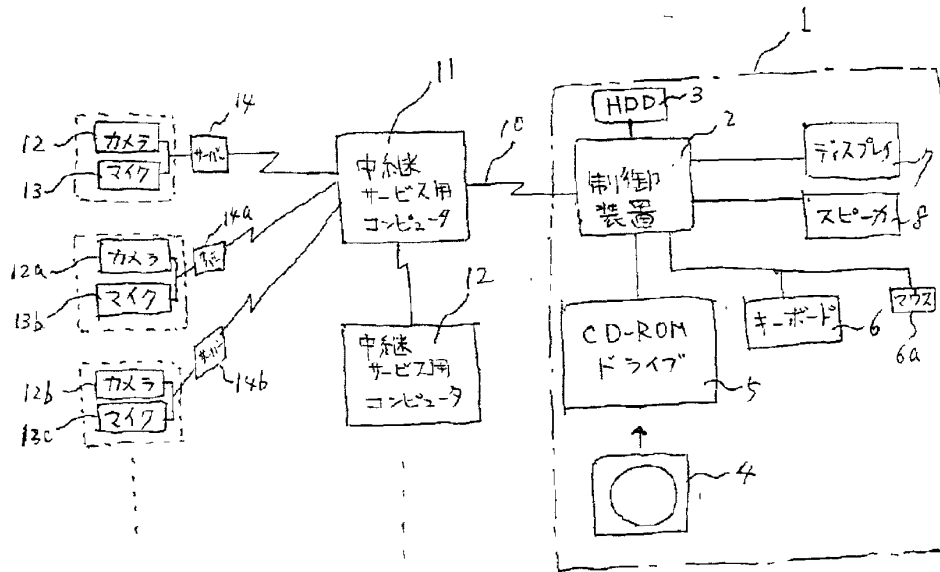


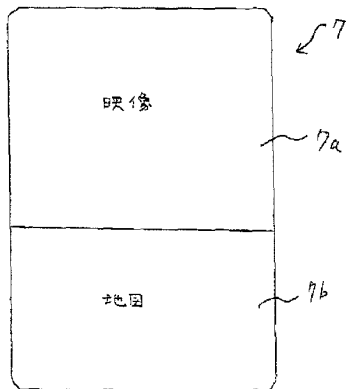
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- 7 b ディスプレイの下半分
- 8 スピーカ
- 10 公衆回線

- 11 中継サービス用コンピュータ
- 12, 12 a, 12 b ビデオカメラ
- 13, 13 a, 13 b マイク
- 21 LCD. 22 GPS受信機. 23 制御部. 24 地図データベース用サーバー (コンピュータ). 25 映像入力装置. 26 キーボード. 27 マウス. 30 コンピュータ通信網. 31 映像入力装置. 34 CD-ROMプレーヤ. 35 CD-ROM

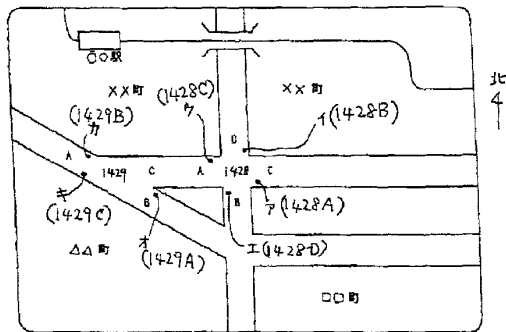
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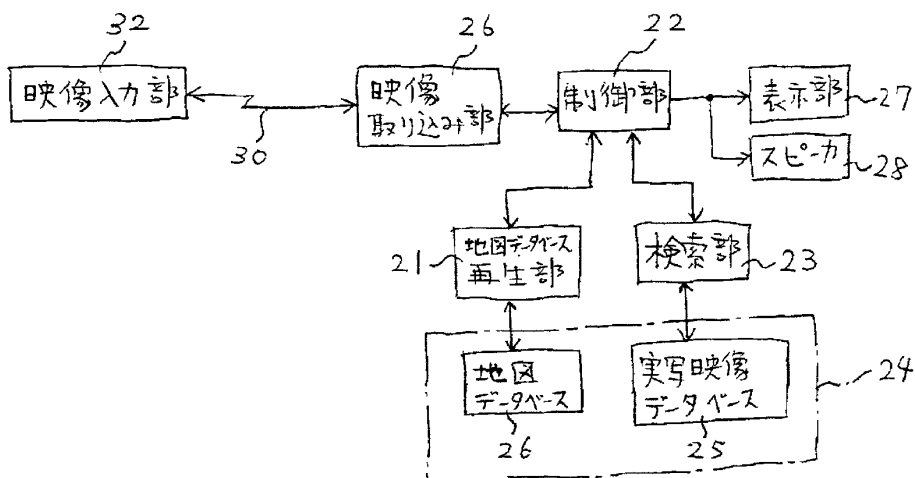
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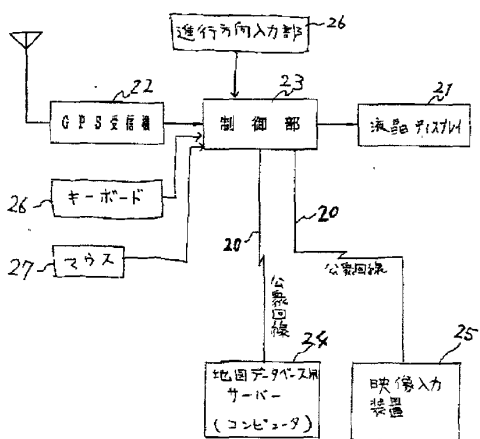
【図4】



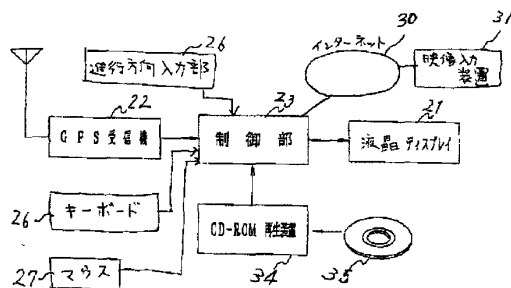
【図2】



【図5】



【図6】



Electronic Patent Application Fee Transmittal

Application Number:	10336470			
Filing Date:	03-Jan-2003			
Title of Invention:	Apparatus for capturing, converting and transmitting a visual image signal via a digital transmission system			
First Named Inventor/Applicant Name:	David A. Monroe			
Filer:	Jeffrey Darryl Hunt			
Attorney Docket Number:	07-0197			
Filed as Large Entity				
Utility 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:				
Extension-of-Time:				

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

Electronic Acknowledgement Receipt

EFS ID:	2317505
Application Number:	10336470
International Application Number:	
Confirmation Number:	8448
Title of Invention:	Apparatus for capturing, converting and transmitting a visual image signal via a digital transmission system
First Named Inventor/Applicant Name:	David A. Monroe
Customer Number:	67589
Filer:	Jeffrey Darryl Hunt
Filer Authorized By:	
Attorney Docket Number:	07-0197
Receipt Date:	13-OCT-2007
Filing Date:	03-JAN-2003
Time Stamp:	15:04:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	3992
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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34	Fee Worksheet (PTO-06)	fee-info.pdf	8203 c88f86b2637a22c70ca1a295e4ed1b2aa98fde38	no	2

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	Application Number	10/336,470	
	Filing Date	January 3, 2003	
	First Named Inventor	David A Monroe	
	Art Unit	2625	
	Examiner Name	Safaipour, Houshang	
	Attorney Docket Number	07-0197	
Sheet	3	of	7

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- 5,867,804	02-02-1999	Pilley, et al	
		US- 5,917,405	06-29-1999	Joso	
		US- 5,926,210	07-20-1999	Hackett, et al	
		US- 5,974,158	10-26-1999	Auty. et al	
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		US- 5,999,116	12-07-1999	Evers	
		US- 6,084,510	07-04-2000	Lemelson, et al	
		US- 6,092,008	07-18-2000	Bateman	
		US- 6,154,658	11-28-2000	Caci	
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		US- 6,181,373	1-30-2001	Coles	
		US- 6,195,609	02-27-2001	Pilley, et al	
		US- 6,226,031	05-01-2001	Barraciough, et al	
		US- 6,275,231	08-14-2001	Obradovich	
		US- 6,278,965	08-21-2001	Glass, et al	
		US- 6,282,488	08-28-2001	Castor, et al	
		US- 6,462,697	10-08-2002	Klamer, et al	
		US- 5,933,098	08-03-1999	Haxton	
		US- 5,689,442	11-18-1997	Swanson	

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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
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP785,536	07-23-1997	Ferri, et al		
		WO97,37336	10-08-1997	Auty, et al		
		EP232,031	08-12-1987	Hale		
		EP613,109	08-31-1994	Hoover		
		WO96/12265	04-25-1996	Milgard		
		WO95/27910	10-19-1995	Wallis		

Examiner Signature		Date Considered	
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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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	Application Number	10/336,470	
	Filing Date	January 3, 2003	
	First Named Inventor	David A Monroe	
	Art Unit	2625	
	Examiner Name	Safaipour, Houshang	
	Attorney Docket Number	07-0197	
Sheet	4	of	7

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- 6,100,964	08-08-2000	De Cremiers	
		US- 5,714,948	02-03-1998	Farmakis, et al	
		US- 5,627,753	05-06-1997	Brankin, et al	
		US- 4,857,912	08-15-1989	Everett, Jr. et al	
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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 ⁴ -Kind Code ⁵ (if known)				
		JP-A-10-155040	06-09-1998	Nisshin Denki		
		JP-HEI-10-66058	03-06-1998	Masanobu Kujirada		

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		Application Number	10/336,470
		Filing Date	January 3, 2003
		First Named Inventor	David A Monroe
		Art Unit	2625
		Examiner Name	C Tran
		Attorney Docket Number	07-0197
Sheet	2	of	7

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		Number-Kind Code ² (if known)			
		US- 5,463,595	10-31-1995	Rochall, et al	
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		US- 5,530,440	06-25-1996	Denzer, et al	
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		US- 5,850,180	12-15-1998	Hess	

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		EP613,110	08-31-1994	Hoover		
		EP613,111	08-31-1998	Tenpei		
		EP744,630	11-27-1996	Atul		
		WO90/04242	04-19-1990	Norman, et al		
		WO98/52174	11-19-1999	Hajjassalo		
		EP532,110	03-17-1993	Raimondi		

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NOTICE OF ALLOWANCE AND FEE(S) DUE

67589 7590 12/27/2007
MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

EXAMINER
SAFAIPOUR, HOUSHANG
ART UNIT PAPER NUMBER
2625
DATE MAILED: 12/27/2007

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

10/336,470 01/03/2003 David A. Monroe 07-0197 8448
TITLE OF INVENTION: APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

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

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

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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

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

If the SMALL ENTITY is shown as NO:

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

67589 7590 12/27/2007

MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

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.

_____ (Depositor's name)
_____ (Signature)
_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/336,470	01/03/2003	David A. Monroe	07-0197	8448

TITLE OF INVENTION: APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	03/27/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
SAFAIPOUR, HOUSHANG	2625	358-474000

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

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

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

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

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
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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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MOORE LANDREY
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EXAMINER
SAFAIPOUR, HOUSHANG
ART UNIT PAPER NUMBER
2625
DATE MAILED: 12/27/2007

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 0 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 0 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)	
	10/336,470	MONROE, DAVID A.	
	Examiner	Art Unit	
	Houshang Safaipoor	2625	

-- 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 an amendment filed on 10/13/2007.
2. The allowed claim(s) is/are 43-45, 48, 50-52, 54, 55, 60 and 62-66.
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 type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 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 checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|--|---|



Reasons for Allowance

1. Claims 1-42, 46, 47, 49, 53, 56-59 and 61 are canceled.
2. Claims 43-45, 48, 50-52, 54, 55, 60 and 62-66 are allowed.
3. This is examiner's statement of reasons for allowance.

Regarding claims 43-45, 48 and 50, the prior art, either singularly or in combination, does not teach or suggest a handheld self-contained cellular telephone and integrated image processing system for both sending and receiving telephonic audio signals and for capturing a visual image and transmitting it to a compatible remote receiving station of a wireless telephone network, the system comprising:

an integral image capture device comprising an electronic camera contained within the portable housing; a display for displaying an image framed by the camera, the display being supported by the housing, the display and the electronic camera being commonly movable in the housing when the housing is moved by hand; a memory associated with the processor for receiving and storing the digitized framed image, accessible for selectively displaying in the display window and accessible for selectively transmitting over the wireless telephone network the digitized framed image;

Regarding claims 51, 52, and 54, the prior art, either singularly or in combination, does not teach or suggest a handheld cellular telephone having an integrated electronic camera for both sending and receiving telephonic audio signals and for capturing a visual image, converting

the visual image to a digitized image data signal and transmitting digitized image data signal via a cellular telephone network, the cellular telephone comprising:

a manually portable housing supporting the cellular telephone and the integrated electronic camera, the cellular telephone and the integrated electronic camera being movable in common with the housing; an integral electronic camera in the housing, the camera for visually framing a visual image to be captured; a processor associated with the electronic camera for capturing and digitizing the framed image in a format for transmission over the cellular telephone network via the cellular telephone; a memory associated with the processor for receiving and storing the digitized framed image, accessible for selectively displaying in the display window and accessible for selectively transmitting over the cellular telephone network the digitized framed image;

Regarding claims 55, 60, and 62-66, the prior art, either singularly or in combination, does not teach or suggest a combination of handheld cellular telephone and electronic camera comprising:

an electronic camera integral within the housing; a display in the housing for framing the image to be captured by an image capture device and for viewing the image whereby an operator can view and frame the image prior to capture; a memory associated with the processor for receiving and storing the digitized framed image for selectively displaying the digitized framed image in the display window and for selectively transmitting the digitized framed image over a cellular telephone network; a cellular telephone in the housing for accepting and digitizing audio signals to be transmitted and for converting received digitized audio signals into acoustic audio,

Application/Control Number:
10/336,470
Art Unit: 2625

Page 7

the cellular telephone further for transmitting and receiving non-audio digital signals including digitized image signals;

The features identified, in combination with other claim limitations, are neither suggested nor discussed by the prior art of record.

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."

4. ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipour whose telephone number is (571)272-7412. The examiner can normally be reached on Mon.-Thurs. from 6:30am to 3:00pm.

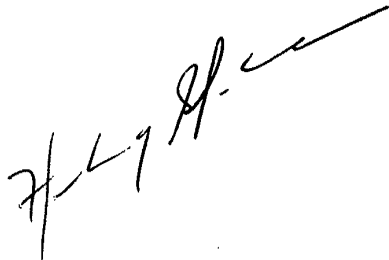
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore whose telephone number is (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Application/Control Number:
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Page 8

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).

Houshang Safaipoor
Patent Examiner
November 26, 2007

A handwritten signature in black ink, appearing to read 'H. Safaipoor', written diagonally across the page.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of issue fee.

Authorization to amend the claims was given in telephone interview with Jeffery D. Hunt (Registration No. 38,189) on November 26, 2007.

2. In the Claims:

43. (currently amended) A handheld self-contained cellular telephone and integrated image processing system for both sending and receiving telephonic audio signals and for capturing a visual image and transmitting it to a compatible remote receiving station of a wireless telephone network, the system comprising:

a manually portable housing;

an integral image capture device comprising an electronic camera contained within the portable housing;

a display for displaying an image framed by the camera, the display being supported by the housing, the display and the electronic camera being commonly movable in the housing when the housing is moved by hand;

a processor in the housing for generating an image data signal representing the image framed by the camera;

a memory associated with the processor for receiving and storing the digitized framed image, accessible for selectively displaying in the display window and accessible for selectively transmitting over the wireless telephone network the digitized framed image;

a user interface for enabling a user to select the image data signal for viewing and transmission;

a telephonic system in the housing for sending and receiving digitized audio signals and for sending the image data signal;

alphanumeric input keys in the housing for permitting manually input digitized alphanumeric signals to be input to the processor, the telephonic system further used for sending the digitized alphanumeric signals;

a wireless communications device adapted for transmitting any of the digitized signals to the compatible remote receiving station; and

a power supply for powering the system.

51. (currently amended) A handheld cellular telephone having an integrated electronic camera for both sending and receiving telephonic audio signals and for capturing a visual image, converting the visual image to a digitized image data signal and transmitting digitized image data signal via a cellular telephone network, the cellular telephone comprising:

a manually portable housing supporting the cellular telephone and the integrated electronic camera, the cellular telephone and the integrated electronic camera being movable in common with the housing;

a cellular telephone in the housing, the cellular telephone further including a transmitter/receiver for transmitting and receiving audio telephone messages over a cellular telephone network, a keypad for entering manually input alphanumeric signals to be transmitted over the cellular telephone network, and a display window for viewing the manually input alphanumeric signals:

an integral electronic camera in the housing, the camera for visually framing a visual image to be captured;

a processor associated with the electronic camera for capturing and digitizing the framed image in a format for transmission over the cellular telephone network via the cellular telephone;


a memory associated with the processor for receiving and storing the digitized framed image, accessible for selectively displaying in the display window and accessible for selectively transmitting over the cellular telephone network the digitized framed image;

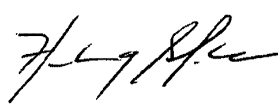
a user interface for enabling a user to selectively display the digitized framed image in the display window and subsequently transmit the digitized framed image over the cellular telephone network; and

an integrated power supply for powering both the cellular telephone and the camera.



Houhang Safaipoor
Patent Examiner

Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/336,470	MONROE, DAVID A.	
	Examiner	Art Unit	
	Houshang Safaipoor	2625	

ISSUE CLASSIFICATION											
ORIGINAL					CROSS REFERENCE(S)						
CLASS	SUBCLASS				CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
358	1.15				358	402	403	407			
INTERNATIONAL CLASSIFICATION											
G	0	6	K	1/00							
H	0	4	N	1/00							
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(Assistant Examiner) (Date)					 11/24/07 (Primary Examiner) (Date)					Total Claims Allowed: 15	
(Legal Instruments Examiner) (Date)										O.G. Print Claim(s)	O.G. Print Fig.
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<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		
	2		32	11	62		
	3		33	12	63		
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	28		58				
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	30	10	60				

Notice of References Cited	Application/Control No. 10/336,470	Applicant(s)/Patent Under Reexamination MONROE, DAVID A.	
	Examiner Joseph R. Pokrzywa	Art Unit 2625	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-5,412,708 B1	05-1995	Katz, Ronald A.	348/14.05
B	US-			
C	US-			
D	US-			
E	US-			
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

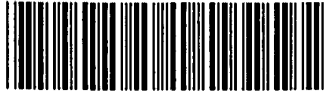
*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
*	N JP 06-268582 A	09-1994	Japan	Kawazu et al.	H04B 07/26
O					
P					
Q					
R					
S					
T					

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.

Search Notes



Application/Control No.

10/336,470

Examiner

Houshang Safaipoor

Applicant(s)/Patent under Reexamination

MONROE, DAVID A.

Art Unit

2625

SEARCHED

Class	Subclass	Date	Examiner
358	1.15	11/10/2007	HS
	402		
	403		
	407		
	442		
	468		
	474		

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
358	1.15	11/10/2007	HS
	402		
	403		
358/407			

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
East	11/10/2007	HS
Consulted w/J. Pokrzywa		
Inteference search performed		
Inventor search performed		

Index of Claims



Application/Control No.

10/336,470

Examiner

Houshang Safaipoor

Applicant(s)/Patent under Reexamination

MONROE, DAVID A.

Art Unit

2625

√	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date											
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Electronic Patent Application Fee Transmittal

Application Number:	10336470			
Filing Date:	03-Jan-2003			
Title of Invention:	APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM			
First Named Inventor/Applicant Name:	David A. Monroe			
Filer:	Jeffrey Darryl Hunt			
Attorney Docket Number:	07-0197			
Filed as Large Entity				
Utility 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:				
Utility Appl issue fee	1501	1	1440	1440
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1740

Electronic Acknowledgement Receipt

EFS ID:	2732806
Application Number:	10336470
International Application Number:	
Confirmation Number:	8448
Title of Invention:	APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM
First Named Inventor/Applicant Name:	David A. Monroe
Customer Number:	67589
Filer:	Jeffrey Darryl Hunt
Filer Authorized By:	
Attorney Docket Number:	07-0197
Receipt Date:	17-JAN-2008
Filing Date:	03-JAN-2003
Time Stamp:	16:21:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

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1	Fee Worksheet (PTO-06)	fee-info.pdf	8338	no	2
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National Stage of an International Application under 35 U.S.C. 371

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/336,470	01/03/2003	David A. Monroe	07-0197	8448

67589 7590 02/27/2008
MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

EXAMINER

SAFAIPOUR, HOUSHANG

ART UNIT PAPER NUMBER

2625

MAIL DATE DELIVERY MODE

02/27/2008

PAPER

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10336470	1/3/2003	MONROE, DAVID A.	07-0197

MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

EXAMINER

Houshang Safaipour

ART UNIT	PAPER
2625	20080215

DATE MAILED:

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 10

Complete if Known

Application Number	10/336,470
Filing Date	1-3-03
First Named Inventor	David Mankin
Art Unit	2625
Examiner Name	Hirokazu Sato, et al
Attorney Docket Number	7-0197

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 of Priority			
[Signature]	US-	6 525,761 B2	02-25-2003	Mamoru Sato, et al	
	US-	7 113,971 B1	09-26-2006	Hirokazu Ohi, 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 ⁴ Kind Code ⁵ of Inventor				
[Signature]		JP-A-10-155040	06-09-1998	Nishin Danki		
		JP-HEI-10-66058	03-06-1998	Masanobu Kujirada		

Examiner Signature	[Signature]	Date Considered	2/14/08
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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	10/336,470
		Filing Date	1-3-03
		First Named Inventor	David Munkel
		Art Unit	2625
		Examiner Name	Houshang Sahasipour
Sheet 2 of 6	Attorney Docket Number	7-0197	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7/8		Anonymous, "New & Old: Web-ready Camera Server, LAN Video Connects", Security Distributing & Marketing; April 1998; 28, 5; p. 58	
		Anonymous, "The Eye's Mind: the Brains Behind Online Monitoring", Security; Jun 1998; 35, 6; p. 68	
		ZALUD, Bill, "New & Old: Web-ready Camera Server, LAN Video", Security; Mar 1998; 35,3; p. 52	
		MESENBRINK, John, "Remote Video Surveillance: Breakthroughs Continue in LANs, WANs", Security Distributing & Marketing; Mar 2000; 30.4, p 23	
		MAHONEN, Petri, "Wireless Video Surveillance: System Concepts", Proceedings International Conference on Image Anaysis and Processing, ICIAP'99	
		COLOMBO, Ailan B., "Internet Video: Ride the Wave" Security Distributing & Marketing, Oct 2000; 30, 13, p. 71	
		Anonymous, "SIA Police Chiefs Call Meeting on Public CCTV Law", Security, Jan 1999; 35, 1, p. 52	
		MESENBRINK, John, "Remote Video Surveillance: The Best of Both Worlds", Security; Mar 2000; 37, 3, p. 37	
		Anonymous, "School District sets Video Surveillance Standard", Security, Jun 2000, 37, 6; p. 43	
		GOLD, Lessing E., "Remote Surveillance saves time, money", Security Distributing & Marketing, Jan 1999; 29, 1, p. 105	

