet assigned
Filed: : June 24, 2003
For : METHODS AND APPARATUSES FOR PROGRAMMING
USER-DEFINED INFORMATION INTO
ELECTRONIC DEVICES
Group Art Unit : not yet assigned

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

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97,
applicants hereby make the documents listed below of record
in the above-identified application.

Britz	5,414,444	May 9, 1995
McMahan et. al.	5,461,666	October 24, 1995
Olsen et al.	5,479,510	December 26, 1995
MacAllister et al.	5,481,599	January 2, 1996
Brandman et al.	5,483,580	January 9, 1996
Hird et al.	5,483,581	January 9, 1996
Moss et al.	5,485,370	January 16, 1996
Zdybel, Jr. et al.	5,486,686	January 23, 1996
Shapiro et al.	5,487,671	January 30, 1996
Sasso	5,490,210	February 6, 1996
Clark et al.	5,490,251	February 6, 1996
Hunt et al.	5,499,288	March 12, 1996
Pilc et al.	5,510,777	April 23, 1996
Bogosian, Jr.	5,513,272	April 30, 1996
Wolf	5,517,605	May 14, 1996
Hallsten	5,526,620	June 18, 1996

Meske, Jr. et al.	5,530,852	June 25, 1996
Hollenbach et al.	5,533,115	July 2, 1996
Shockley et al.	5,534,855	July 9, 1996
Amram et al.	5,537,586	July 16, 1996
Carlson et al.	5,542,046	July 30, 1996
Smithies et al.	5,544,255	August 6, 1996
Cheng et al.	5,544,322	August 6, 1996
Pettus	5,548,726	August 20, 1996
Henderson et al.	5,550,976	August 27, 1996
Harada et al.	5,551,021	August 27, 1996
Shirai	5,572,571	November 6, 1996
Greenberg	5,598,461	January 28, 1997
Newland	5,606,597	February 25, 1997
Gordon	5,608,786	March 4, 1997
DeLuca et. al.	5,612,682	March 18, 1997
Hoffman et al	5,613,012	March 18, 1997
Nilssen	5,623,531	April 22, 1997
Nilssen	5,661,802	August 26, 1997
Cohrs et al.	5,687,227	November 11, 1997
Averbuch et al.	5,689,825	November 18, 1997
Bentley et al.	5,727,047	March 10, 1998
Rondeau et al.	5,796,728	August 18, 1998
Shirai	5,828,956	October 27, 1998
Kenagy et. al.	5,842,124	November 24, 1998
Wise et al.	5,884,262	March 16, 1999
Uppaluru	5,915,001	June 22, 1999
Piosenka et al.	5,926,756	July 20, 1999
Cairns	5,930,703	July 27, 1999
Henrick	5,940,752	August 17, 1999
Kim	5,940,775	August 17, 1999
Flood et al.	5,953,638	September 14, 1999
Nilssen	5,999,094	December 7, 1999
Shaffer et al.	5,999,599	December 7, 1999
Sremac	6,002,761	December 14, 1999
Valentine et al.	6,018,654	January 25, 2000
Shirai	6,018,656	January 25, 2000
Kaufman	6,035,018	March 7, 2000
Ali-Vehmas et al.	6,035,189	March 7, 2000
Anderson et al.	6,058,161	May 2, 2000
Nilssen	6,073,003	June 6, 2000
Kato et al.	6,088,730	July 11, 2000
Armanto et al.	6,094,587	July 25, 2000
Parluski et al.	6,122,526	September 19, 2000
Lee et al.	6,137,525	October 24, 2000
Anderson et al.	6,144,722	November 7, 2000
Rosen	6,167,130	December 26, 2000
Nilssen	6,167,278	December 26, 2000
Plain et al.	6,179,682	January 30, 2001
Iggulden et al.	6,256,378	July 3, 2001
Lin et al.	6,366,791	April 2, 2002

Foreign Patents

Armanto et al.	EP 0 851 649 A2	December 16, 1997
Divon et al.	WO 9928897	December 4, 1997
Kim	WO 0038340	December 22, 1998
Rydbeck et al.	WO 9943136	February 18, 1998
Hideo	JP 09205471	August 5, 1997

Because this is a continuation application, copies of these documents are not enclosed herewith. It is respectfully requested that these documents be: (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent which may issue on this application. Applicant requests that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

Applicant believes that no fee is due at this time. A duplicate copy of this Information Disclosure Statement is enclosed herewith.

An early and favorable action is respectfully requested.