Examiner Signature	<i>[Signature]</i>	Date Considered	2/14/08
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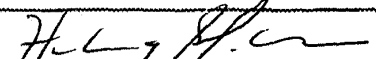
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Substitute for form 1443/PTO		Completes if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/336 470
		Filing Date	1-3-03
		First Named Inventor	Edward Monrose
		Art Unit	2625
		Examiner Name	Hanshang Safarpour
Sheet 3 of 20	Attorney Docket Number	C-7-0197	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7/8		Anonymous, "Video Security System Alternative", Community Banker; Sep 2000; 9,9, p. 52	
		ZALUD, Bill, "Conquering Digital Marks CCTV Inovations", Security, Apr 2000; 37, 4, p. 43	
		Anonymous, "Surveillance Cameras Harbour Racing Secrets", Security, Jan 2000; 37, 1, p. 29	
		EVERETT, H.R., LAIRD, R.T., GILBREATH, G., HEATH-PASTORE, T.A., INDERIEDEN, R.S., GRANT, K., JAFFEE, D.M., "Multiple Resource Host Architecture for the Mobile Detection Assessment and Response System", Space & Naval Warfare Systems Center; Technical Document 3026; Aug 1998	
		COLLINS, Robert T., LIPTON, Alan J., KANADE, Takeo, FUJIIYOSHI, Hirohobu, DUGGINS, David, TSIN, Yanghai, TOLLIVER, David, ENOMOTO, Nobuyoshi, HASEGAWA, Osamu, BURT, Peter,	
		WIXSON, Lambert, "A system for Video Surveillance and Monitoring", CMU-RI-TR-00-12; 2000 Carnegie Mellon University	
		WIGGINS, A.E., "Helsinki Journey Time Monitoring System", 12 May 1999 at IEE; CCTV and Road Surveillance	
		KUO, Chin-Hwa, WANG, Tay-Shen, "Design of Networked Visual Monitoring Systems", ISCAS 2000 - IEEE Int'l Symposium on Circuits and Systems, 5/28-31/00, pp 297-300	
		HARRISON, Ian, LUPTON, David, "Automatic Road Traffic Event Monitoring Information System (ARTEMIS)", 12 May 1999 at IEE; CCTV and Road Surveillance	

Examiner Signature		Date Considered	2/14/08
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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	10/336,470
		Filing Date	1-3-03
		First Named Inventor	David Monrose
		Art Unit	2625
		Examiner Name	Houshang Safaipoor
Sheet 4 of 20	Attorney Docket Number	7-0197	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	??
HS		BRADBURY, Spencer, "A Paper on Communications Protocols and Compression Techniques for Digital CCTV Applications" 12 May 1999 at IEE; CCTV and Road Surveillance	
HS		WUNNAVA, Subbarao V., DE LA CRUZ, Moises, "WEB Based Remote Security System (WRSS) Model Development", Proceedings of IEEE SE Con 2000, 4/7-9/00, pp 379-382	

Examiner Signature		Date Considered	2/14/08
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Substitute for form 1449/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/336470
		Filing Date	1-3-03
		First Named Inventor	David Monrice
		Art Unit	2625
		Examiner Name	Hansheng Safaipour
		Attorney Docket Number	7-0147
Sheet	5	of	12

NON PATENT LITERATURE DOCUMENTS			
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7/10		BRYAN, W.D., NGUYEN, H.G., GAGE, D.W., "Man-Portable Networked Sensor System," SPIE Cfr on Sensor Technology I/Soldier Systems, 04/98, SPIE Vol. 3394, pp 79-88	
		BALCH, Kris, "Replacing 16mm Airborne Film Cameras w/Commercial-Off-The-Shelf Digital imaging," SPIE Cfr - Digitization of Battlespace III, 04/98, SPIE Vol. 3393, pp 226-237	
		HATA, Tsukada, BOH, Satoru, TSUKADA, Akira, OZAKI, Minoru, "User interface using 3D model for video surveillance," SPIE Vol 3228, pp 238-246	
		YAMASHIRO, Zuiki, YOSHIADA, Toshihiro, "Utilizing Picture Information in the Traffic Field: The Intelligent Integrated ITV Systems (IITS), (IITS), Proceedings of the 1999 IEEE /IEEE/JSAI International Conference on Intelligent Transportation Systems, October 5-8, 1999, pp 224-229	
7/10		SATO, Kazuya, TSUKADA, Akihiro, MATSUDA, Fumio, KAWASAKI, Kaoru, OZAKI, Minoru, "Multimedia Systems for Industrial Surveillance," SPIE Vol 3020, pp 182-19.	
		MAEDA, Hiromi, "About the Internet as ITS" Proceedings of the 1999 IEEE/IEEE/JSAI International Conference on Intelligent Transportation Systems, October 5-8, 1999, pp 478-483	
		Infographics Systems, "Network Video Recorder eWave NVR Series Digital Recorder/Administrators Manual," 2001, pp 1-47	
✓		GAGE, Douglas W., BRYAN, W. Dale, NGUYEN, Hoa G., "Internetting tactical security sensor systems," SPIE Cfr Digitization of Battlespace III; 04/98, SPIE Vol 3393, pp 184-194	

Examiner Signature	<i>H. Safaipour</i>	Date Considered	2/14/08
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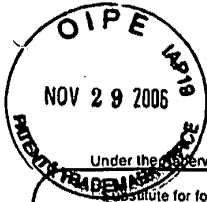
Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/336,470
		Filing Date	1-3-03
		First Named Inventor	DAVID MORRIS
		An Unit	2-625
		Examiner Name	Minusiang Sefairan
Sheet 6 of 6	Attorney Docket Number	7-0197	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7/8 ↓		KOHNO, Atsushi, HATA, Toshihiko, OZAKI, Minoru, "Moving Object Detection Method Using H.263 Video Coded Data for Remote Surveillance Systems" IS&T/SPIE Cir on Videometrics VI, 01/99, SPIE Vol. 3641, pp 247-258	
		GAGE, Douglas W., "Network Protocols for Mobile Robot Systems", SPIE Vol. 3210, pp 107-118	
		LAIRD, R.T., EVERETT, H.R., GILBREATH, G.A., HEATH-PASTORE, T.A., INDERIEDEN, R.S., "MDARS Multiple Robot Host Architecture", Assn. of Unmanned Vehicle Systems, 7/10-12/95	
		SMART, J., "Integrated Workstations for Reliable, Site-Independent Security Monitoring and Control", IEEE Publication CH22645-0/98/0000-0145; 1998; pp 145-149	

Examiner Signature	<i>[Signature]</i>	Date Considered	2/14/08
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PTO/SB/08A (09-06)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/336,470
	Filing Date	January 3, 2003
	First Named Inventor	David A. Monroe
	Art Unit	2625
	Examiner Name	Joseph R. Pokrzywa
	Attorney Docket Number	121817-002-042

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)			
JD		US- 4,163,283	07-31-1979	Darby	
		US- 4,179,695	12-18-1979	Levine, et al	
		US- 4,179,536	04-08-1980	Levine	
		US- 4,516,125	05-07-1985	Schwab, et al	
		US- 4,831,438	05-16-1989	Bellman, Jr., et al	
		US- 4,845,629	07-04-1989	Murge	
		US- 4,891,650	01-02-1990	Sheffer	
		US- 5,027,114	06-25-1991	Reid	
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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 ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JD		JP9-251599	04-06-1999	Masatake, et al		
		JP11-160424	06-18-1999	Tenpel		
		JP6-301898	10-28-1994	Hoover		
		JP9-282600	10-31-1997	Hasegawa, et al		
		EP209,397	07-07-1993	Murga, et al		
		EP220,752	05-06-1987	Julin, et al		

Examiner Signature	<i>Joseph R. Pokrzywa</i>	Date Considered	2/1/03
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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	10/336,470
		Filing Date	January 3, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Josenh R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	2	of	7

U. S. PATENT DOCUMENTS					
Examiner Initials ¹	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- 5,463,595	10-31-1995	Rodhall, et al	
		US- 5,497,149	03-05-1998	Fast	
		US- 5,530,440	06-25-1996	Denzer, et al	
		US- 5,557,254	09-17-1996	Johnson, et al	
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		US- 5,598,167	01-28-1997	Zjderhand	
		US- 5,612,668	03-18-1997	Scott	
		US- 5,629,691	05-13-1997	Jain	
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		US- 5,670,961	09-23-1997	tomote, et al	
		US- 5,677,979	10-14-1997	Squicciarini	
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		US- 5,742,336	04-12-1998	Lee	
		US- 5,777,580	07-07-1998	Hess	
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		US- 5,793,416	08-11-1998	Rostoker, et al	
	US- 5,825,283	10-20-1998	Camhi		
	US- 5,850,180	12-15-1998	Hess		

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Examiner Initials ¹	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 ² *Number *Kind Code ³ (if known)				
↓		EP613,110	08-31-1994	Hoover		
		EP613,111	08-31-1994	Hoover		
		EP744,630	11-27-1996	Atul		
		WO90/04242	04-19-1990	Norman, et al		
		WO98/52174	11-19-1998	Hatjasalo		
		EP532,110	03-17-1993	Raimondi		

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>2/14/08</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/336,470
		Filing Date	January 3, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	3	of	7

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
↓		US- 5,867,804	02-02-1999	Pilley, et al	
		US- 5,917,405	06-29-1999	Joso	
		US- 5,926,210	07-20-1999	Hackett, et al	
		US- 5,974,158	10-26-1999	Auty, et al	
		US- 5,983,161	11-09-1999	Lemelson, et al	
		US- 5,999,116	12-07-1999	Evers	
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		US- 6,462,697	10-08-2002	Klamer, et al	
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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
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
↓		EP785,536	07-23-1997	Ferri, et al		
		WO97/37336	10-09-1997	Auty, et al		
		EP232,031	08-12-1987	Hale		
		EP613,109	08-31-1994	Hoover		
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Examiner Signature		Date Considered	2/14/08
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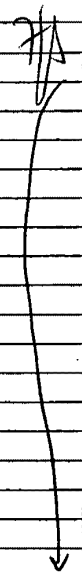
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/336,470
		Filing Date	January 5, 2005
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	4	of	7

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-	6,100,964	08-08-2000	De Cremlers	
		US-	5,714,948	02-03-1998	Farmakis, et al	
		US-	5,627,753	05-06-1997	Brankin, et al	
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		US-	5,440,337	08-08-1995	Henderson, et al	
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	US-	6,549,130	04-15-2003	Joso		
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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
		Country Code ³ * Number ⁴ * Kind Code ⁵ (if known)					

Examiner Signature		Date Considered	2/14/08
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	Application Number	10/336,470
	Filing Date	January 3, 2003
	First Named Inventor	David A. Monroe
	Art Unit	2625
	Examiner Name	Joseph R. Pokrzywa
Attorney Docket Number	121817.002.042	
Sheet	5	of 7

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		US- 5,666,157	09-09-1997	Avid	
		US- 6,424,370	07-23-2002	Courtney	
		US- 6,504,479	01-07-2003	Lemons	
		US- 6,628,835	09-30-2003	Brill	
		US- 6,646,676	11-11-2003	DeGrace	
		US- 6,002,427	12-14-1999	Kipust	
		US- 5,432,838	07-11-1995	Purchase	
		US- 6,385,772	05-07-2002	Courtney	
		US- 6,292,098	09-18-2001	Ebata	
		US- 5,642,285	06-24-1997	Woo	
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		US- 4,910,692	03-20-1990	Outram	
		US- 5,109,278	04-28-1992	Erickson	
		US- 5,509,009	04-16-1996	Laycock	
		US- 5,751,346	05-12-1998	Dozler	

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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<p style="text-align: center; font-weight: bold; margin: 0;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td>10/336,470</td> </tr> <tr> <td>Filing Date</td> <td>January 3, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>David A. Monroe</td> </tr> <tr> <td>Art Unit</td> <td>2625</td> </tr> <tr> <td>Examiner Name</td> <td>Josenh R. Pokrzywa</td> </tr> <tr> <td>Attorney Docket Number</td> <td>121817.002.042</td> </tr> </table>	Application Number	10/336,470	Filing Date	January 3, 2003	First Named Inventor	David A. Monroe	Art Unit	2625	Examiner Name	Josenh R. Pokrzywa	Attorney Docket Number	121817.002.042
Application Number	10/336,470												
Filing Date	January 3, 2003												
First Named Inventor	David A. Monroe												
Art Unit	2625												
Examiner Name	Josenh R. Pokrzywa												
Attorney Docket Number	121817.002.042												
Sheet <u>6</u> of <u>7</u>													

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		US- 6,009,356	12-28-1999	Monroe	
		US- 6,246,320	06-12-2001	Monroe	
		US- 6,356,625	03-12-2002	Castelani	
		US- 6,570,610	05-27-2003	Kipulst	
		US- 6,698,021	02-24-2004	Amini	
		US- 5,553,609	09-10-1996	Chen, et al	
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		US- 6,133,941	10-17-2000	Ono	
		US- 6,476,858	11-05-2002	Ramirez Diaz, et al	
		US- 6,522,352	02-18-2003	Liao, et al	
		US- 6,556,241	04-29-2003	Yoshimura, et al	
		US- 6,675,386	01-06-2004	Hendricks, et al	
		US- 6,720,990	04-13-2004	Walker, et al	
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Examiner Signature	Date Considered <u>2/14/08</u>
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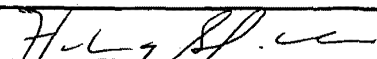
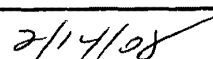
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		Filing Date	JANUARY #, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	7	of	7

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JS		April 1966, Apollo Unified S-Band System, NASA-Goddard Space Flight Center, Greenbelt, Maryland	
		November 24, 19976, TELEXIS ViaNet General Information Booklet Version 1.3	
		2000, ViaNet 3000 Administrator's Manual Version 1.1-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	
		1999, ViaNet 3000 Operator Manual Version 1.0 by TELEXIS-NetXpress Video, Kanta, Ontario, Canada	
		1999, viaNet 3000 Administrator Manual Version 1.0-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	
V		1999, ViaNet 3000 Instruction Manual Operator's Revision 1-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	

Examiner Signature		Date Considered	
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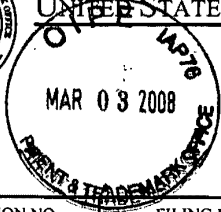
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/336,470	01/03/2003	David A. Monroe	07-0197	8448
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67589 7590 02/27/2008
 MOORE LANDREY
 1609 SHOAL CREEK BLVD
 AUSTIN, TX 78701

EXAMINER

SAFAIPOUR, HOUSHANG

ART UNIT	PAPER NUMBER
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2625

MAIL DATE	DELIVERY MODE
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02/27/2008 PAPER

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10336470	1/3/2003	MONROE, DAVID A.	07-0197

MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

EXAMINER

Houshang Safaipour

ART UNIT	PAPER
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2625

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 60

Complete if Known

Application Number	10/336,970
Filing Date	1-3-03
First Named Inventor	DAVID MORRIS
Art Unit	2425
Examiner Name	Hansheng Sakai-pour
Attorney Docket Number	7-0197

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS			
		Document Number Number-Kind Code ^{2,3} if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
[Signature]	US-	6 525 761 B2	02-25-2003	Mamoru Sato, et al	
	US-	7 113 971 B1	09-26-2006	Hirokazu Ohi, et al	
	US-				
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		Foreign Patent Document Country Code ¹ Number ¹ Kind Code ^{2,3} if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
[Signature]		JP-A-10-155040	06-09-1998	Nishin Danki	
		JP-HEI-10-65058	03-06-1998	Masanobu Kujirada	

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Substitute for form 3489/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/336,470
		Filing Date	1-3-03
		First Named Inventor	David Munnich
		Art Unit	2625
		Examiner Name	Houshang Sahai-pour
Sheet 2 of 6	Attorney Docket Number	7-0197	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7/8		Anonymous, "New & Old: Web-ready Camera Server, LAN Video Connects", Security Distributing & Marketing; April 1998; 28, 5; p. 58	
		Anonymous, "The Eye's Mind: the Brains Behind Online Monitoring", Security; Jun 1998; 35, 6; p. 68	
		ZALUD, Bill, "New & Old: Web-ready Camera Server, LAN Video", Security; Mar 1998; 35,3; p. 52	
		MESENBRINK, John, "Remote Video Surveillance: Breakthroughs Continue in LANs, WANS", Security Distributing & Marketing; Mar 2000; 30,4, p 23	
		MAHONEN, Petri, "Wireless Video Surveillance: System Concepts", Proceedings International Conference on Image Anaysis and Processing, ICIAP'99	
		COLOMBO, Allan B., "Internet Video: Ride the Wave" Security Distributing & Marketing, Oct 2000; 30, 13, p. 71	
		Anonymous, "SIA Police Chiefs Call Meeting on Public CCTV Law", Security, Jan 1999; 35, 1, p. 52	
		MESENBRINK, John, "Remote Video Surveillance: The Best of Both Worlds", Security; Mar 2000; 37, 3, p. 37	
		Anonymous, "School District sets Video Surveillance Standard", Security, Jun 2000, 37, 6; p. 43	
		GOLD, Lessing E., "Remote Surveillance saves time, money", Security Distributing & Marketing, Jan 1999; 29, 1, p. 105	

Examiner Signature		Date Considered	2/14/08
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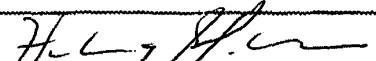
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/336 470
		Filing Date	1-3-03
		First Named Inventor	David Monrise
		Art Unit	2625
		Examiner Name	Houshang Safarpour
		Attorney Docket Number	07-0197
Sheet	3 of 20		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
H.S.		Anonymous, "Video Security System Alternative", Community Banker, Sep 2000; 9,9, p. 52	
		ZALUD, Bill, "Conquering Digital Marks CCTV Inovations", Security, Apr 2000; 37, 4, p. 43	
		Anonymous, "Surveillance Cameras Harbour Racing Secrets", Security, Jan 2000; 37, 1, p. 29	
		EVERETT, H.R., LAIRD, R.T., GILBREATH, G., HEATH-PASTORE, T.A., INDERIEDEN, R.S., GRANT, K., JAFFEE, D.M., "Multiple Resource Host Architecture for the Mobile Detection Assessment and Response System", Space & Naval Warfare Systems Center, Technical Document 3026; Aug 1998	
		COLLINS, Robert T., LIPTON, Alan J., KANADE, Takeo, FUJIIYOSHI, Hironobu, DUGGINS, David, TSIN, Yanghai, TOLLIVER, David, ENOMOTO, Nobuyoshi, HASEGAWA, Osamu, BURT, Peter,	
		WIXSON, Lambert, "A system for Video Surveillance and Monitoring", CMU-RI-TR-00-12; 2000 Carnegie Mellon University	
		WIGGINS, A.E., "Helsinki Journey Time Monitoring System", 12 May 1999 at IEE; CCTV and Road Surveillance	
		KUO, Chin-Hwa, WANG, Tay-Shen, "Design of Networked Visual Monitoring Systems", ISCAS 2000 - IEEE Int'l Symposium on Circuits and Systems, 5/28-31/00, pp 297-300	
		HARRISON, Ian, LUPTON, David, "Automatic Road Traffic Event Monitoring Information System (ARTEMIS)", 12 May 1999 at IEE; CCTV and Road Surveillance	

Examiner Signature		Date Considered	2/14/08
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	1/0/336470
		Filing Date	1-3-03
		First Named Inventor	Dominic Monrose
		Art Unit	2625
		Examiner Name	Koushang Safaipoor
		Attorney Docket Number	7-0197
Sheet	5	of	16

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7/10		BRYAN, W.D., NGUYEN, H.G., GAGE, D.W., "Man-Portable Networked Sensor System," SPIE Cfr on Sensor Technology //Soldier Systems, 04/98, SPIE Vol. 3394, pp 79-88	
		BALCH, Kris, "Replacing 16mm Airborne Film Cameras w/Commercial-Off-The-Shelf Digital Imaging," SPIE Cfr - Digitization of Battlespace III, 04/98, SPIE Vol. 3393, pp 226-237	
		HATA, Tsukada, BOH, Satoru, TSUKADA, Akira, OZAKI, Minoru, "User interface using 3D model for video surveillance," SPIE Vol 3228, pp 238-246	
		YAMASHIRO, Zuiki, YOSHIADA, Toshihiro, "Utilizing Picture Information in the Traffic Field: The Intelligent Integrated ITV Systems (IIS), (IITS), Proceedings of the 1999 IEEE /IEEE/JSAI International Conference on Intelligent Transportation Systems, October 5-8, 1999, pp 224-229	
7/10		SATO, Kazuya, TSUKADA, Akihiro, MATSUDA, Fumio, KAWASAKI, Kaoru, OZAKI, Minoru, "Multimedia Systems for Industrial Surveillance," SPIE Vol 3020, pp 182-19	
		MAEDA, Hiromi, "About the Internet as ITS" Proceedings of the 1999 IEEE/JSAI International Conference on Intelligent Transportation Systems, October 5-6, 1999, pp 478-483	
		Infographics Systems, "Network Video Recorder eWave NVR Series Digital Recorder/Administrators Manual," 2001, pp 1-47	
↓		GAGE, Douglas W., BRYAN, W. Dale, NGUYEN, Hoa G., "Intermetting tactical security sensor systems," SPIE Cfr Digitization of Battlespace III; 04/98, SPIE Vol 3393, pp 184-194	

Examiner Signature	<i>Henry G. ...</i>	Date Considered	2/14/03
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 16 of 16

Completes if Known

Application Number	10/336 470
Filing Date	1-3-03
First Named Inventor	David Monroe
Art Unit	2625
Examiner Name	Houshang Safarpour
Attorney Docket Number	7-0197

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
H/S		KOHNO, Atsushi, HATA, Toshiniko, OZAKI, Minor, "Moving Object Detection Method Using H.263 Video Coded Data for Remote Surveillance Systems" IS&T/SPIE Cir on Videometrics VI, 01/99, SPIE Vol. 3641, pp 247-258	
		GAGE, Douglas W., "Network Protocols for Mobile Robot Systems", SPIE Vol. 3210, pp 107-118	
		LAIRD, R.T., EVERETT, H.R., GILBREATH, G.A., HEATH-PASTORE, T.A., INDERIEDEN, R.S., "MDARS Multiple Robot Host Architecture", Assn. of Unmanned Vehicle Systems, 7/10-12/95	
		SMART, J., "Integrated Workstations for Reliable, Site-Independent Security Monitoring and Control"; IEEE Publication CH22645-0/88/0000-0145; 1998; pp 145-149	

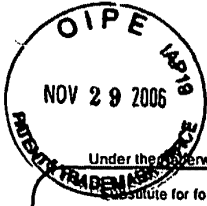
Examiner Signature	<i>Houshang Safarpour</i>	Date Considered	2/14/08
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Substitute for form 1449/PTO		Complete if Known	
	Application Number	10/336,470	Filing Date	January 3, 2003
First Named Inventor	David A. Monroe			
Art Unit	2625			
Examiner Name	Joseph R. Pokrzywa			
Attorney Docket Number	121817.002.042			