Respectfully submitted,



Michael E. Shanahan
Applicant
Customer No.: 32850
P.O. Box 381
Nyack, N.Y., 10960

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MES/002 CON III	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Michael E. Shanahan	
		FILING DATE June 24, 2003	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,479,510	12/26/95	Olsen et al.	380	24	
	5,481,599	01/02/96	MacAllister et al	379	101	
	5,483,580	01/09/96	Brandman et al.	379	88	
	5,483,581	01/09/96	Hird et al.	379	132	
	5,485,370	01/16/96	Moss et al.	364	408	
	5,486,686	01/23/96	Zdybel, Jr. et al.	235	375	
	5,487,671	01/30/96	Shapiro et al.	434	185	
	5,490,210	02/06/96	Sasso	379	100	
	5,490,251	02/06/96	Clark et al.	395	200.2	
	5,499,288	03/12/96	Hunt et al.	379	88	
	5,510,777	04/23/96	Pilc et al.	340	825.310	
	5,513,272	04/30/96	Bogosian, Jr.	382	116	
	5,517,605	05/14/96	Wolf	395	155	
	5,526,620	06/18/96	Hallsten	52	246	
	5,530,852	06/25/96	Meske, Jr. et al.	395	600	
	5,533,115	07/02/96	Hollenbach et al.	379	220	
	5,534,855	07/09/96	Shockley et al.	340	825.300	
	5,537,586	07/16/96	Amram et al.	395	600	
	5,542,046	07/30/96	Carlson et al.	395	186	
	5,544,255	08/06/96	Smithies et al.	382	119	
	5,544,322	08/06/96	Cheng et al.	395	200.12	
	5,548,726	08/20/96	Pettus	395	200.09	
	5,550,976	08/27/96	Henderson et al.	395	200.06	
	5,551,021	08/27/96	Harada et al.	395	600	
	5,598,461	01/28/97	Greenberg	379	67	
	5,608,786	03/04/97	Gordon	379	100	
	5,613,012	03/18/97	Hoffman et al	382	115	
	5,623,531	04/22/97	Nilssen	379	56	
	5,661,802	08/26/97	Nilssen	380	20	

EXAMINER

DATE CONSIDERED

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

EV132183444US

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. MES/002 CON III		SERIAL NO.	
	APPLICANT Michael E. Shanahan			
	FILING DATE June 24, 2003		GROUP	

	5,687,227	11/11/97	Cohrs et al.	379	374	
	5,689,825	11/18/97	Averbuch et al.	455	89	
	5,727,047	03/10/98	Bentley et al.	379	93	
	5,796,728	08/18/98	Rondeau et al.	370	338	
	5,828,956	10/27/98	Shirai	455	411	
	5,884,262	03/16/99	Wise et al.	704	270	
	5,915,001	06/22/99	Uppaluru	379	88.22	
	5,926,756	07/20/99	Piosenka et al.	455	418	
	5,930,703	07/27/99	Cairns	455	418	
	5,940,752	08/17/99	Henrick	455	419	
	5,953,638	09/14/99	Flood et al.	455	31.2	
	5,999,094	12/07/99	Nilssen	340	507	
	5,999,599	12/07/99	Schaffer et al.	379	93.23	
	6,002,761	12/14/99	Sremac	379	374	
	6,018,654	01/25/00	Valentine et al.	455	414	
	6,018,656	01/25/00	Shirai	455	422	
	6,035,018	03/07/00	Kaufman	379	88.17	
	6,035,189	03/07/00	Ali-Vehmas et al.	455	414	
	6,058,161	05/02/00	Anderson et al.	379	27	
	6,073,003	06/06/00	Nilssen	455	402	
	6,088,730	07/11/00	Kato et al.	709	227	
	6,094,587	07/25/00	Armanto et al.	455	567	
	6,144,722	11/07/00	Anderson et al.	379	27	
	6,167,130	12/26/00	Rosen	379	355	
	6,167,278	12/26/00	Nilssen	455	462	
	6,179,682	01/30/01	Plain et al.	446	141	
	6,256,378	07/03/01	Iggulden et al.	379	102.3	
	6,366,791	04/02/02	Lin et al.	455	567	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	PCT Written Opinion

EXAMINER

DATE CONSIDERED

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

PATENT APPLICATION FEE DETERMINATION RECORD

Effective January 1, 2003

Application or Docket Number

MES/002 CONT II

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS		
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	minus 20 = *	—
INDEPENDENT CLAIMS	minus 3 = *	—
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE OR

OTHER THAN SMALL ENTITY

RATE	FEE	OR	RATE	FEE
BASIC FEE	375.00	OR	BASIC FEE	750.00
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL	375	OR	TOTAL	

CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	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	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT 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	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	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	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
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.

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

06/27/2003 MBERHE 00000070 10603271
01 FC:2001 375.00 DP

PTO-1556
(5/87)