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)			
[Signature]	US-	4,163,283	07-31-1979	Darby	
	US-	4,179,695	12-18-1979	Levine, et al	
	US-	4,179,536	04-08-1980	Levine	
	US-	4,516,125	05-07-1985	Schwab, et al	
	US-	4,831,438	05-16-1989	Bellman, Jr., et al	
	US-	4,845,629	07-04-1989	Murge	
	US-	4,891,650	01-02-1990	Sheffer	
	US-	5,027,114	06-25-1991	Reid	
	US-	5,027,114	06-25-1991	Kawashime, et al	
	US-	5,166,746	11-24-1992	Sato, et al	
	US-	5,218,367	06-08-1993	Sheffer, et al	
	US-	5,243,340	09-07-1993	Norman, et al	
	US-	5,283,643	02-10-1994	Fujimoto	
	US-	5,321,615	06-14-1994	Frisbie, et al	
	US-	5,334,982	08-02-1994	Owen	
	US-	5,351,194	09-27-1994	Rose, et al	
	US-	5,400,031	03-21-1995	Fitts	
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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 ³ Number ⁴ Kind Code ⁵ (if known)				
[Signature]	JP9-	251599	04-06-1999	Masatake, et al		
	JP11-	160424	06-18-1999	Tenpei		
	JP6-	301898	10-28-1994	Hoover		
	JP9-	282600	10-31-1997	Hasegawa, et al		
	EP209,	397	07-07-1993	Murga, et al		
	EP220,	752	05-06-1987	Julin, et al		

Examiner Signature	[Signature]	Date Considered	2/14/03
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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>	<p style="text-align: center;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Application Number</td> <td>10/336,470</td> </tr> <tr> <td>Filing Date</td> <td>January 3, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>David A. Monroe</td> </tr> <tr> <td>Art Unit</td> <td>2625</td> </tr> <tr> <td>Examiner Name</td> <td>Josenh R. Pokrzywa</td> </tr> <tr> <td>Attorney Docket Number</td> <td>121817.002.042</td> </tr> </table>	Application Number	10/336,470	Filing Date	January 3, 2003	First Named Inventor	David A. Monroe	Art Unit	2625	Examiner Name	Josenh R. Pokrzywa	Attorney Docket Number	121817.002.042
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First Named Inventor	David A. Monroe												
Art Unit	2625												
Examiner Name	Josenh R. Pokrzywa												
Attorney Docket Number	121817.002.042												
Sheet <u>2</u> of <u>7</u>													

U. S. PATENT DOCUMENTS					
Examiner Initials ¹	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- 5,463,595	10-31-1995	Rodhall, et al	
		US- 5,497,149	03-05-1998	Fast	
		US- 5,530,440	06-25-1996	Denzer, et al	
		US- 5,557,254	09-17-1996	Johnson, et al	
		US- 5,557,278	09-17-1996	Piccirillo, et al	
		US- 5,598,167	01-28-1997	Zjderhand	
		US- 5,612,668	03-18-1997	Scott	
		US- 5,629,691	05-13-1997	Jain	
		US- 5,636,122	06-03-1997	Shah, et al	
		US- 5,670,961	09-23-1997	tomote, et al	
		US- 5,677,979	10-14-1997	Squicciarini	
		US- 5,712,679	01-27-1998	Coles	
		US- 5,712,899	01-27-1998	Pace, II	
		US- 5,742,336	04-12-1998	Lee	
		US- 5,777,580	07-07-1998	Hess	
		US- 5,777,580	07-07-1998	Janky, et al	
		US- 5,793,416	08-11-1998	Rostoker, et al	
		US- 5,825,283	10-20-1998	Camhl	
	US- 5,850,180	12-15-1998	Hess		

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	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 ⁴
		Country Code ³ Number * Kind Code ² (if known)	MM-DD-YYYY			
↓		EP613,110	08-31-1994	Hoover		
		EP613,111	08-31-1994	Hoover		
		EP744,630	11-27-1996	Atul		
		WO90/04242	04-19-1990	Norman, et al		
		WO98/52174	11-19-1998	Hajjasalo		
		EP532,110	03-17-1993	RalmondI		

Examiner Signature	Date Considered	2/14/03
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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	10/336,470
		Filing Date	January 3, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	5	of	7

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- 5,867,804	02-02-1999	Pilley, et al	
		US- 5,917,405	06-29-1999	Joso	
		US- 5,926,210	07-20-1999	Hackett, et al	
		US- 5,974,158	10-26-1999	Auty, et al	
		US- 5,983,161	11-09-1999	Lemelson, et al	
		US- 5,999,116	12-07-1999	Evers	
		US- 6,084,510	07-04-2000	Lemelson, et al	
		US- 6,092,008	07-18-2000	Bateman	
		US- 6,154,658	11-28-2000	Caci	
		US- 6,157,317	12-05-2000	Walker	
		US- 6,181,373	01-30-2001	Coles	
		US- 6,195,609	02-27-2001	Pilley, et al	
		US- 6,226,031	05-01-2001	Barraciough, et al	
		US- 6,275,231	08-14-2001	Obradovich	
		US- 6,278,965	08-21-2001	Glass, et al	
		US- 6,282,488	08-28-2001	Castor, et al	
		US- 6,462,697	10-08-2002	Klamer, et al	
		US- 5,933,098	08-03-1999	Haxton	
		US- 5,689,442	11-18-1997	Swanson	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
↓		EP785,536	07-23-1997	Ferri, et al		
		WO97/37336	10-09-1997	Auty, et al		
		EP232,031	08-12-1987	Hale		
		EP613,109	08-31-1994	Hoover		
		WO96/12265	04-25-1996	Millgard		
		WO95/27910	10-19-1995	Wallis		

Examiner Signature	<i>J. R. Pokrzywa</i>	Date Considered	2/14/08
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/336,470
		Filing Date	January 3, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	4	of	7

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- 6,100,964	08-08-2000	De Cremlers	
		US- 5,714,948	02-03-1998	Farmakis, et al	
		US- 5,627,753	05-06-1997	Brankin, et al	
		US- 4,857,912	08-15-1989	Everett, Jr., et al	
		US- 6,259,475	07-10-2001	Ramachandran, et al	
		US- 5,440,337	08-08-1995	Henderson, et al	
		US- 6,282,488	08-28-2001	Castor, et al	
		US- 5,508,736	04-16-1996	Cooper	
		US- 5,469,371	11-21-1995	Bess	
		US- 5,243,530	09-07-1993	Stanifer, et al	
		US- 5,268,698	12-07-1993	Smith, Sr., et al	
		US- 5,835,059	11-10-1998	Nadel, et al	
		US- 2003/0071899	04-17-2003	Joso	
		US- 2005/0055727	03-10-2005	Creamer, et al	
		US- 6,662,649	12-16-2003	Knight, et al	
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		US- 6,078,850	06-2-2000	Kane, et al	
		US- 6,549,130	04-15-2003	Joso	
		US- 5,091,780	02-25-1992	Pomarleau	

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	† ⁵
		Country Code ³ *Number ⁴ *Kind Code ⁶ (if known)				

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		Filing Date	January 3, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	5 of 7		

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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)			
H ↓ V		US- 5,666,157	09-09-1997	Avid	
		US- 6,424,370	07-23-2002	Courtney	
		US- 6,504,479	01-07-2003	Lemons	
		US- 6,628,835	09-30-2003	Brill	
		US- 6,646,676	11-11-2003	DeGrace	
		US- 6,002,427	12-14-1999	Kipust	
		US- 5,432,838	07-11-1995	Purchase	
		US- 6,385,772	05-07-2002	Courtney	
		US- 6,292,098	09-18-2001	Ebata	
		US- 5,642,285	06-24-1997	Woo	
		US- 5,557,278	09-17-1996	Piccirillo	
		US- 2005/0138083 A1	06-16-2005	Rastegar	
		US- 6,069,655	05-03-2000	Seeley	
		US- 5,440,343	08-08-1995	Parulski	
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		US- 5,109,278	04-28-1992	Erickson	
		US- 5,509,009	04-16-1996	Laycock	
	US- 5,751,346	05-12-1998	Dozier		

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 ⁴ Kind Code ⁵ (if known)				

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		Art Unit	2625
		Examiner Name	Josenh R. Pokrzywa
		Attorney Docket Number	121817.002.042
Sheet	6 of 7		

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		Number-Kind Code ² (# known)			
↓		US- 6,009,356	12-28-1999	Monroe	
		US- 6,246,320	06-12-2001	Monroe	
		US- 6,356,625	03-12-2002	Castelani	
		US- 6,570,610	05-27-2003	Kipulst	
		US- 6,698,021	02-24-2004	Amini	
		US- 5,553,609	09-10-1996	Chen, et al	
		US- 6,067,571	05-23-2000	Igarashi, et al	
		US- 6,133,941	10-17-2000	Ono	
		US- 6,476,858	11-05-2002	Ramirez Diaz, et al	
		US- 6,522,352	02-18-2003	Liao, et al	
		US- 6,556,241	04-29-2003	Yoshimura, et al	
		US- 6,675,386	01-06-2004	Hendricks, et al	
		US- 6,720,990	04-13-2004	Walker, et al	
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		Application Number	10/336,480
		Filing Date	JANUARY #, 2003
		First Named Inventor	David A. Monroe
		Art Unit	2625
		Examiner Name	Joseph R. Pokrzywa
Sheet	7	of	7
		Attorney Docket Number	121817.002.042

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		April 1966, Apollo Unified S-Band System, NASA-Goddard Space Flight Center, Greenbelt, Maryland	
		November 24, 19976, TELEXIS ViaNet General Information Booklet Version 1.3	
		2000, ViaNet 3000 Administrator's Manual Version 1.1-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	
		1999, ViaNet 3000 Operator Manual Version 1.0 by TELEXIS-NetXpress Video, Kanta, Ontario, Canada	
		1999, viaNet 3000 Administrator Manual Version 1.0-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	
		1999, ViaNet 3000 Instruction Manual Operator's Revision 1-NetXpress Video by TELEXIS, Kanata, Ontario, Canada	

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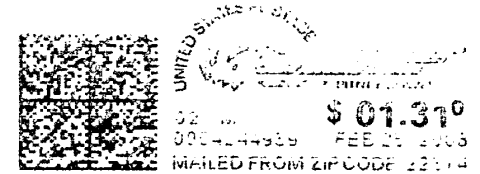
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Handwritten signature of Jeffrey D. Hunt, dated 03-18-2008.

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Values: 10/336,470, 01/03/2003, David A. Monroc, 07-0197, 8448

TITLE OF INVENTION: APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM

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, NO, \$1440, \$300, \$0, \$1740, 03/27/2008

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS. Values: SAFAIPOUR, HOUSHANG, 2625, 358-474000

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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, Advance Order. 4b. Payment of Fee(s): 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.

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: Jeffrey D. Hunt Date: March 18, 2008 Registration No. 38,189

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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PART B - FEE(S) TRANSMITTAL

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

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

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

67580 7590 12/27/2007 MOORE LANDREY 1609 SHOAL CREEK BLVD AUSTIN, TX 78701

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

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

Handwritten signature: Jeffrey D. Hunt, Date: 3/18/2008

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Values: 10/336,470, 01/03/2003, David A. Monroc, 07-0197, 8448

TITLE OF INVENTION: APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM

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, NO, \$1440, \$300, \$0, \$1740, 03/27/2008

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS. Values: SAFAIPOUR, HOUSHANG, 2625, 358-474000

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. (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, Advance Order. 4b. Payment of Fee(s): Payment by credit card. Form PTO-2038 is attached.

5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. b. Applicant is no longer claiming SMALL ENTITY status.

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: Jeffrey D. Hunt, Date: March 18, 2008, Registration No. 38,489

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Moore Landrey, L.L.P.

Attorneys at Law
1609 Shoal Creek Blvd., Ste. 100
Austin, Texas 78701
Telephone (512) 499-8900
Facsimile (512) 320-8906

DATE: 3/18/08

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FROM: Jeffrey D. Hunt / Renate

NUMBER OF PAGES (INCLUDING THIS PAGE): 2

OUR CHARGE NUMBERS: ATTORNEY _____ ML FILE NUMBER: _____

SPECIAL NOTES

As instructed in our phone conversation earlier this morning, please find attached the Fee Transmittal for Appl. 10,336,470 / docket no. 07-0197.

THIS FAX IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF YOU ARE NOT THE INTENDED RECIPIENT, ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL FAX TO US AT THE ABOVE ADDRESS BY THE U.S. POSTAL SERVICE.

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United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/336,470	04/29/2008	7365871	07-0197	8448

67589 7590 04/09/2008
MOORE LANDREY
1609 SHOAL CREEK BLVD
AUSTIN, TX 78701

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 0 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):

David A. Monroe, San Antonio, TX;

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

Substitute for form 1449/PTO <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	
		Application Number	10/336,470
		Filing Date	2003-01-03
		First Named Inventor	David A Monroe
		Art Unit	2625
		Examiner Name	Safaipour, Houshang
		Attorney Docket Number	07-0197
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- 5,136,628	08-04-1992	Araki et al.	
		US- 5,164,979	11-17-1992	Choi et al.	
		US- 5,400,068	03-21-1995	Ishida et al.	
		US- 7,372,447	05-13-2008	Jacobsen et al.	
		US- 5,042,061	08-20-1991	Kaneko et al.	
		US- 5,485,504	01-16-1996	Ohnsorge	
		US- 7,310,072	12-18-2007	Ronzani et al.	
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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 ⁴ -Kind Code ⁵ (if known)				
		JP03089691	04-15-1991	Yamamoto		

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

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

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

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **03-089691**

(43)Date of publication of application : **15.04.1991**

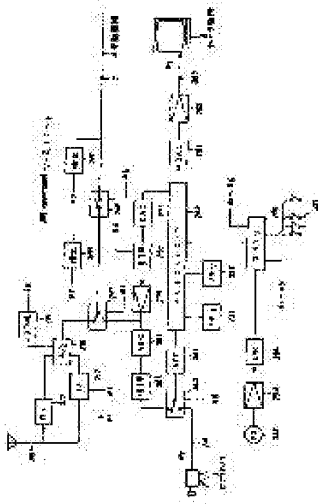
(51)Int.Cl.

H04N 7/14

(21)Application number : **01-225686** (71)Applicant : **SONY CORP**

(22)Date of filing : **31.08.1989** (72)Inventor : **YAMAMOTO TADAHISA**

(54) VIDEO TELEPHONE SET



(57)Abstract:

PURPOSE: To improve operability and convenience of use by dividing a video telephone set into a handset and a base unit, adopting the wireless system for the handset and mounting externally a video camera and a display device to the base unit.

CONSTITUTION: A video telephone set is divided into a handset 100 and a base unit 200, and a camera 5 and a television receiver 6 are integrated with the base unit 200. Then it is devised that processings such as an outgoing call, an incoming call, talking, pickup of a picture to be sent to a party opposite, transmission of a picture data and display of picture data from the party opposite are executed from the handset 100. Since an opposite picture is displayed on a television receiver 6 with a large screen size, detailed communication is realized. Moreover, since the camera 5 is mounted externally, various

kinds of cameras such as a camera with an automatic iris mechanism can be used and the picture quality is improved.

Electronic Acknowledgement Receipt

EFS ID:	5324954
Application Number:	10336470
International Application Number:	
Confirmation Number:	8448
Title of Invention:	APPARATUS FOR CAPTURING, CONVERTING AND TRANSMITTING A VISUAL IMAGE SIGNAL VIA A DIGITAL TRANSMISSION SYSTEM
First Named Inventor/Applicant Name:	David A. Monroe
Customer Number:	67589
Filer:	Jeffrey Darryl Hunt/Jacob Cowart
Filer Authorized By:	Jeffrey Darryl Hunt
Attorney Docket Number:	07-0197
Receipt Date:	13-MAY-2009
Filing Date:	03-JAN-2003
Time Stamp:	11:00:02
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	Information Disclosure Statement (IDS) Filed (SB/08)	07-0197.pdf	271554 <small>7ec2c0f5208bde11feb5ca8fcc672509567405a6</small>	no	2

Warnings:

Information:

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2	Foreign Reference	Yamamoto.pdf	36974	no	1
			8f9e525f9f13d769faf658147415f14ab6857d83		

Warnings:

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Total Files Size (in bytes):	308528
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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.



JFW

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POWER OF ATTORNEY OR REVOCAION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	10/336,470 ✓
	Filing Date	01-03-2003
	First Named Inventor	David A. Monroe
	Title	APPARATUS FOR CAPTURING, CONVERTING AND TRA
	Art Unit	2625
	Examiner Name	SAFAIPOUR, HOUSHANG
	Attorney Docket Number	07-0197

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: 76731
 OR
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Practitioner(s) Name	Registration Number

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

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 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 016824/0514

SIGNATURE of Applicant or Assignee of Record

Signature		Date	2/22/2014
Name	David A. Monroe	Telephone	832-573-1442
Title and Company	President, E-Watch 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 1 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.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/336,470	01/03/2003	David A. Monroe	07-0197

CONFIRMATION NO. 8448

POA ACCEPTANCE LETTER

76731
Robert C. Curfiss
Law Office of Robert Curfiss
19826 Sundance Drive
Humble, TX 77346-1402



Date Mailed: 03/17/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/07/2011.

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.

/s/brahim/

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



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/336,470	01/03/2003	David A. Monroe	07-0197

CONFIRMATION NO. 8448

POWER OF ATTORNEY NOTICE

67589
MOORE LANDREY
1609 SHOAL CREEK BLVD
SUITE 100
AUSTIN, TX 78701



Date Mailed: 03/17/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/07/2011.

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

/s/brahim/

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

17









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97112020

16

SH 4DB

[0-16] SH 3

SH 3

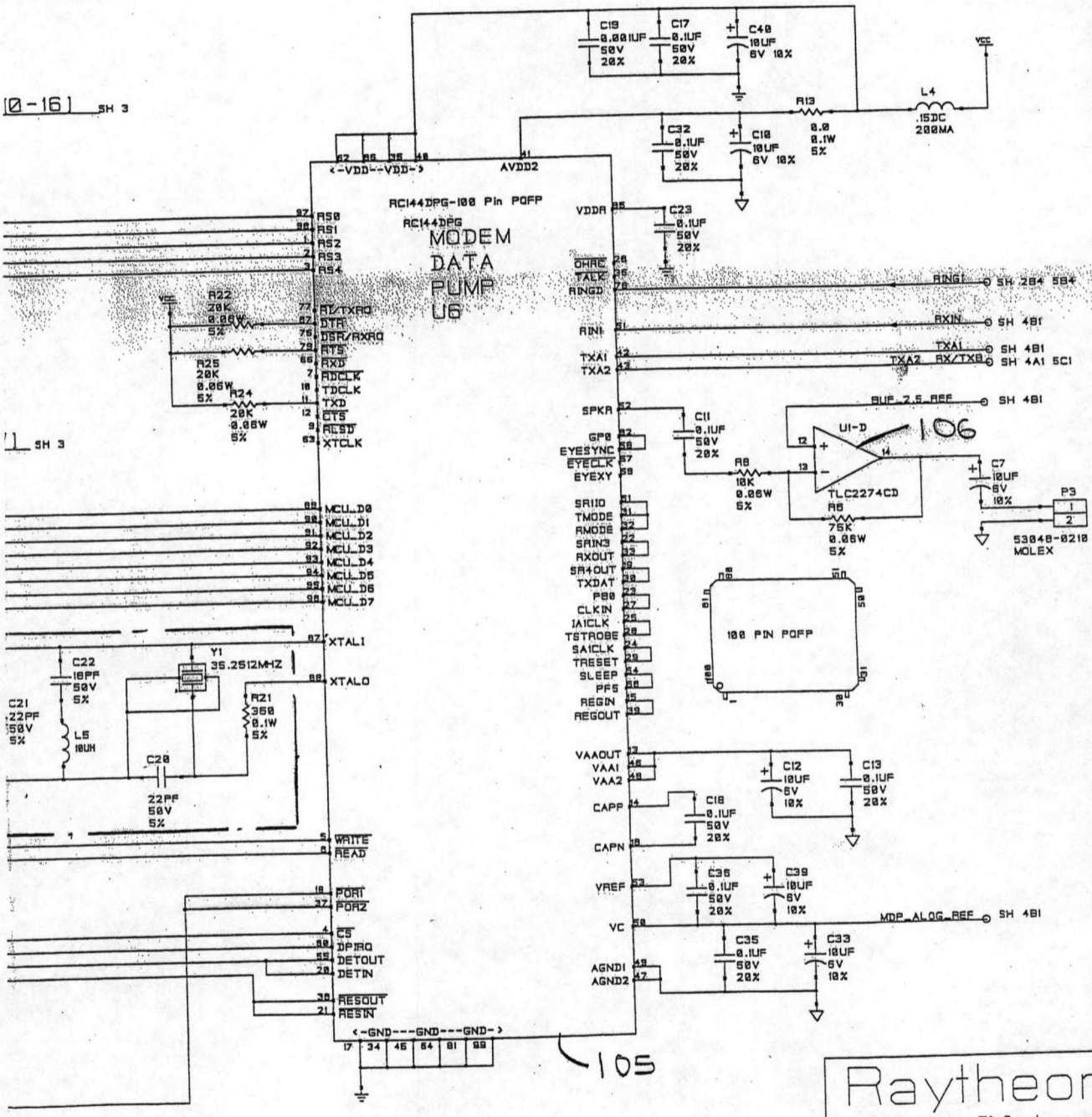
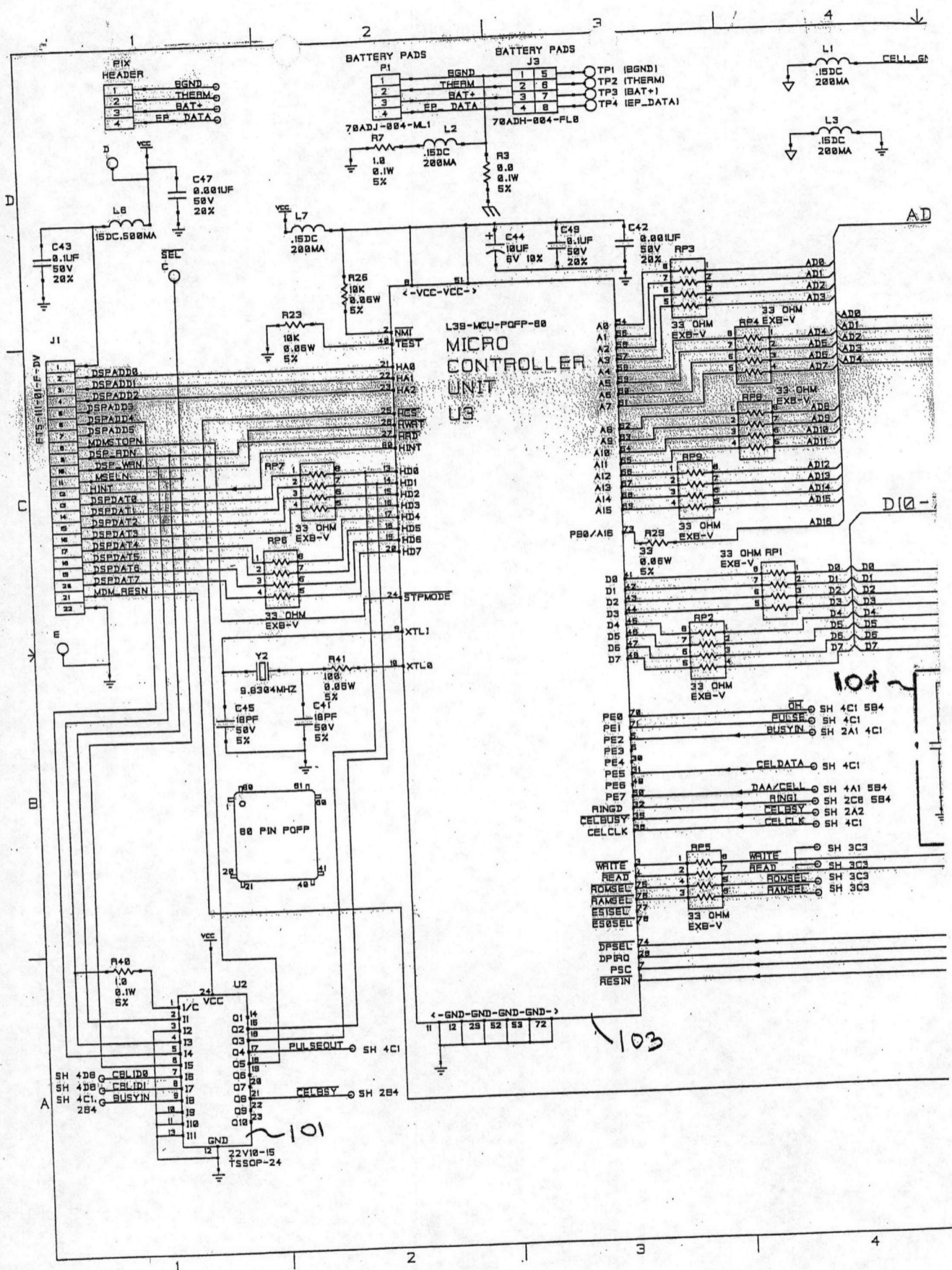


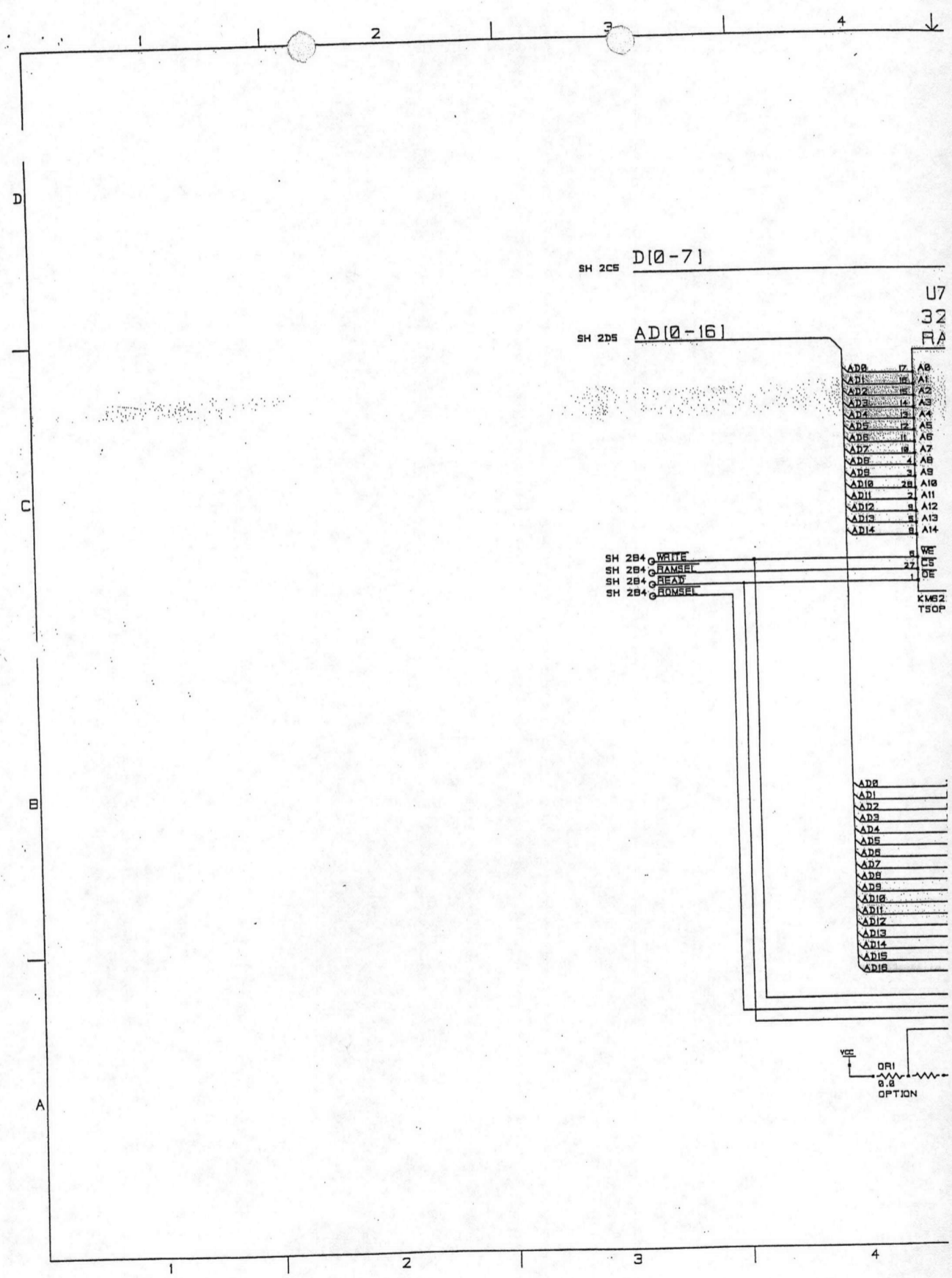
Fig. 5 Part A

Raytheon
Raytheon TI Systems

TITLE SCH DIA..MICRO-RIT
MODEM BOARD

D	PART NO.	REV
	SCH-9209-001	PD
SCALE	FILE NAME	LAST EDIT
NONE	9209_PC.SCM	13OCT97
		SHEET NO.
		2 OF 5





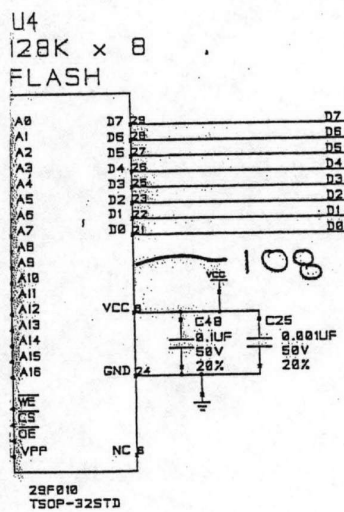
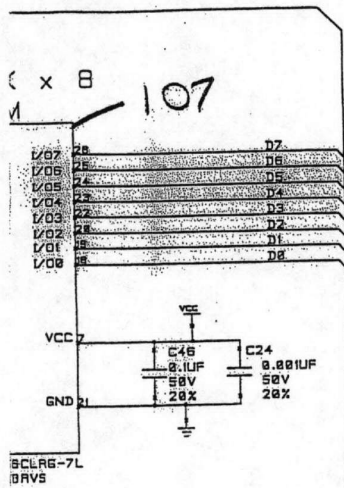
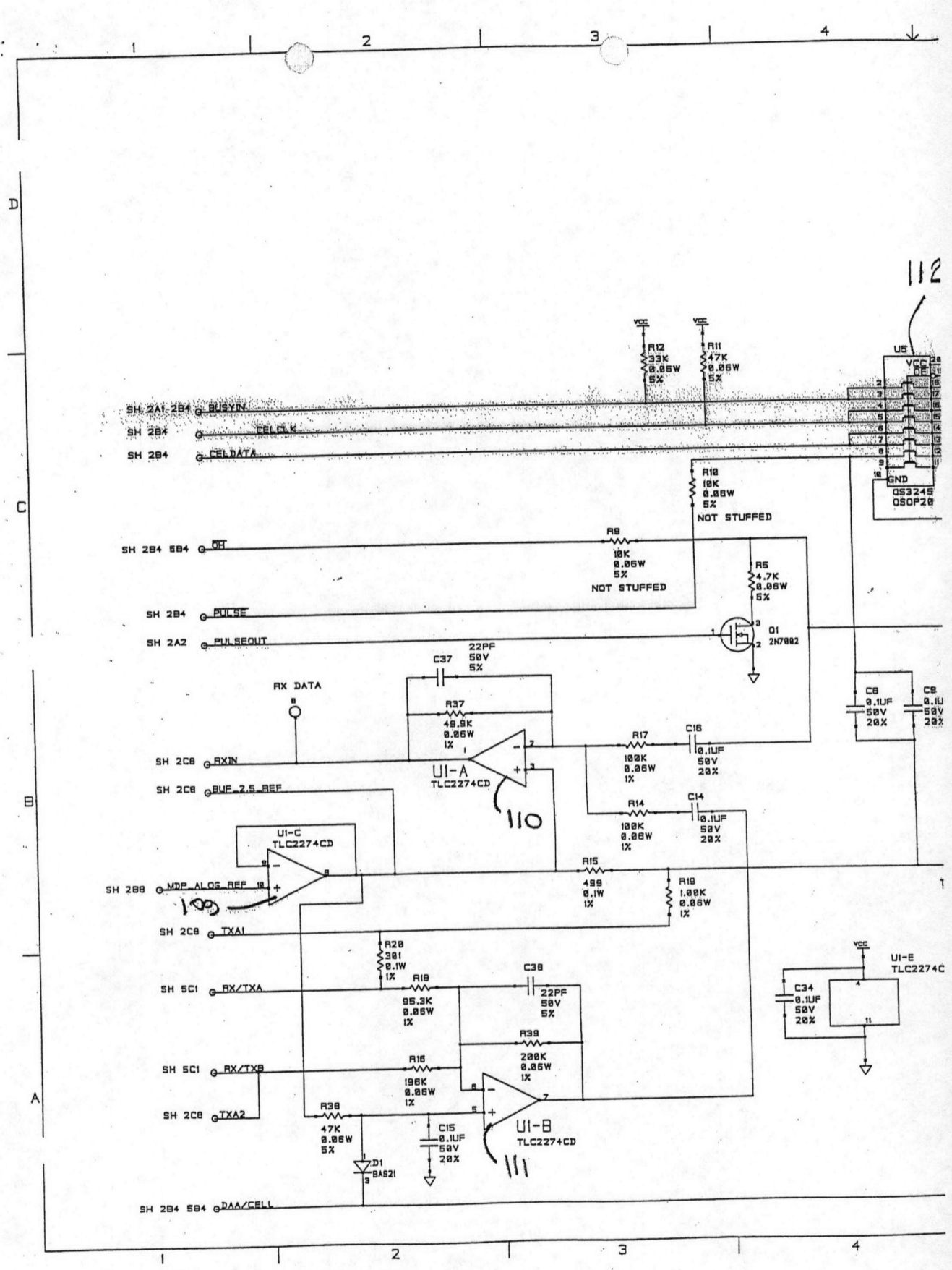


FIG. 5
Part B

Raytheon			
Raytheon TI Systems			
TITLE SCH DIA..MICRO-RIT MODEM BOARD			
D	PART NO. SCH-9209-001	REV. PD	REV. NO. 3 OF 5
SCALE NONE	FILE NAME 9209_PC.SCM	LAST EDIT 13OCT87	SHEET NO. 3 OF 5



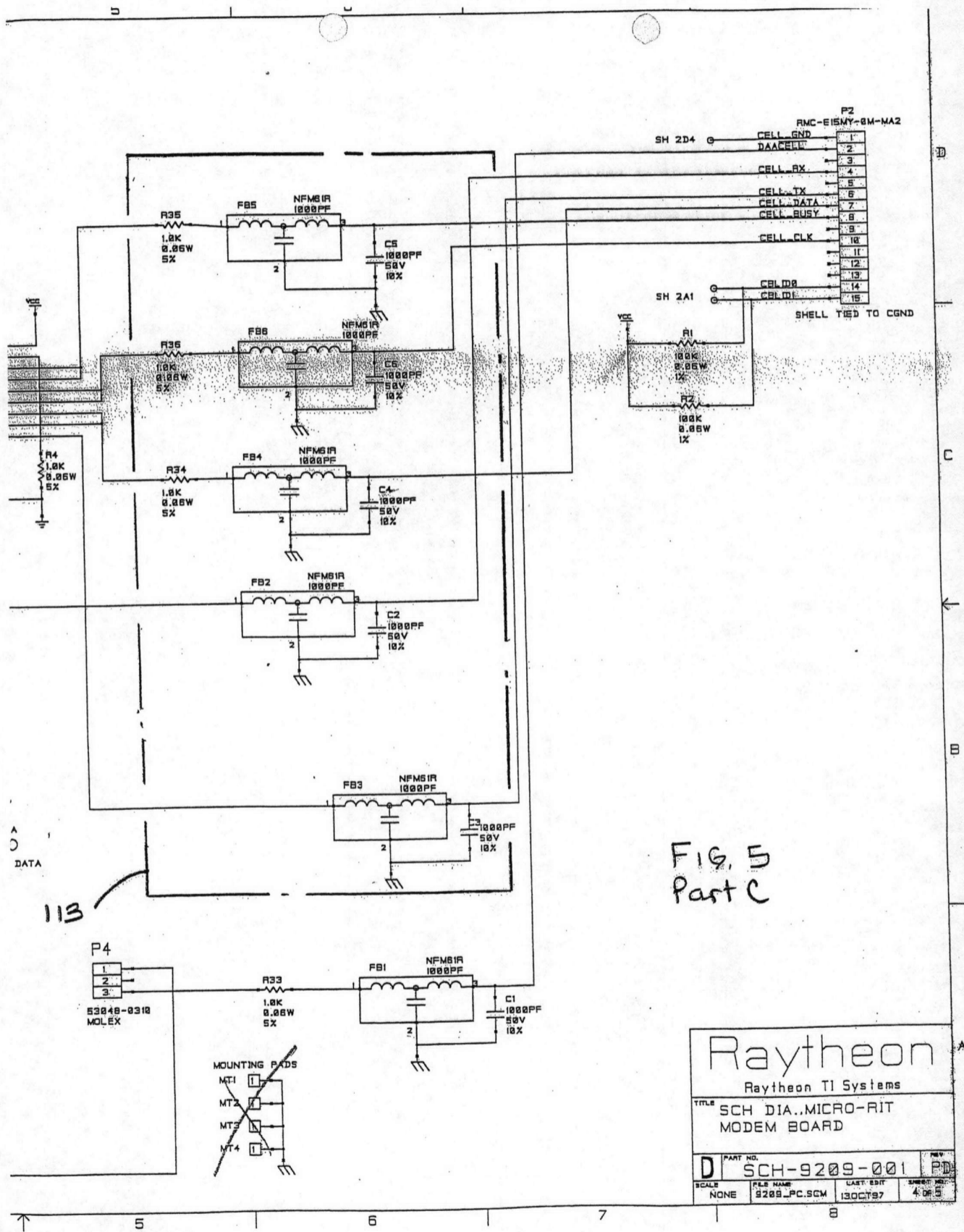
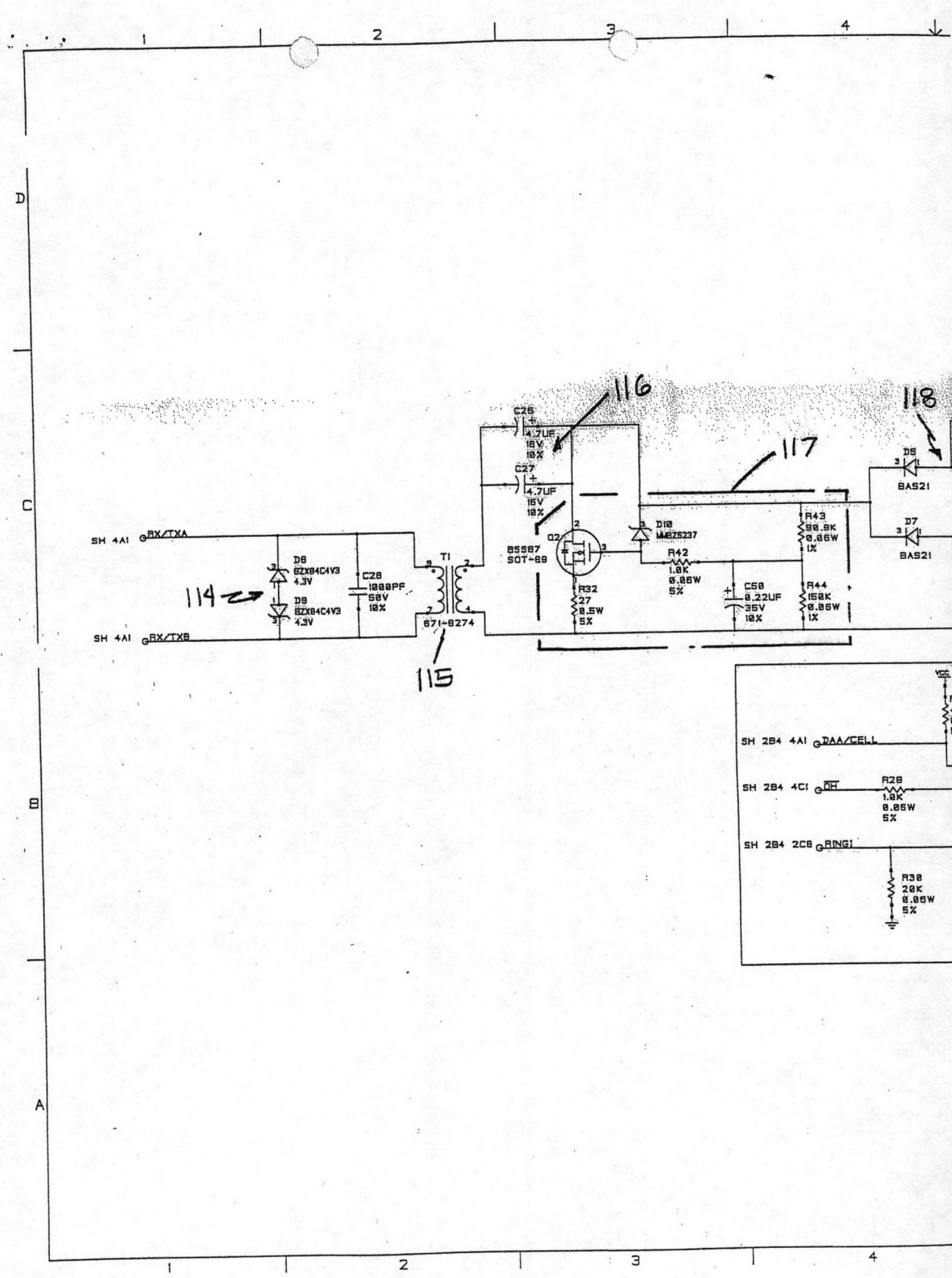


FIG. 5
Part C

Raytheon
 Raytheon TI Systems
 TITLE
 SCH DIA..MICRO-RIT
 MODEM BOARD
 PART NO.
 SCH-9209-001
 SCALE NONE FILE NAME 9209_PC.SCM LAST EDIT 13OCT97 SHEET NO. 4 OF 5



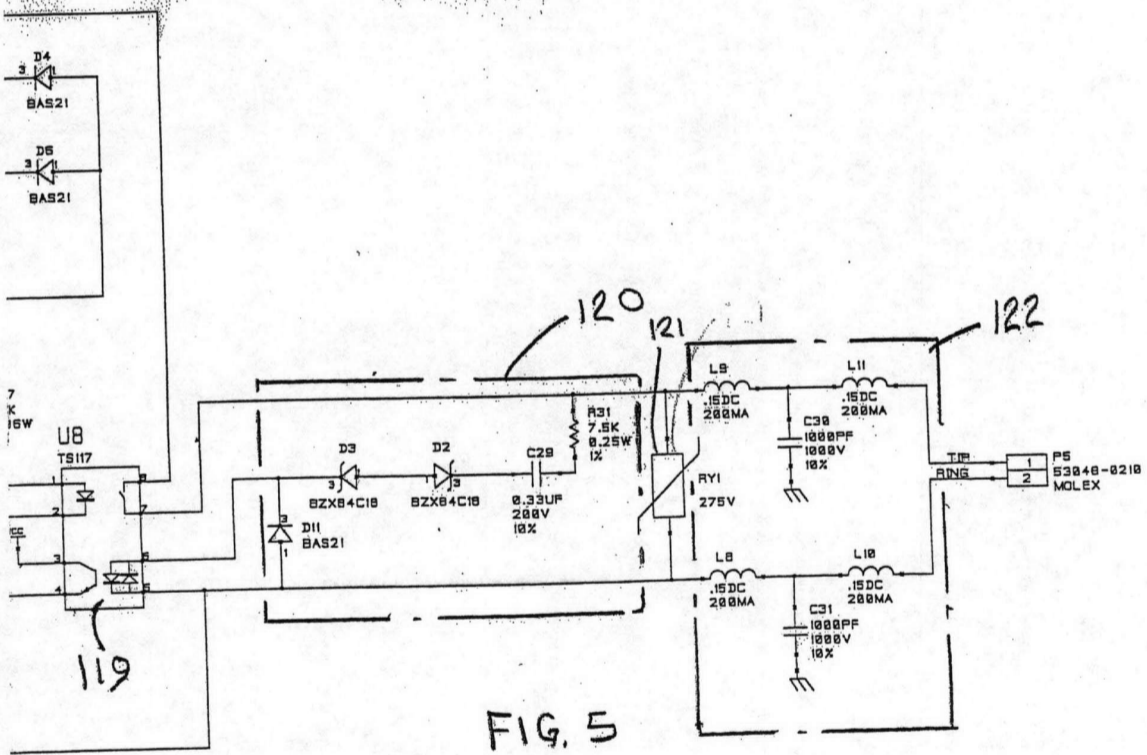


FIG. 5
Part D

<h1>Raytheon</h1> <p>Raytheon TI Systems</p>			
TITLE SCH DIA..MICRO-RIT MODEM BOARD			
D	PART NO.	REV	PD
SCALE	FILE NAME	LAST EDIT	SHEET NO.
NONE	9209_PC.SCM	13OCT87	5 OF 5

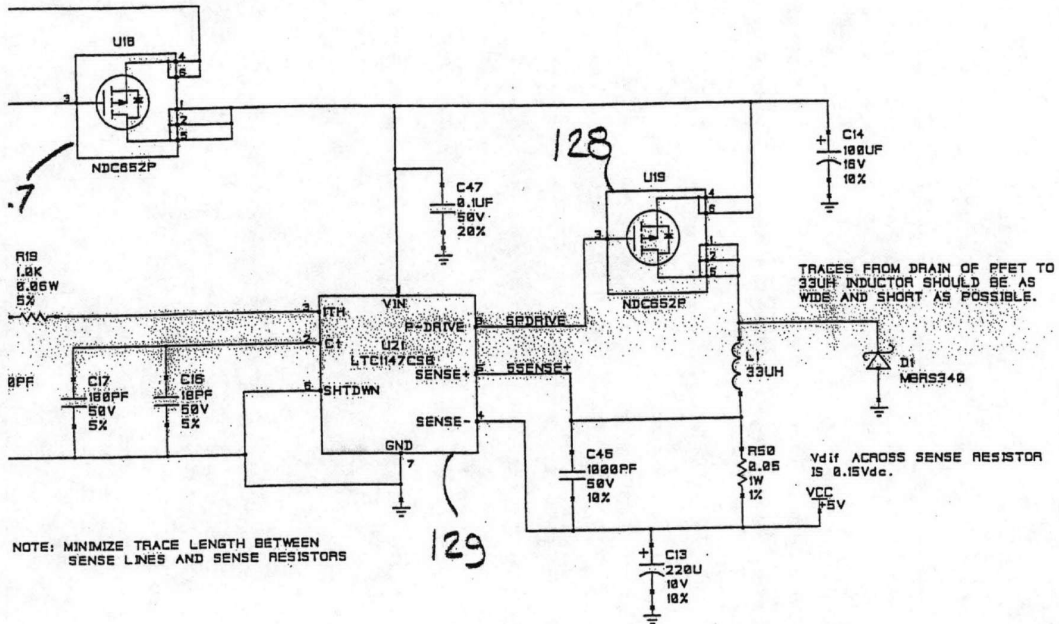
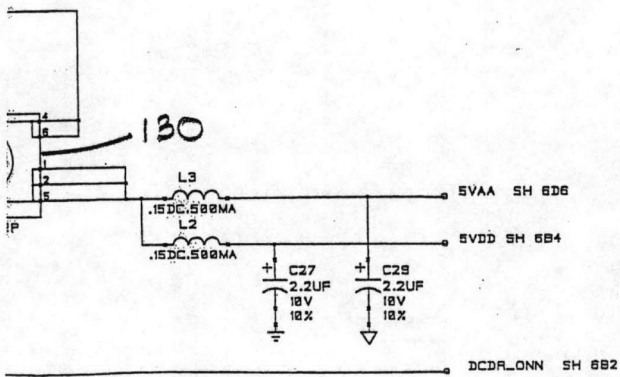
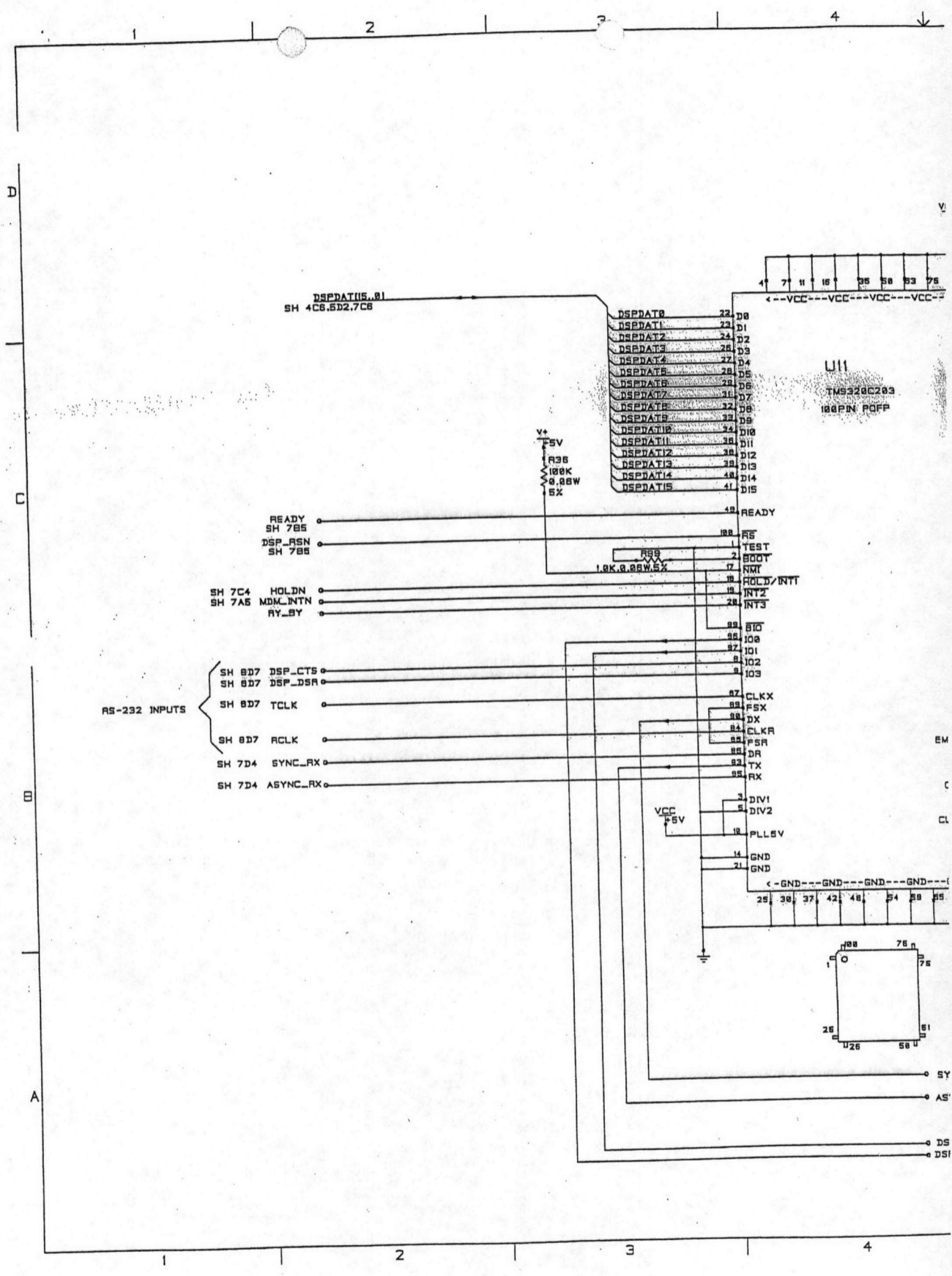


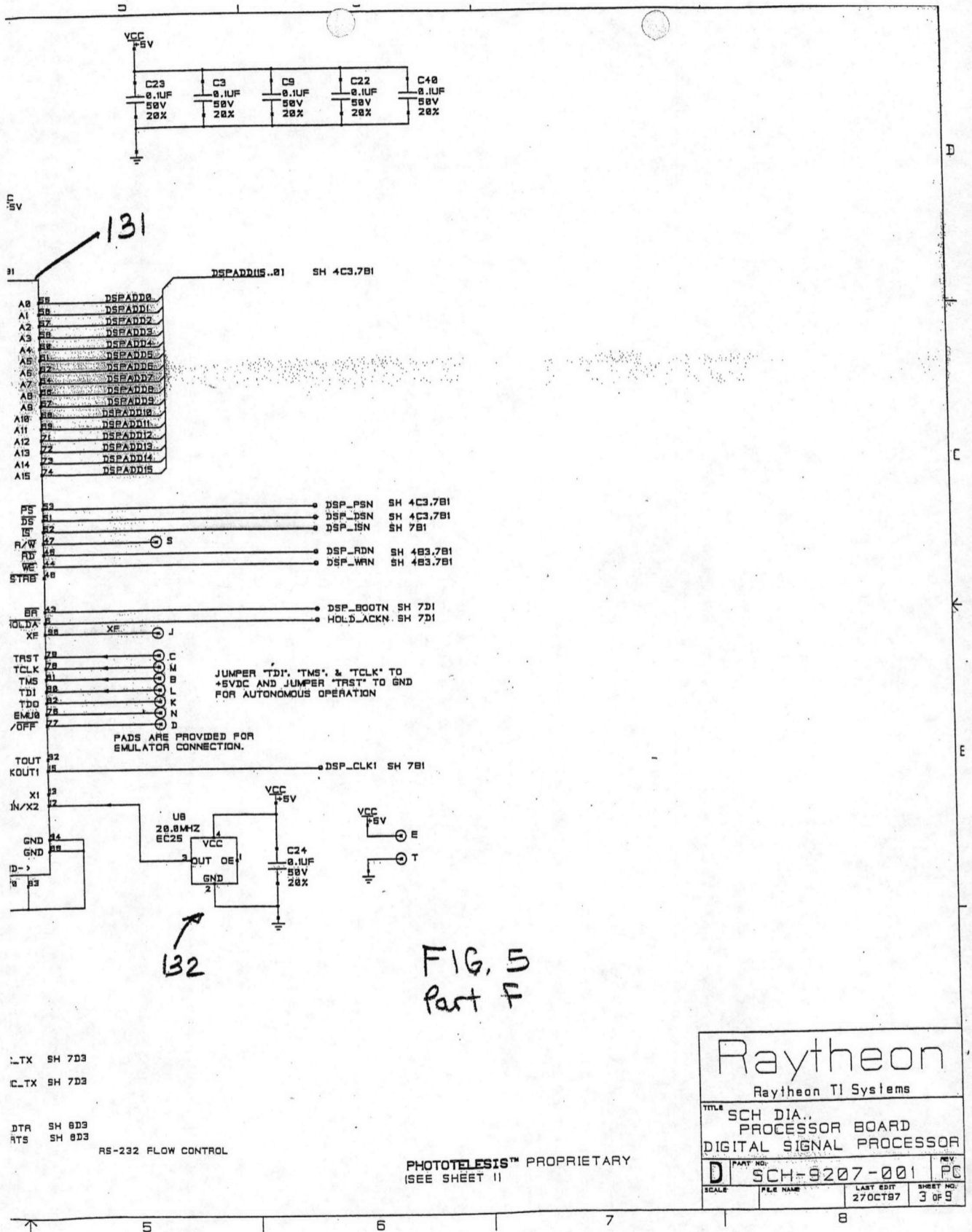
Fig. 5
Part E



PHOTOTELESIS™ PROPRIETARY
(SEE SHEET 1)

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TITLE SCH DIA.. PROCESSOR BOARD POWER DISTRIBUTION			
PART NO. D SCH-9207-001		REV. PC	
SCALE	FILE NAME	LAST EDIT 27OCT97	SHEET NO. 2 OF 9





131

132

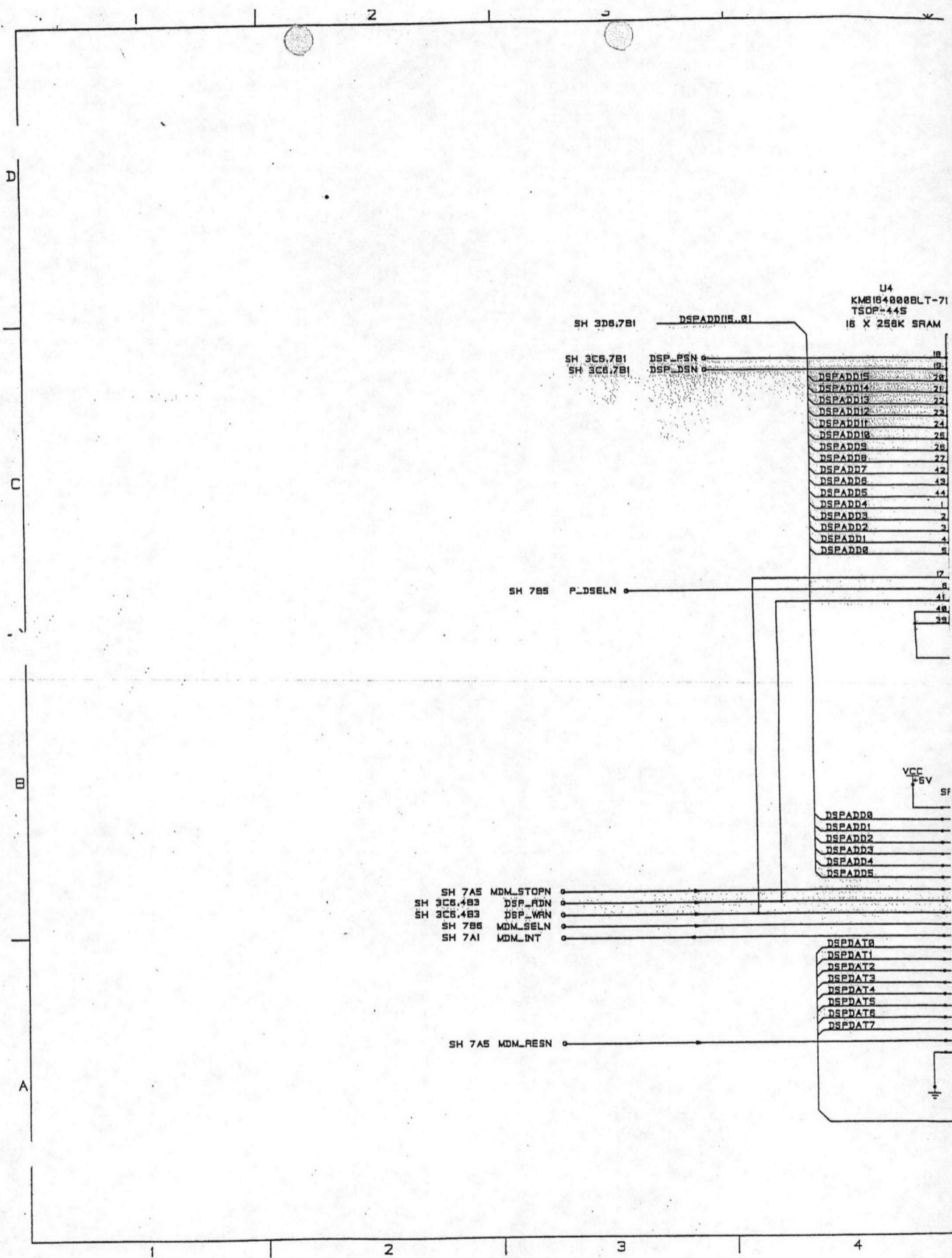
FIG. 5
Part F

Raytheon
Raytheon TI Systems

TITLE: SCH DIA.,
PROCESSOR BOARD
DIGITAL SIGNAL PROCESSOR

SCALE	PART NO: SCH-9207-001	LAST EDIT 27OCT87	REV 3 OF 9
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PHOTOTELETYPE™ PROPRIETARY
(SEE SHEET 11)



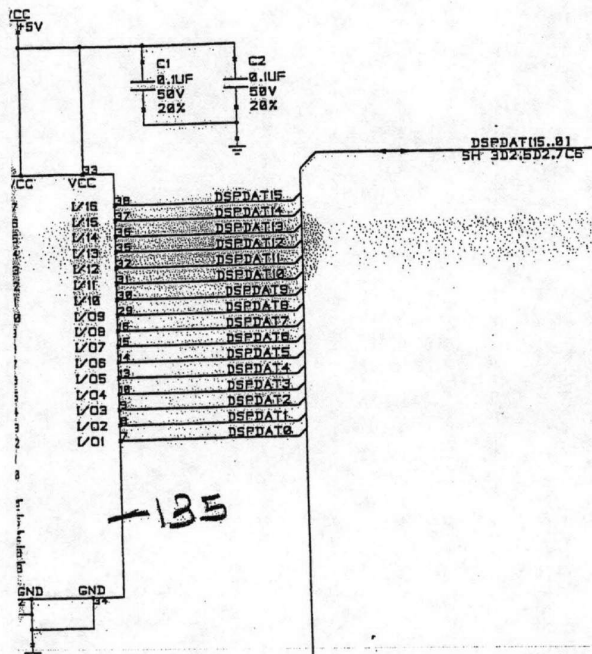
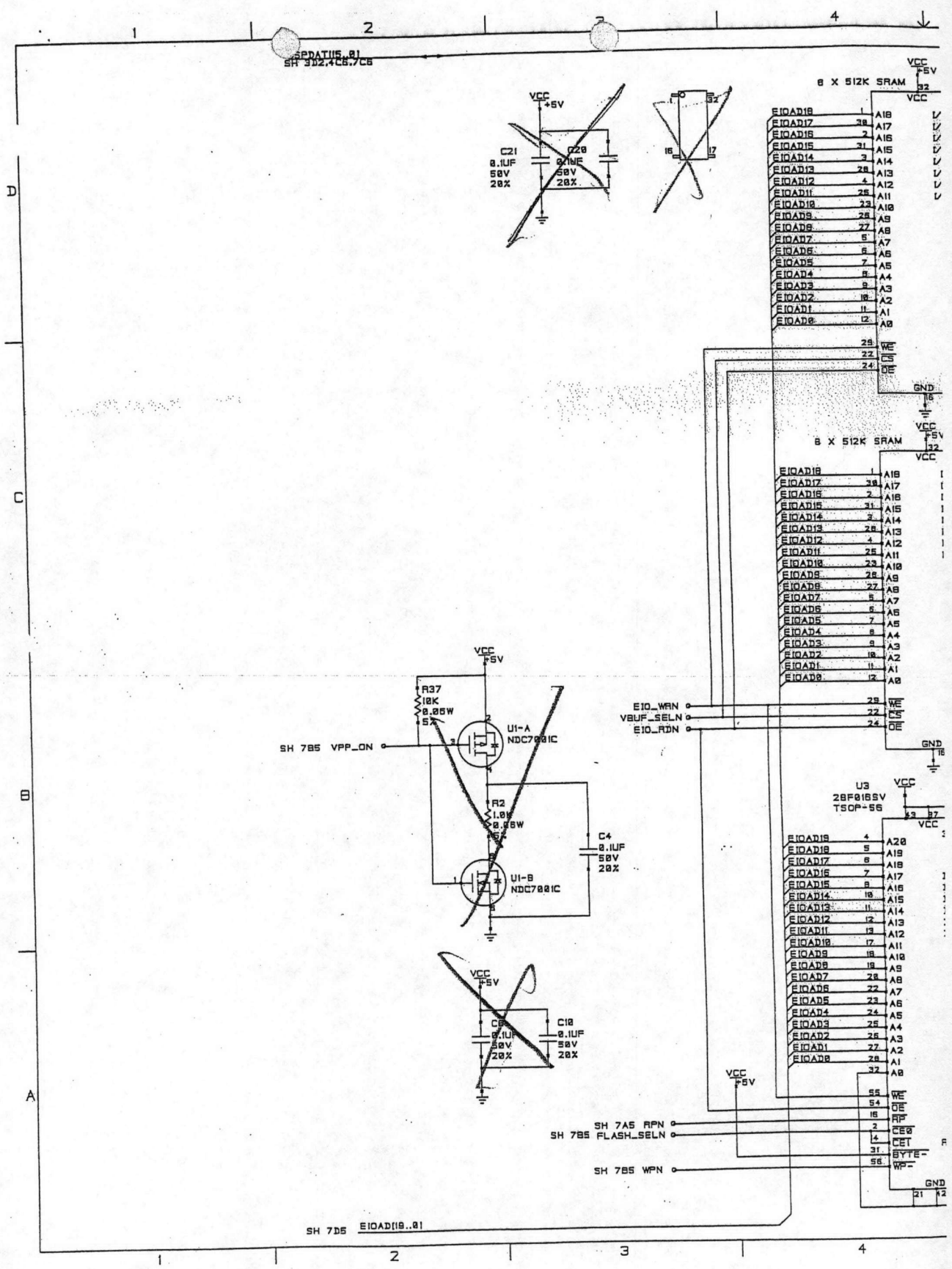
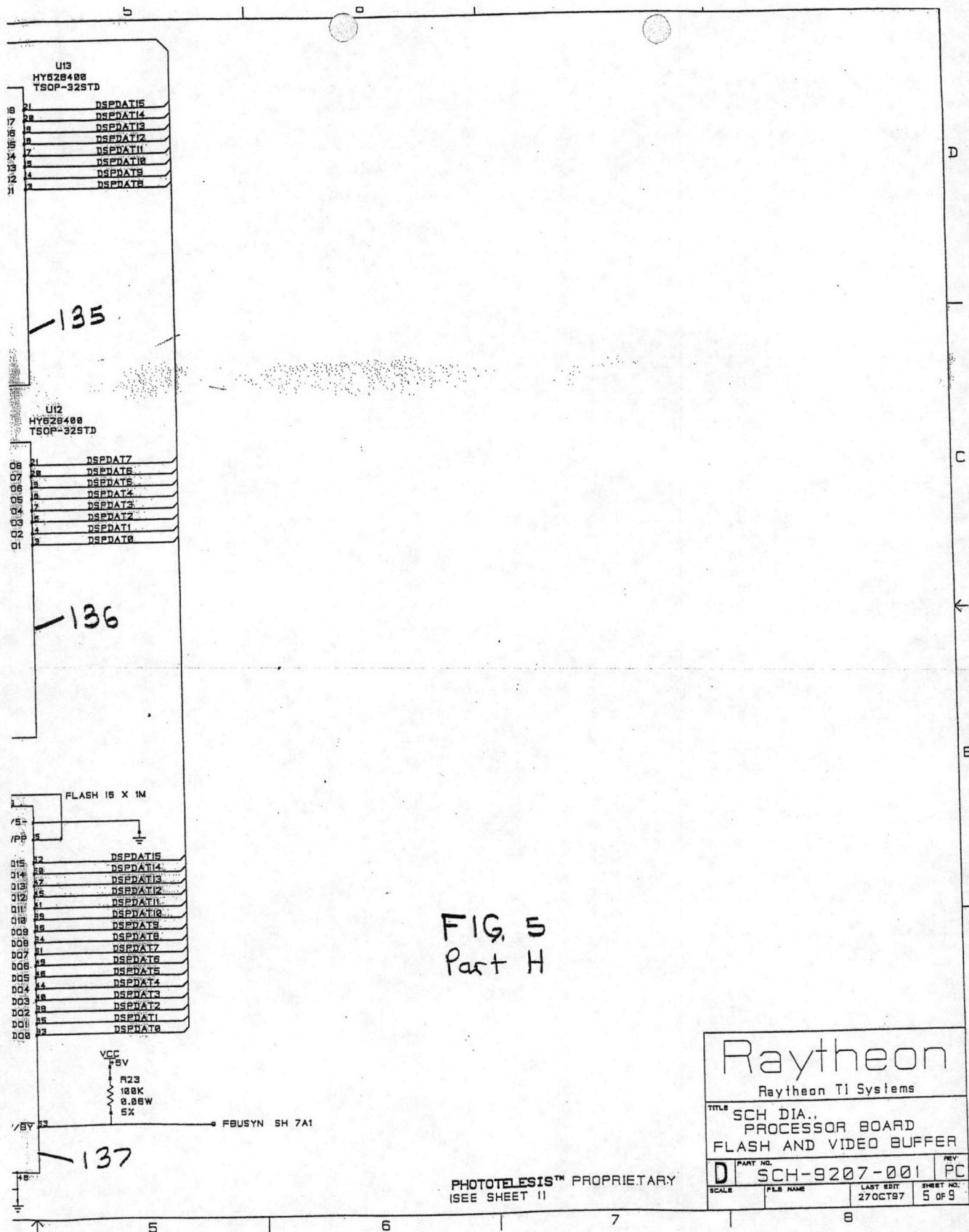


FIG. 5
Part G

PHOTOTELESIS™ PROPRIETARY
(SEE SHEET 11)

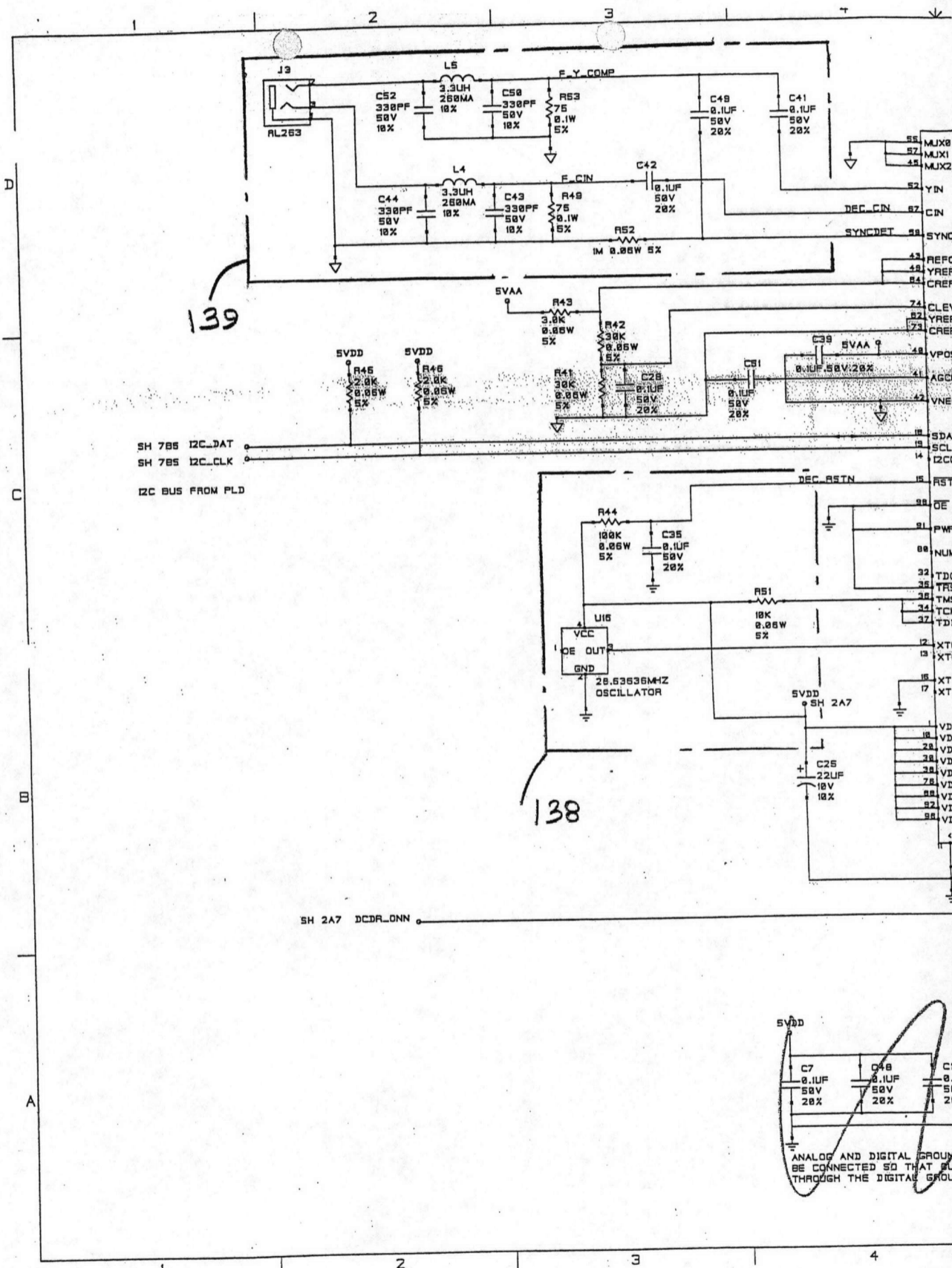
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D	PART NO. SCH-9207-001	LAST EDIT 27OCT87	REV PC SHEET NO. 4 OF 9
SCALE	FILE NAME		





Raytheon			
Raytheon TI Systems			
TITLE SCH DIA. PROCESSOR BOARD FLASH AND VIDEO BUFFER			
D	PART NO. SCH-9207-001	REV PC	
SCALE	FILE NAME	LAST EDIT 27 OCT 97	SHEET NO. 5 OF 9

PHOTOTELEESIS™ PROPRIETARY
(SEE SHEET 11)



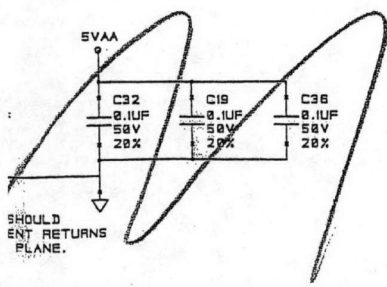
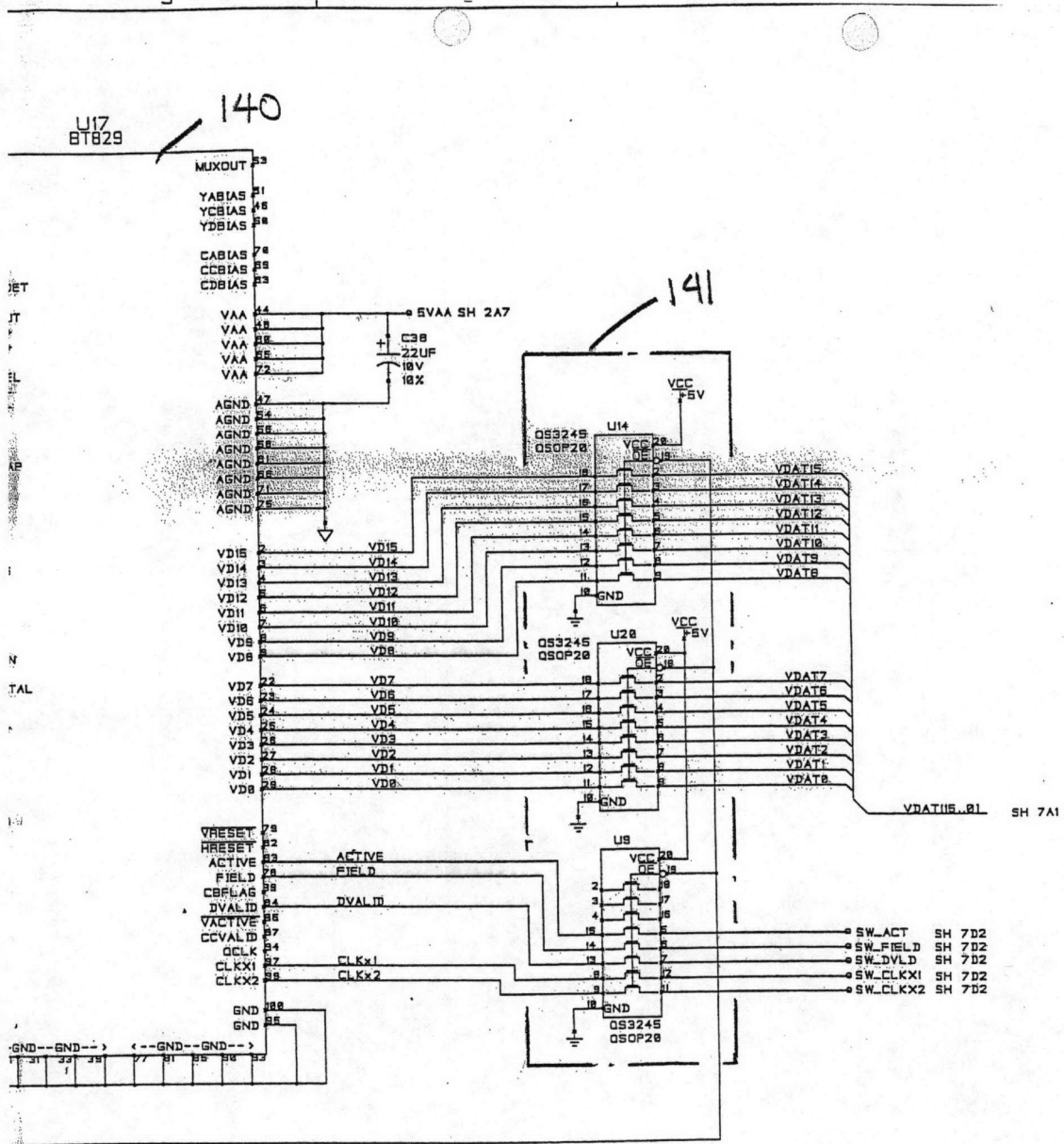
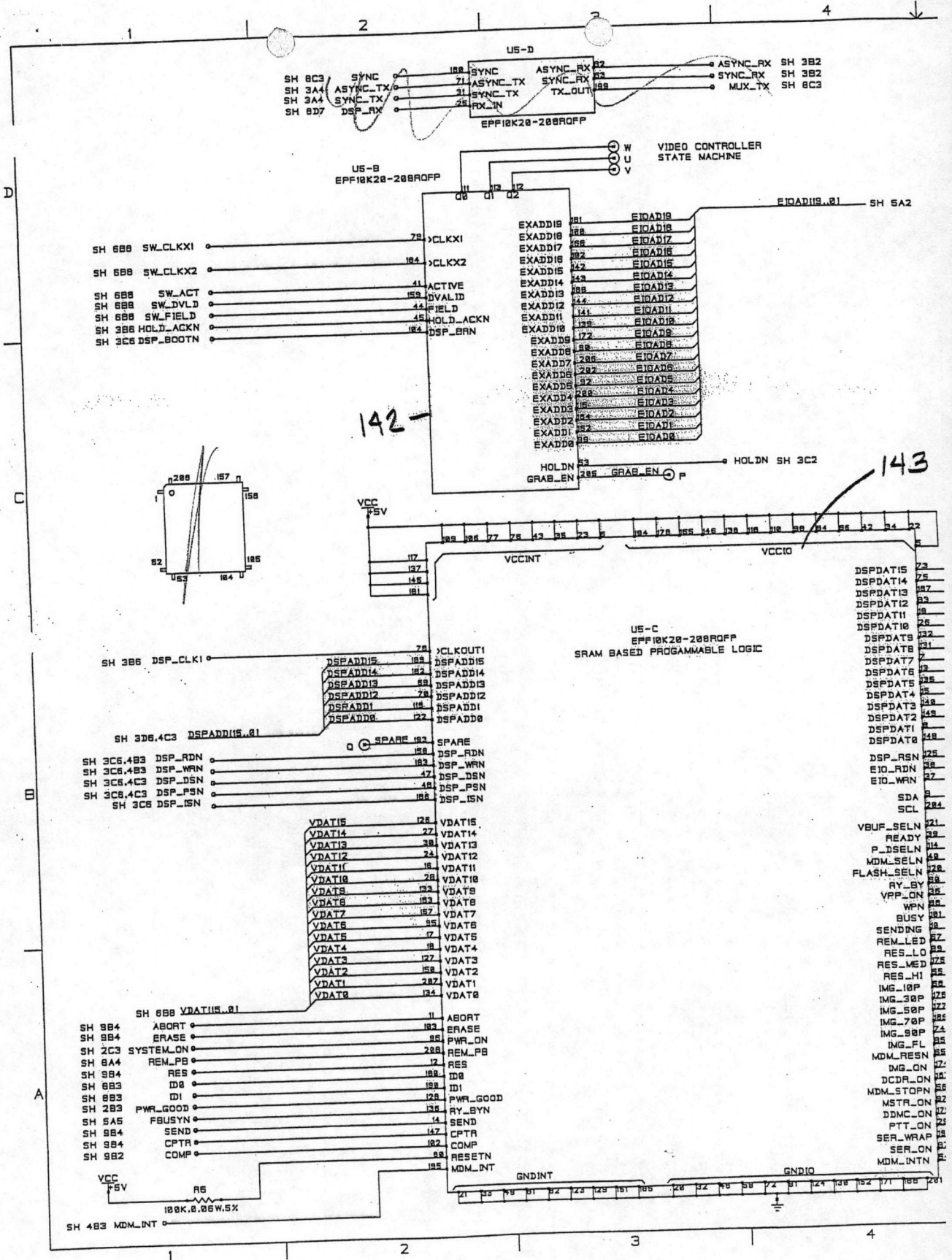


FIG. 5
Part I

PHOTOTELESIS™ PROPRIETARY
(SEE SHEET 1)

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Raytheon TI Systems			
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PART NO.	SCH-9207-001		REV. PC
SCALE	FILE NAME	LAST EDIT 27OCT97	SHEET NO. 6 OF 9



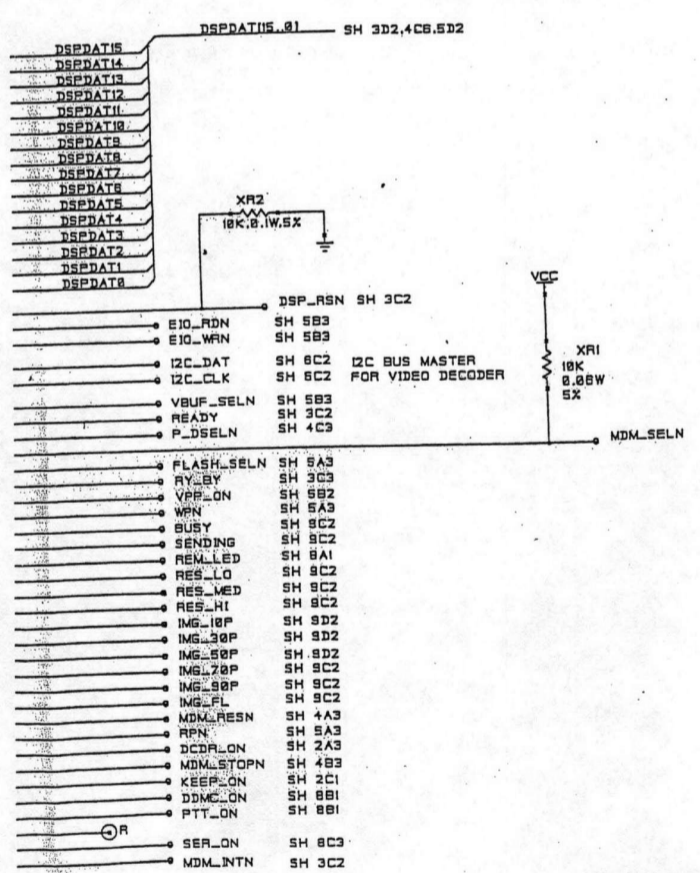
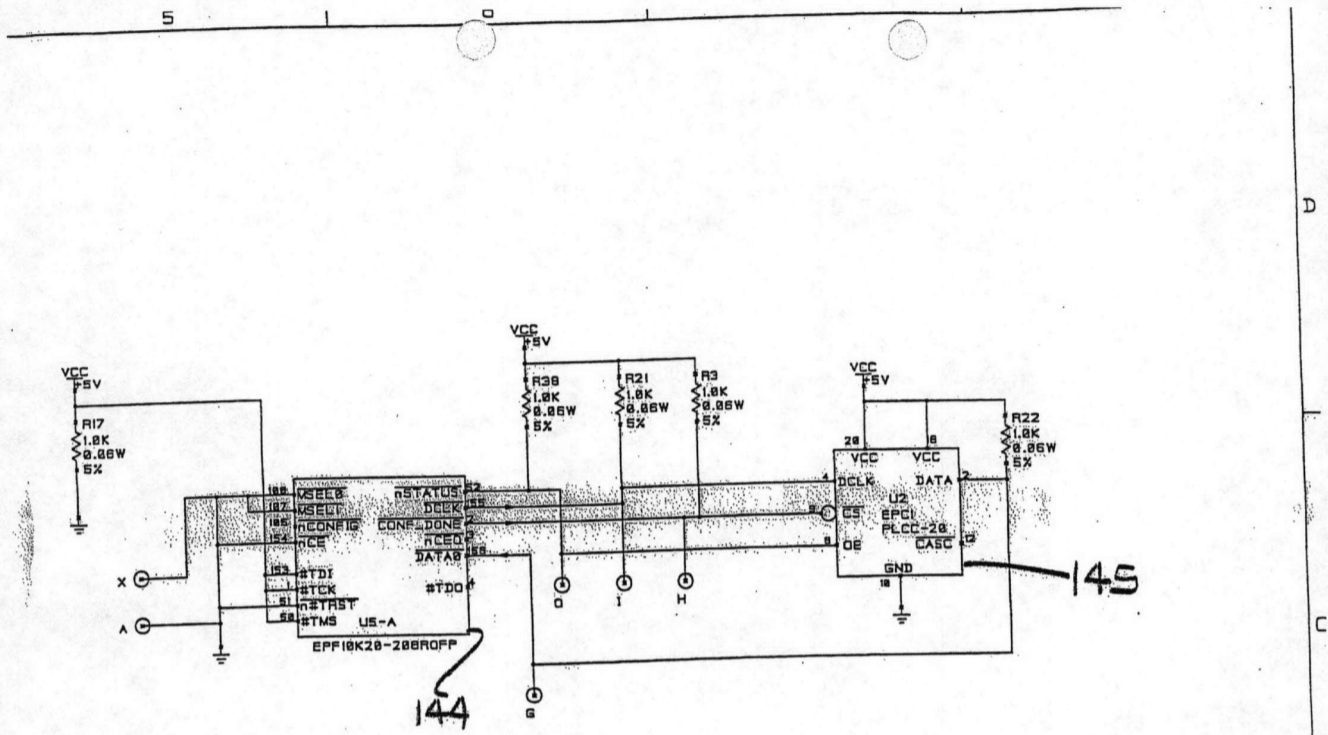
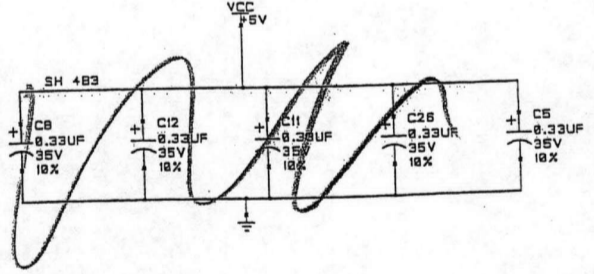


FIG. 5
Part B



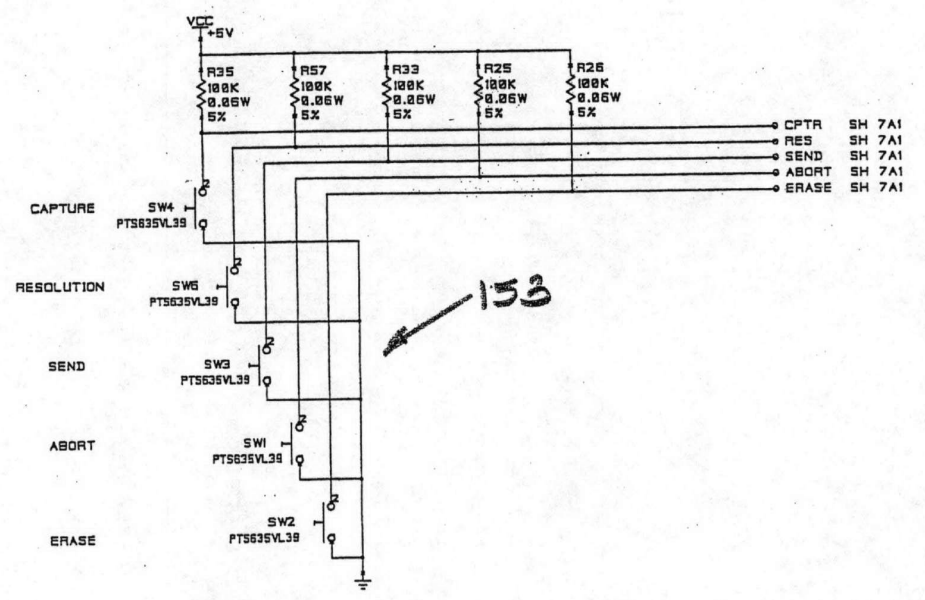
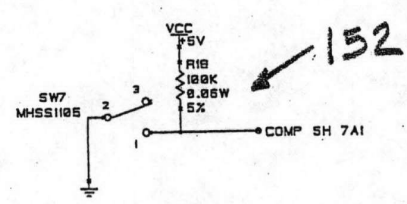
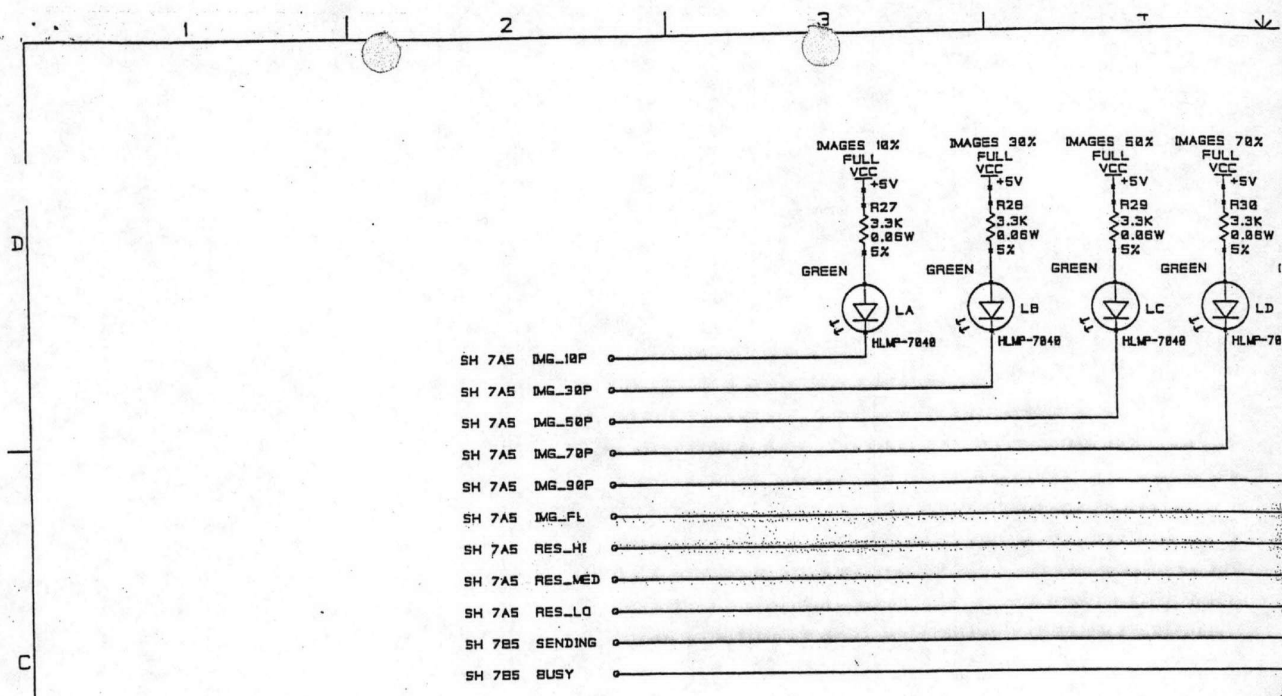
Raytheon
Raytheon TI Systems

TITLE: SCH DIA., PROCESSOR BOARD EXT. ADR. & I/O DECODER

D PART NO. SCH-9207-001 REV PC

SCALE: FILE NAME: LAST EDIT: 27 OCT 87 SHEET NO: 7 OF 9

PHOTOTELETYPE™ PROPRIETARY
(SEE SHEET 1)



15

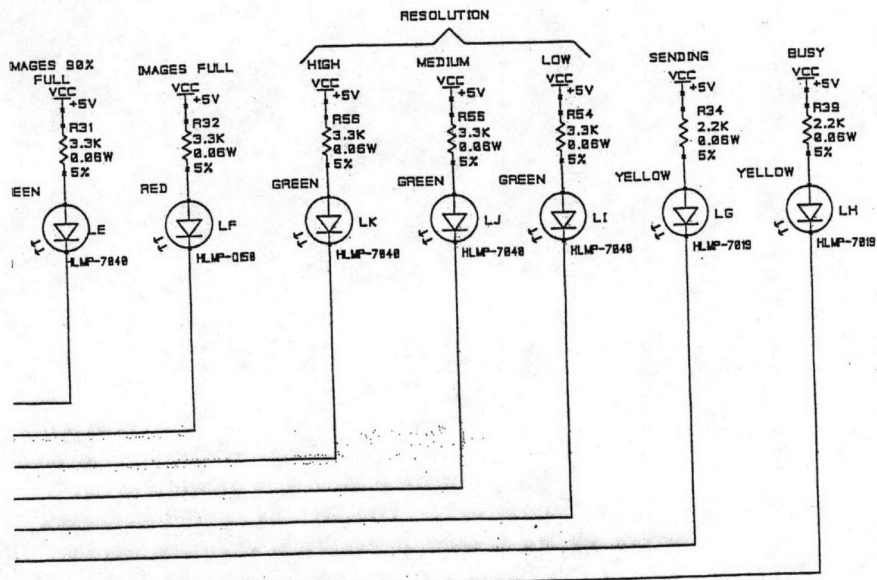
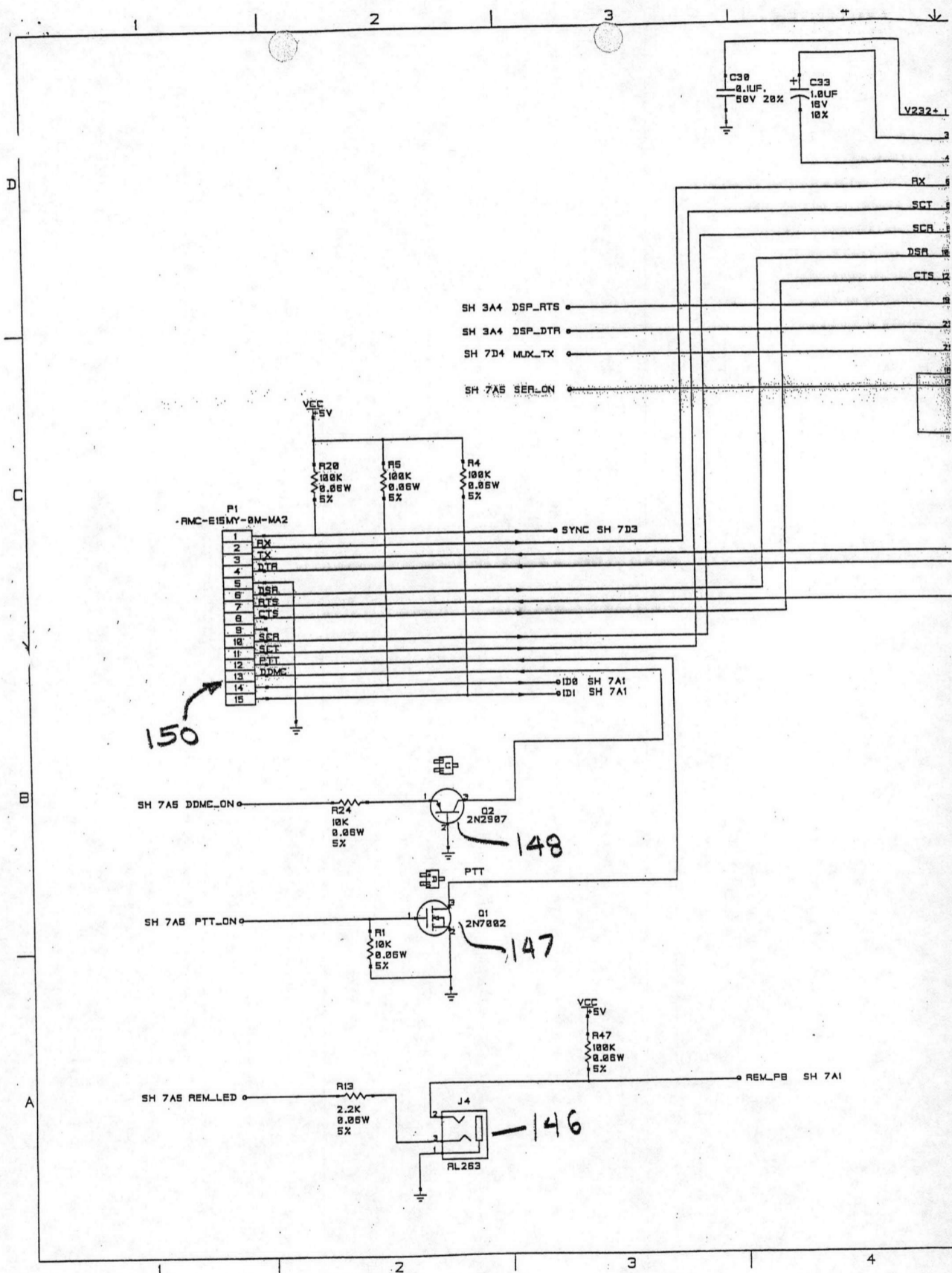


FIG. 5
Part L

PHOTOTELEESIS™ PROPRIETARY
(SEE SHEET 11)

Raytheon			
Raytheon TI Systems			
TITLE SCH DIA., PROCESSOR BOARD PUSH BUTTONS & LEADS			
D	PART NO. SCH-9207-001	REV PC	
SCALE	FILE NAME	LAST EDIT 27OCT97	SHEET NO. OF 9

↑ 5 | 6 | 7 | 8



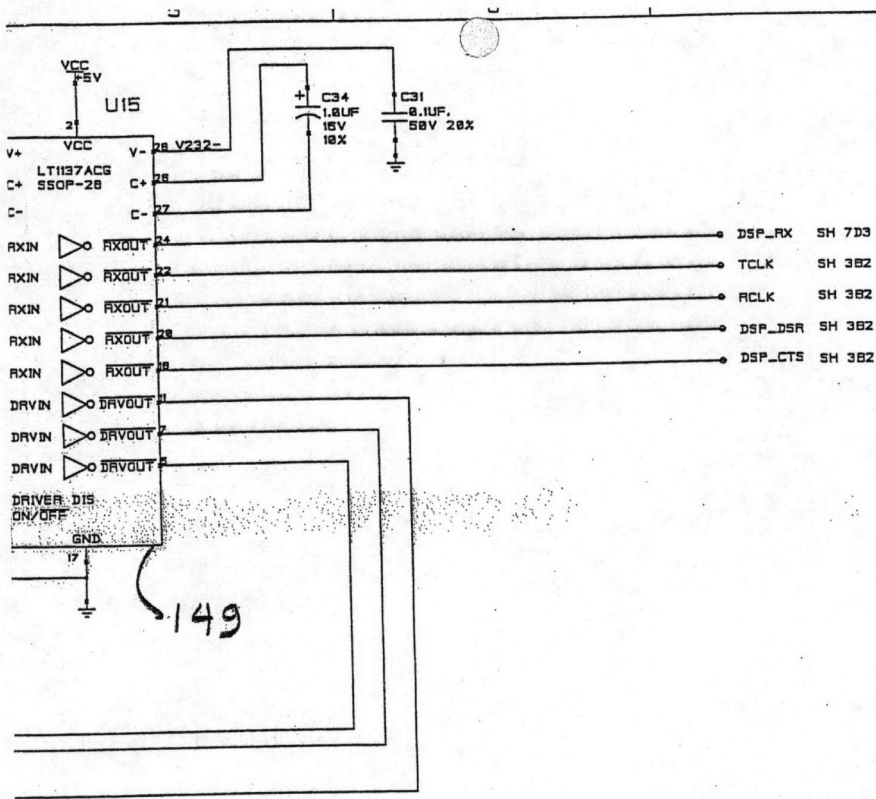


FIG. 5
Part K

Raytheon			
Raytheon TI Systems			
TITLE SCH DIA. PROCESSOR BOARD COMMUNICATIONS INTERFACE			
D	PART NO.	SCH-9207-001	REV. PC
SCALE	FILE NAME	LAST EDIT 27OCT87	SHEET NO. 6 OF 9

PHOTOTELEESIS™ PROPRIETARY
(SEE SHEET 1)

15





PHOTOTELESIS

MicroRIT™

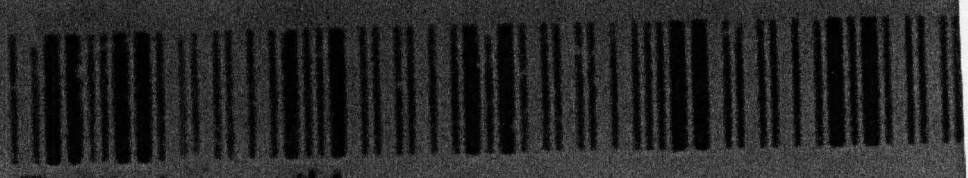
PhotoTelesis
Image Transmission™

Patent Pending

7800 IH-10 West, Suite 700
San Antonio Tx 78230-4753
Tel: 210.349.2020
Fax: 210.341.1020



MicroRIT



Prototype #1

MicroRIT™ Proposal

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SECTION 1

EXECUTIVE SUMMARY

MicroRIT™ Proposal

2 November 1995

EXECUTIVE SUMMARY

This unsolicited proposal describes a state-of-the-art image transmitter that is specifically designed for field agent applications with handheld and vehicle mounted digital/secure radios. The MicroRIT image transmitter will capture and transmit high quality monochrome or color images over typical radio circuits, such as the Government Saber Secure Radio on the B-Radio net or **commercial cellular phone circuits**. The MicroRIT is unique because it can transmit a high quality image in ten to twenty seconds from a unit that is small, low power, and *low cost*. This unique capability is currently unavailable and is crucial for field law enforcement applications.

This MicroRIT miniaturized image transmitter proposal is submitted by PhotoTelesis, a Business of Texas Instruments Incorporated. The PhotoTelesis group is a world leader in Tactical Image Transmission technology, and Texas Instruments (TI) is a world leader in Digital Signal Processing technology and Micro Electronics technology. The proven track records and technology bases of the PhotoTelesis/TI combined team places this technically challenging program well within reach.

1.0 The PhotoTelesis Organization Background:

PhotoTelesis has a 10 year history of specialization in Government tactical image transmission. PhotoTelesis is the leader in tactical transmission of monochrome or color imagery, captured from either television or digital cameras over Government secure radios, Government satellite circuits, and **commercial cellular** and satellite radios.

The company has installed more than 1000 systems within the Army, Navy, Air Force, Special Operations, Federal Law Enforcement, and Intelligence groups. These systems have been used in classified and unclassified operations. The PhotoTelesis name has become well known as the leader in the tactical image transmission field.

The PhotoTelesis comprehensive product line provides users with a full complement of hardware and software, to support operation from various platforms, including:

- ⇒ Man Portable Applications
- ⇒ Covert Operations
- ⇒ Aircraft Platforms
- ⇒ Ground Vehicle Platforms
- ⇒ Portable Base Stations
- ⇒ Fixed Base Stations

The tactical communications functions of the PhotoTelesis products include:

- ⇒ Distribution of images, text and data over all government secure voice bandwidth circuits.
- ⇒ Database Archiving of stored images and text data.
- ⇒ Traditional Data Processing activities in MS-DOS and Windows
- ⇒ Interoperability with Government NITFS 2.0 "National Imagery Transmission Systems"

Distinctive Competence

A unique blend of Independent Research and Development, combined with commercial off-the-shelf technology, has allowed PhotoTelesis to offer products with innovative designs and superior performance at competitive prices. The modular construction of products allows easy technology insertion of hardware and software enhancements lowering life cycle costs.

The success of PhotoTelesis can be attributed to a commitment to service and providing solutions to our customer problems. Our reputation has been earned by focusing our expertise in the following key areas:

- **Reliable/Dependable Transmission of Data.** Imagery and Data can be sent from a harsh tactical environment where air time for transmissions is limited. Users depend upon their equipment to transmit images and data reliably over wideband SATCOM or narrowband communication channels. To compensate for natural and man-made noise, PhotoTelesis' proprietary protocols incorporate error correction techniques and compression algorithms that provide both efficient and reliable transmissions. These message and image transmission protocols are specifically designed for noisy narrow-band radio communications, and are currently heavily used in operations involving Command, Control, Communications, and Intelligence (C4I) applications.
- **Ease of Operation for the User.** The operational simplicity and versatility of both hardware and software design allow non-technical user compatibility with a wide range of cryptologic devices, secure telephones, and radios. The systems are designed to be automatically configured by cable connections reducing hardware damage by operator error. The equipment is built with user friendly interfaces (GUI) or a menu driven screen.
- **Products for Various Platforms.** The company has focused on customer requirements to develop, with IR&D funds, products used on various platforms, i.e., vehicle, aircraft, and man-portable units. This has resulted in building a repertoire of off-the-shelf products for Aircraft, Special Operations, and Law Enforcement.
- **Rapid Product Development.** PhotoTelesis has reduced the time and cost of product development, from product definition through design, development, and pilot production. This is accomplished by significant technology re-use, in conjunction with strong specialized skill sets of the engineering team. The majority of the PhotoTelesis products have been sold as Non-

Developed-Items on Indefinite Delivery Order or Fixed Priced Contracts, thus reducing customer financial and technical risks.

1.1 Texas Instruments (TI) Incorporated Background:

Texas Instruments has diverse capability in micro-electronics, Government, commercial, and consumer products. TI is a high technology company with sales or manufacturing operations in more than 30 countries; a major supplier of integrated high performance EO based fire control systems, high performance processors, thermal sensors, missile systems, and radar components to the U.S. Department of Defense (DoD). The MicroRIT program will utilize several key TI capabilities:

TI is a world leader in Digital Signal Processing (DSP) technology. The DSP is key to the MicroRIT's small size, low power, and low cost. Commercial technology and the capability for high volume production also provide opportunity for significant unit cost reductions, allowing for *extensive* deployment of the technology at a *very affordable* cost.

1.2 The Combined PhotoTelesis/Texas Instruments Team:

On August 18, 1995, PhotoTelesis Corporation was acquired by Texas Instruments Incorporated. PhotoTelesis' expertise with tactical image transmission combined with the financial strength of Texas Instruments offer our customers innovative and cost effective tactical imaging product solutions.

PhotoTelesis and Texas Instruments have a two year continuing history of cooperation and teaming on other Government imagery programs, including the US Army Hunter Sensor Suite program and the Lightweight Video Reconnaissance System (LVRS) program.

PhotoTelesis/Texas Instruments is excited about the opportunity to provide new state-of-the-art capability through more closely integrated efforts on the part of all team members.

1.3 The Program Background:

Tactical Imagery has proven to be the most efficient and quickest means to distribute critical information to the decision maker. Imagery in the field can provide agents with near-real time secure surveillance that improves their situational awareness, suspect identification capability, and thus, reduces allocation of limited personnel resources. Unfortunately, both military and commercial products used for transmission of Tactical Imagery are currently unsuitable for law enforcement because the military products are too large and too expensive, and the commercial products are too large and are not capable of operation over Government tactical radio circuits.

~~Current-generation-Remote-Image-Transceivers (RIT's) manufactured by PhotoTelesis are in operation over the Motorola digital radio systems owned by the Government for the purpose of transmitting secure (encrypted) imagery from mobile platforms to fixed sites.~~

Still Imagery is being transmitted using the SABER II, with the Secure INDICTOR option, at 12Kbps. A primary requirement of maintaining minimum data transmission times and a quick restoration of the radio-to-voice communications have been met in product demonstrations of this capability. At a recent test, using the PhotoTelesis man-pack TAC-RIT, monochrome images at a resolution 592 by 440, 8-bit pixels were transmitted in 8 seconds using Wavelet compression, and 21 seconds using industry standard JPEG compression.

This proposal describes an engineering program that miniaturizes the PhotoTelesis current capability into a very small, covert, low power Remote Image Transmitter (MicroRIT) *specifically* designed for agent use. The primary goals for field agent use are:

- ⇒ Very Small Size (Cellular phone size)
- ⇒ Low Power (2-4 watts)
- ⇒ Simple User Interface
- ⇒ Fast Transmission Time
- ⇒ Monochrome or Color Use



SECTION 2

TECHNICAL APPROACH

TECHNICAL APPROACH

Until the advent of small, low power digital signal processor (DSP) semiconductors, the MicroRIT was unfeasible. Now, however, such DSP's allow the design of very small, but highly sophisticated data acquisition and processing devices. In fact, the DSP component is the heart of the MicroRIT, controlling all aspects of its operation from video acquisition, to image compression, to tactical communications protocol, to user interface.

A digital signal processor, or DSP, is a special type of microprocessor that has been highly optimized for numerical computations (namely digital signal processing) which involve long sequences of multiplication and addition operations. Digital filters, spectrum analyzers, and data compression algorithms fall squarely in this category. While the DSP is not often used as a generalized host processor (such as an 80486, Pentium, or 68000), it can certainly be used as a host CPU. Because of the particular hardware optimizations that were implemented for digital signal processing, a DSP tends to have smaller address spaces (under 1 megabyte) and less support for string-oriented operations (for handling character strings). However, several DSP variants can quite easily be used as an embedded controller and signal processor - obviating the need for two separate processors. This often simplifies the hardware design and interprocessor communications mechanisms.

The MicroRIT was conceptualized specifically with a DSP as the system controller in mind to reduce the size and power requirements of the unit. In addition, to controlling the overall system function, the DSP is responsible for controlling the digitization of video, the compression of this captured video, and the communications protocol and link-layer interface. These functions would occur serially. That is, it would not be possible to be capturing video while sending a compressed image at the same time. This one-at-a-time restriction is due to two problems. The first is the limited amount of multi-tasking support in the DSP architecture. Few DSP operating systems are available that support preemptive multi-tasking. The second is the limited address space of the DSP. Many DSP's have a fairly limited address space - often under 64K words! This will require that both the codespace and the dataspace be page-swapped. Page-swapping essentially means that only one software function can be active at a time - which implies the serial nature of the major functions.

2.0 Capturing Video

A conventional frame grabber contains a great deal of circuitry necessary for demodulating the video signal, identifying and triggering off the vertical sync signal, stripping the sync signals from the image data, digitizing the demodulated data, and storing it in a dual-ported RAM. This is required because the host processor has neither access to the raw video signal, nor the processing power to execute these functions in a real-time fashion. The DSP used in the MicroRIT approach, will however, be controlling the video digitization while itself does the vertical sync identification. External analog-to-digital converters (ADC) will still be used to digitize the video signal, rather than using any onboard ADC capabilities of the DSP chip, because most DSP ADC's are not fast enough to digitize at video rates (at least those DSP's that can meet our low-power requirements). Another subtle point about this approach is that video need only be digitized on user demand. This implies that the video ADC circuitry only has to be energized for 1-2 frame times to acquire the image. Video ADC's can consume several watts if left free running. The non-requirement for video output allows this digitization-on-demand

approach that should significantly help reduce size, weight, and heat dissipation, as well as extend battery life.

2.1 Video Demodulation

A color video signal, in particular a composite color video signal, carries the luminance and color (chrominance) information in different frequency bands. Usually, an analog filter is used to separate these signals into two analog channels that can then be digitized separately. In order to save power and space in the MicroRIT, we will perform this demodulation in software running on the DSP after a frame's worth of video data has been captured. Even an S-Video signal carries two color channels on the chrominance signal (which is physically separated from the luminance channel). The same type of *software* demodulation will be done on the S-Video chrominance channel for S-Video. The video demodulation is performed after a frame acquisition, not during. This is significant because it restricts the MicroRIT to performing system functions in a serial fashion. That is, one high level function after another is performed by the central processor (the DSP). There is no multitasking of system functionality in the MicroRIT. This is due in part to the lack of multitasking DSP operating systems as well as the somewhat limited addressing capability of today's DSP's (under 1 megabyte of codespace). Thus, after the user specifies that an image is to be acquired, the video digitization circuitry powers up, acquires a frame of video data, and passes control to the video demodulation software which then separates luminance from the color signal by a digital filter.

2.2 Image Compression

After the image has been digitized, separated, and demodulated by the system DSP, it will be compressed with either the JPEG or PhotoTelesis wavelet image compressor. This choice is user selectable (via the set of buttons and alphanumeric display). The wavelet compressor is well suited to the S-Video type of input since it was designed to work on L/Cr/Cb video data. Like all other PhotoTelesis implementations of the wavelet codec, the user will be able to select several choice of compression ratio and/or "quality". PhotoTelesis is constantly improving its image compression technology. These improvements affect compression/decompression time and image quality. They also affect compression features such as, quality specification (Q-Factor), multiresolution compression, and industry standardization. The contractor will strive to incorporate image compression improvements into the MicroRIT product, subject to the program schedule.

2.3 Image Storage

There will be enough battery-backed SRAM within the MicroRIT to hold 40 wavelet compressed color images. These can be held on-board until downloaded to a host computer via an RS-232 port. Originally, it was conceived to use a PCMCIA SRAM card for this image storage. However, the physical size of the mechanical PCMCIA slot and the extra interface circuitry was not justified. If the images are stored within the MicroRIT, the user will have to bring back something, be it the MicroRIT or a PCMCIA card, in order to offload the images to some sort of Base-Station unit. Thus, the SRAM memory was chosen over PCMCIA.

2.4 Communications

The MicroRIT will be able to connect to all standard COMSEC equipment including STU-III's, SINCGAR's, SABER and RACAL (MHSR) radios, KY-57, KY-58, and Sunburst. The DSP processor will run the PTAC and PTAC-2 (required for file pull capability) protocols in order to

be backward compatible with existing PhotoTelesis equipment. The DSP will also directly control all COMSEC control lines (PTT, BDMC, etc.) as well. The DSP and some glue logic will essentially replace the original EIS card of the PhotoTelesis ACT product line.

Note that this version of the MicroRIT will not include the NITFS TACO-2 protocol. There is an assumption that the MicroRIT will be communicating with other PhotoTelesis equipment (i.e., Base Stations) which do have the TACO-2 capability.

Note that the automatic voice/data cutover modes for the KY-57 and KY-58 will not be implemented. Manual data switching will be used.

2.5 User Interface

The user will be able to interface to the MicroRIT two ways: 1) the set of onboard pushbuttons, 2) an RS-232 cable linking the MicroRIT to a host computer. There will be five (5) buttons on the MicroRIT to control normal operation of the system. There will also be an alphanumeric display for status and menu information. The functions on the MicroRIT will include power (on/off), capture, send, and menu. The menu will allow the specification of compression type, compression ratio, protocol, call sign information, send/hold modes, etc.

The RS-232 interface to the MicroRIT will be used for 3 functions: 1) Update system software (stored in FlashRAM on the MicroRIT), 2) download configuration information to the MicroRIT (call sign lists, compression defaults, etc.), and 3) download compressed/stored images from the MicroRIT to a workstation (such as an MIT-301). This will be a very simple RS-232 interface with a subminiature connector on the MicroRIT to the standard 9-pin COM connector on a PC.

2.6 Hardware

2.6.1 Packaging. The MicroRIT is designed to utilize standard snap on cellular telephone batteries. Several battery sizes and capacities are available from telephone retail outlets. The MicroRIT's overall size approximates that of a hand-held cellular flip-phone. High capacity battery life is estimated at 1 hour of full operation, with standby time approaching 30 hours.

The initial design and packaging will be implemented with an aluminum machined case. The finish will be black anodized for cosmetic finish. High volume applications could be done with a plastic injected molded case, but these costs are not included in the funding proposals submitted. A conceptual drawing is shown in Figure 1. The display and interface panel will allow system status and operational menus to be displayed to the operator. There is a recessed subminiature-D connector on the bottom edge of the unit that provides all input/output connections. If this unit is used in embedded system applications, external power can also be provided through this same connector. The connector is recessed to prevent damage to the connector by accidental dropping or striking other objects. The connector is installed on the bottom edge to provide best comfort to the operator when the cable is installed.

This MicroRIT package design will also include the ability to embed this device in higher capability equipment. Examples include radios, portable video equipment, or other equipment including cameras and radio transmission capabilities. This concept is similar to equipment with font cartridges, game cartridges, etc. The operator interface and display panel will not be included on these embedded applications. Power will be supplied through the external I/O connector.

2.6.2 Hardware Implementation. The MicroRIT architecture is based on the Texas Instruments TMS320 series of Digital Signal Processors. This DSP is the core of the design, with additional components providing the input/output interfaces to the operator, external power source, radios/Cryptos, and external computer links. There is one D-subminiature connector that provides these I/O functions. There are 5 control buttons, along with an alpha-numeric LED display for operator control and feedback status. The Overall block diagram is shown in Figure 2.

2.6.3 Memory. The memory implemented in the MicroRIT consists of low-power Static Rams (S-Rams). These memories are page partitioned to provide both program storage, raw video data workspace, as well as compressed video image storage. The design goal is to provide the capability to store a minimum of 40 images of 32K each in compressed image size. The architecture provides one memory page per image when storing compressed images.

2.6.4 I/O Ports. There are 2 input/output Serial ports incorporated into the design. One is designated for communication over radios, Crypto's, and STU type telephone devices. The other is intended for interfacing to other standard RS-232 computer devices such as Global Positioning Systems, some camera devices, and personal computer links for downloading image data or downloading operating program software. If the system needs to be reprogrammed for different mission requirements, the planned mechanism is to download from any serial computer device, the operating parameters and program software. If the user elects to save images, rather than send them immediately, these saved images could also be downloaded from the internal S-RAM memory via this serial port.

2.6.5 Power Sources. The MicroRIT is powered from either an attached cellular phone compatible battery, or via external power input through the I/O connector. For extended operating times, the external power mode is used. The input DC voltage range is 5.5-8.0 volt.

SECTION 3

COST

COST

The project represents a significant development effort with a medium level of risk. The contractor is keenly aware of the budget constraints and has taken steps to reduce the government's cost. The proposed cost has been reduced by the contractor's program investment of \$576K and utilization of the contractor's Image Compression and Communication Software, which was previously developed with IR&D funds.

The development effort is allocated into hardware engineering and software engineering as follows:

Hardware	\$661,093.80
Software	<u>\$984,492.21</u>
Total Development Effort	\$1,645,586.01
Less: Contractor's Investment	<u>(\$645,586.01)</u>
Cost to government	\$1,000,000.00

Upon completion of the project the government will receive 2 prototypes. The production cost per unit is targeted to be \$3,000.00-\$4,000.00 in lot sizes of 100. Cost reductions are possible by tooling the cage for plastic injection molding based upon higher volumes.

3.0 Schedule

The contractor anticipates the project will require 12 months from inception to prototype delivery. After prototype delivery, unit production could begin immediately. Attached are program schedules for Hardware and Software.

3.1 GFE

The contractor will require two SABRE II radios for testing during the program.

3.2 Personnel

The contractor will assign two Engineering managers and one program manager to this project. Their resumes are attached:

SOFTWARE

Dr. Bruce Mather.....Manager of Software Engineering

ELECTRONICS HARDWARE

Roger Vest.....Manager of Hardware Engineering

PROGRAM MANAGEMENT

Bill Kidd.....Program Manager

3.3 Attachments:

1. Micro-RIT Technical Specifications
2. Block Diagram
3. Drawing
4. Program Schedule
5. Detail Costs

SECTION 4

PRODUCT SPECIFICATIONS

MicoRIT Functional & Physical Specifications

Video Input:	Color/Monochrome Composite/S-Video 640 x 480 x 16-bit color (8-bit grayscale) 768 x 512
Image Storage:	Onboard flash (or battery-backed SRAM) for 40 + compressed color images (@32K)
Video Output:	None
Audio:	Digitized voice annotation will be provided
Comms:	PTAC (KY-57, Sunburst/STU-III, Sincgars, Saber)
RS-232 Interface:	External GPS receiver, S/W update, offload images, system configuration (call sign download, etc.)
User Controls:	Five (5) buttons - (1) On/Off and (4) controls: On/Off switch, Call Sign Select, Grab Image, Send Image, Settings (scrolls menus)
Display:	5x7 dot alpha-numeric low power green LED's (like cellular phones) One (1) flashing "battery low" LED
* User Controls & Display are optional for embedded applications (i.e., RIT can be built without them)	
Power:	2-4 watts @ full operation (idle mode when not doing imaging portion)
Battery:	Internal battery and/or external power 30 hours idle, 1 hour operational Disposables or Rechargeable (like cellular phone)
Weight:	1 pound (plastic) 1.5 pounds (metal)
Size:	1" x 4" x 3" (Hand-Held Cellular Size)
Temperature:	-20° to 50° C

System does only one function at a time:

Grab image	one frame at a time
Color demodulation	
Image Compression	< 5 seconds (to grab, demodulate, and compress)
Store image (40+)	< 1 second per image
Send Image	12Kbit line - 15 seconds goal for image xmit; up to 64Kbit comm link

Modem functions - built in FEC

Remote Control (configure) capability:

- New call signs
- Set compression ratio
- Snap picture
- Retrieve image

Texas Instruments Competition Sensitive
2-Nov-95

SECTION 5

DRAWING AND BLOCK DIAGRAM

Figure 1 - Micro™ Drawing

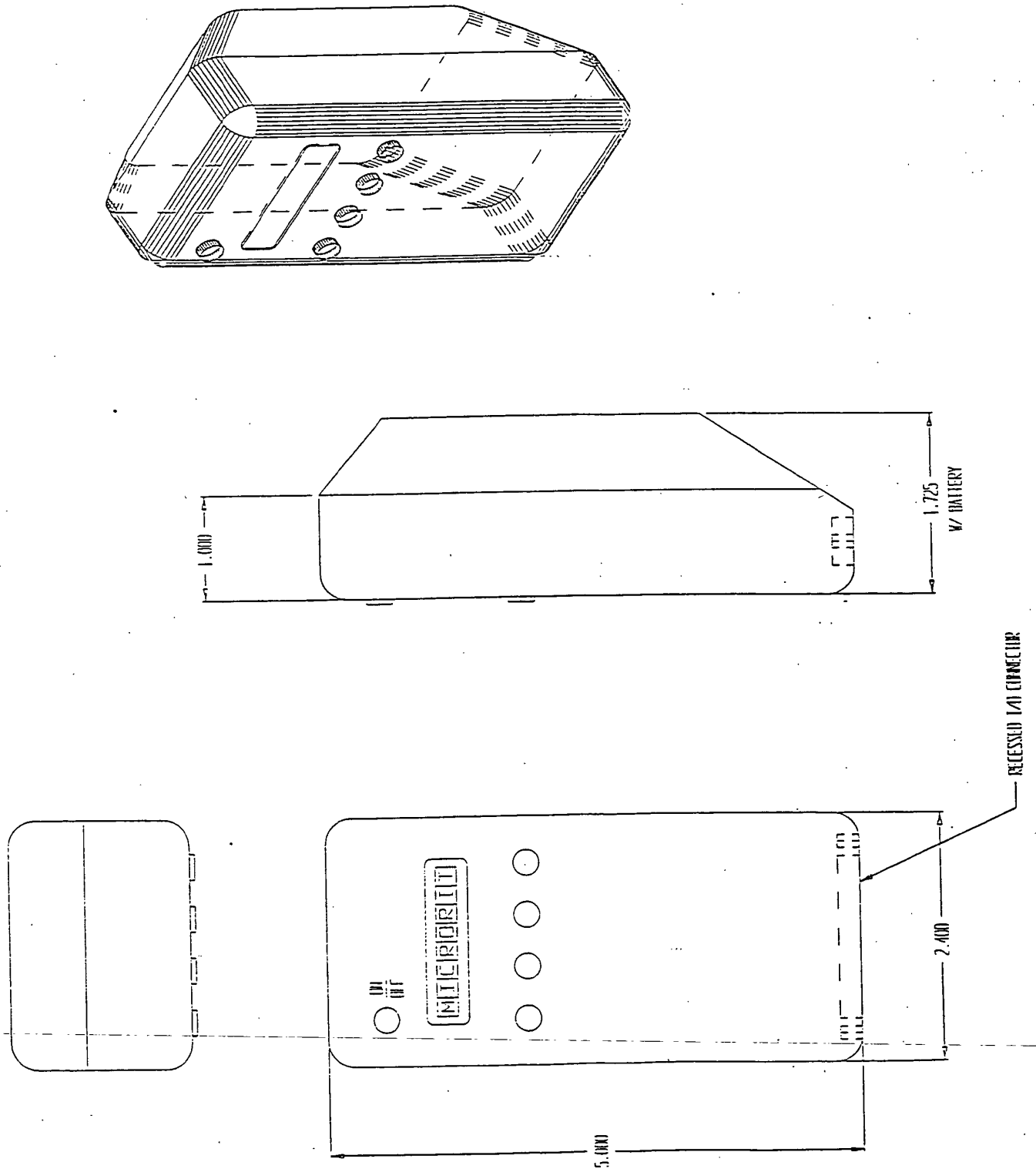
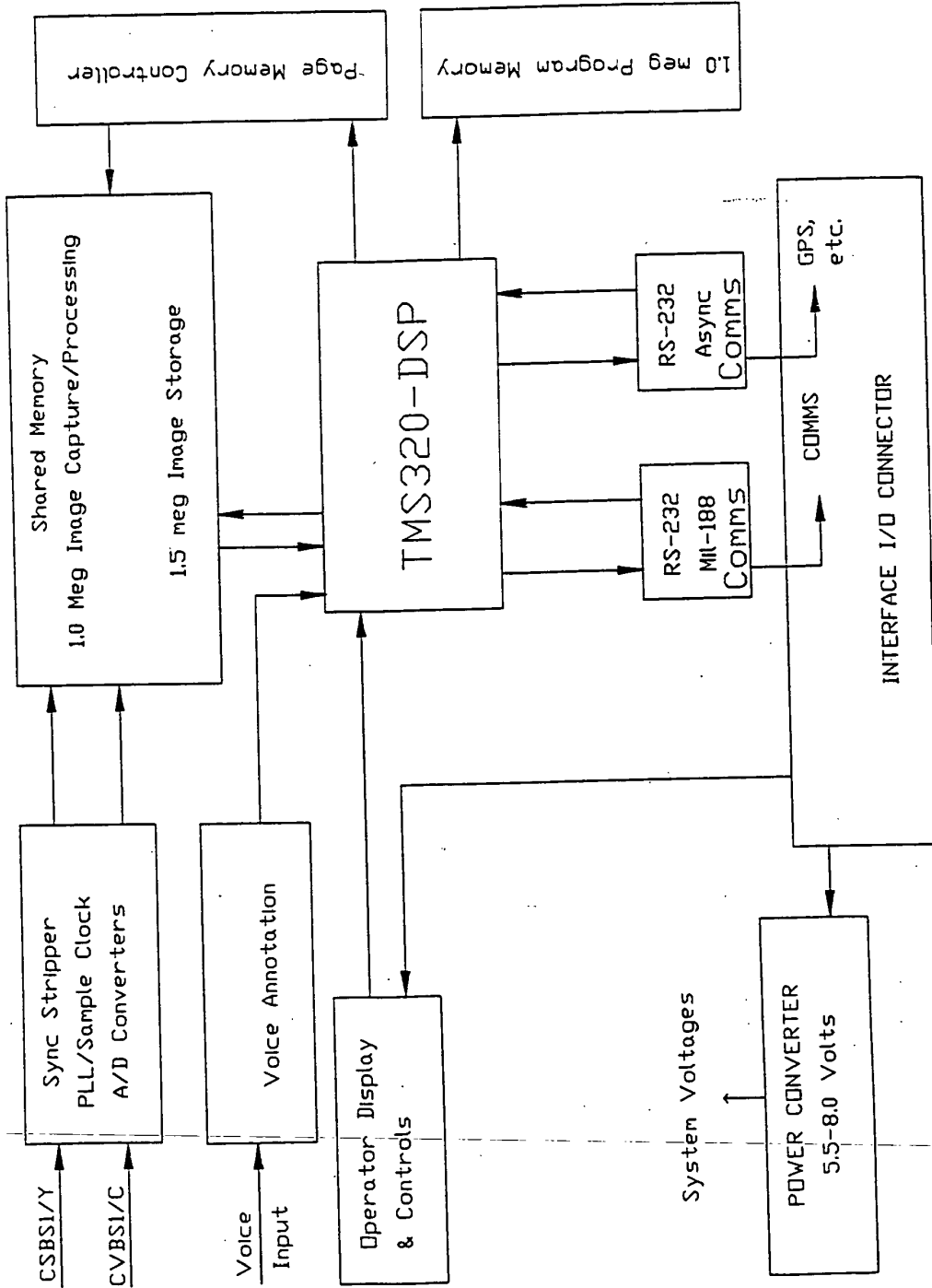


Figure 2 - MicroRIT™ Block Diagram



MICRO-RIT™ BLOCK DIAGRAM

SECTION 6

SCHEDULE

ID	Task	29
1	Pro	
2	Writ	
3	Eva	
4	Eva	
5	Eva	
6	DSP	
7	O/S	
8	Ord	
9	Writ	
10	Syst	
11		
12		
13		
14		
15		
16		
17		
18	Vide	
19		
20		
21		
22		
23		
24		
25	Com	
26	A	
27	S	
28	P	
29	P	
30	Audio	
31	A	
32	A	
33	A	
34	A	
35	User I	
36	L	
37	P	
38	M	
39	Remo	
40	R	
41	D	
42	Hardw	
43	System	
44	User M	
45	System	
46	Write A	
47	Custom	
48	Monty	
61	Custom	
68	Delivery	
Project: micorrit		
Date: Thu 11/2/9		

MicroRit Hardware Development

ID	Task Name	Duration	Start	1Q96			2Q96			3Q96			4Q96			1Q97			
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Package Design	16w	Tue 1/2/96																
2	Control Panel & I/O Interface	4w	Fri 3/1/96																
3	DSP Evaluation/Selection	1w	Fri 12/1/95																
4	Block Diagram	3w	Fri 12/8/95																
5	Engineering Specs	3w	Mon 12/25/95																
6	Component Selection	3w	Mon 1/15/96																
7	Schematic Design/Capture	6.5w	Mon 2/5/96																
8	Power Heat Analysis	3w	Mon 2/26/96																
9	Interconnect & Cabling Design	4w	Mon 2/5/96																
10	PWB Artwork Layouts (3 ea)	12w	Wed 3/20/96																
11	Documentation	20w	Mon 3/18/96																
12	Prototype Build (FAB)	6w	Mon 5/6/96																
13	Prototype Build (Assy)	4w	Wed 6/12/96																
14	Prototype Checkout	8w	Wed 7/10/96																
15	System Integration/HW-S/W	8w	Mon 9/2/96																
16	Prototype Delivery (2 ea)	1d	Mon 10/28/96																
17	Schematic Updates (Pass 2)	1.5w	Tue 10/29/96																
18	Artwork Updates (Pass 2)	2w	Thu 11/7/96																
19	Assy/Checkout (Pass 2)	4w	Thu 11/21/96																
20	Pass 2 Updates/Release	2w	Thu 12/19/96																

SECTION 7

COST DETAIL

MICR. RIT
PHOTOTELESIS

Hardware	Micro-Rit	Hours	Rates	Labor \$	Materials	Overhead	Total Cost
Mechanical design		1040	\$26.62	\$27,684.80		\$69,212.00	\$96,896.80
Packaging		160	\$27.47	\$4,395.20		\$10,988.00	\$15,383.20
Control Panel & I/O Interface							
Electrical design		80	\$30.52	\$2,441.60		\$6,104.00	\$8,545.60
DSP Evaluation /Selection		120	\$30.52	\$3,662.40		\$9,156.00	\$12,818.40
Block Diagram		240	\$30.52	\$7,324.80		\$18,312.00	\$25,636.80
Engineering Specifications/ Updates		180	\$30.52	\$5,493.60		\$13,734.00	\$19,227.60
Component Selection		120	\$42.19	\$5,062.80		\$12,657.00	\$17,719.80
Power/Heat Analysis		160	\$26.62	\$4,259.20		\$10,648.00	\$14,907.20
Interconnect/Cabling Design		520	\$30.56	\$15,891.20		\$39,728.00	\$55,619.20
Schematic: Design/Capture		80	\$30.56	\$2,444.80		\$6,112.00	\$8,556.80
Schematic update/Pass2 (3 each)		480	\$22.92	\$11,001.60		\$27,504.00	\$38,505.60
PWB artwork design/layout (3 each)		120	\$22.92	\$2,750.40		\$6,876.00	\$9,626.40
PWB layout Pass 2 (2 each)		800	\$19.53	\$15,624.00		\$39,060.00	\$54,684.00
Documentation							
Prototype		960	\$21.93	\$21,052.80	\$30,000.00	\$52,632.00	\$73,684.80
Assembly /Checkout labor							
Materials & Fab							
H/W Project Management		480	\$42.19	\$20,251.20		\$50,628.00	\$70,879.20
Project review		320	\$42.19	\$13,500.80		\$33,752.00	\$47,252.80
Development Equipment		320	\$27.47	\$8,790.40	\$15,000.00	\$21,976.00	\$45,766.40
DSP Development station		160	\$27.47	\$4,395.20		\$10,988.00	\$15,383.20
DSP Evaluation Kit							
Total Hardware		6340		\$176,026.80	\$45,000.00	\$440,067.00	\$661,093.80

CONFIDENTIAL DATA

MICRO-RIT
PHOTOTELEESIS

Software	Hours	Rates	Labor \$	Materials	Overhead	Total Cost
Specification Document	80	\$32.81	\$2,624.80		\$6,562.00	\$9,186.80
Evaluate and select DSP	80	\$32.81	\$2,624.80		\$6,562.00	\$9,186.80
Evaluate and Select Operating system	170	\$31.51	\$5,356.70		\$13,391.75	\$18,748.45
Evaluate and Select Compiler	170	\$31.51	\$5,356.70		\$13,391.75	\$18,748.45
Other Development O/S compiler				\$15,000.00	\$0.00	\$15,000.00
Software Specification	170	\$32.81	\$5,577.70		\$13,944.25	\$19,521.95
System Management Functions						
Memory Management Routines						
Code Space Manager	320	\$30.21	\$9,667.20		\$24,168.00	\$33,835.20
Data Space Manager	320	\$32.81	\$10,499.20		\$26,248.00	\$36,747.20
Refresh Interface	160	\$25.00	\$4,000.00		\$10,000.00	\$14,000.00
Interrupt Handling	160	\$32.81	\$5,249.60		\$13,124.00	\$18,373.60
Power Management	320	\$25.00	\$8,000.00		\$20,000.00	\$28,000.00
Video System						
Video Frame Grabber SAW	420	\$28.91	\$12,140.10		\$30,350.25	\$42,490.35
Video Demodulation SAW S-Video	160	\$32.81	\$5,249.60		\$13,124.00	\$18,373.60
Video Demodulation SAW Composite	160	\$32.81	\$5,249.60		\$13,124.00	\$18,373.60
Port Wavelet compressor	240	\$32.81	\$7,874.40		\$19,686.00	\$27,560.40
Port JPEG compressor	240	\$25.00	\$6,000.00		\$15,000.00	\$21,000.00
Image Storage Handler	80	\$30.21	\$2,416.80		\$6,042.00	\$8,458.80
Communications System						
Asynch Port Interface	60	\$25.00	\$1,500.00		\$3,750.00	\$5,250.00
Synch Port Interface	120	\$25.00	\$3,000.00		\$7,500.00	\$10,500.00
Port PTAC	1650	\$28.91	\$47,693.25		\$119,233.13	\$166,926.38
Port PTAC-2	240	\$25.00	\$6,000.00		\$15,000.00	\$21,000.00
Audio System	545	\$32.64	\$17,791.00		\$44,477.50	\$62,268.50
User Interface	160	\$30.21	\$4,833.60		\$12,084.00	\$16,917.60
LED Display Driver	60	\$25.00	\$1,500.00		\$3,750.00	\$5,250.00
Push Button Interface	60	\$25.00	\$1,500.00		\$3,750.00	\$5,250.00
Menuing Interface	120	\$25.00	\$3,000.00		\$7,500.00	\$10,500.00
Remote Control/Host Mode						
Remote Control Interface	480	\$30.21	\$14,500.80		\$36,252.00	\$50,752.80
Docking Station Interface	320	\$30.21	\$9,667.20		\$24,168.00	\$33,835.20

CONFIDENTIAL DATA

MICRO-RIT
PHOTOTELEESIS

	Hours	Rates	Labor \$	Materials	Overhead	Total Cost
Software						
System Integration	1200	\$28.26	\$33,906.00		\$84,765.00	\$118,671.00
User Manuals	280	\$21.10	\$5,906.60		\$14,766.50	\$20,673.10
System Checkout & rework	475	\$25.72	\$12,217.30		\$30,543.24	\$42,760.54
Write acceptance test plan	120	\$38.91	\$4,668.60		\$11,671.50	\$16,340.10
Customer Acceptance test Plan Management	14	\$45.84	\$641.76		\$1,604.40	\$2,246.16
	277.2	\$38.91	\$10,784.47		\$26,961.17	\$37,745.63
Total Software	9431.2		\$276,997.77	\$15,000.00	\$692,494.43	\$984,492.21
Combined	15771.2		\$453,024.57	\$60,000.00	\$1,132,561.43	\$1,645,586.01

CONFIDENTIAL DATA

SECTION 8

PERSONNEL RESUMES

BRUCE C. MATHER

Manager of Software Engineering

PhotoTelesis...a business of Texas Instruments Incorporated

Dr. Mather joined PhotoTelesis Corporation in December 1993, as Director of Software Engineering. Prior to joining PhotoTelesis, he was a Senior Research Engineer at Southwest Research Institute where he was employed for seven years. He also serves as an Adjunct Professor at St. Mary's University where he teaches a course in Digital Speech Processing.

Among Dr. Mather's technical areas of expertise are robotic systems, image processing, machine perception, neural networks, virtual reality, multimedia database systems and digital signal processing. He is a member of the Institute of Electrical and Electronic Engineers (IEEE), the Society of Manufacturing Engineers (SME), and the International Neural Network Society (INNS).

Dr. Mather attended the University of Illinois in Champaign, Urbana, where he earned his BSEE degree in 1980, his MSEE in 1983, and his PhD in Electrical Engineering in 1986. He graduated with highest honors and received the Eta Kappa Nu Senior Honor Award for academic excellence. His PhD dissertation involved advanced, multidimensional digital signal processing (DSP) of synthetic aperture radar (SAR) data.

At Southwest Research Institute, while working in their Advanced Robotics Department, he designed and developed interprocess and intercomputer communication and synchronization in the C programming language under the Unix operating system.

In 1991, Bruce joined the Advanced Training Concepts Section at SWRI and was instrumental in the development of the Visual Information System multimedia database product which runs under Windows 3.1. He also worked on an IR&D project involving a Virtual Environment system for multidimensional data visualization. His other areas of interest include speech recognition, position sensing, and holographic sound.

ROGER D. VEST

Manager of Hardware Engineering
PhotoTelesis...a business of Texas Instruments Incorporated

Mr. Vest joined PhotoTelesis Corporation in January of 1994 as Director of Hardware Engineering. Previously, he was Manager of Engineering for CompuAdd Express Corporation in Austin, Texas. In that position, he reported to the President and was responsible for all phases of product development and product sourcing. During his time there, three portable computer (notebook) products were introduced.

Prior to CompuAdd Express, Mr. Vest was employed by Texas Instruments, also in Austin, for over fifteen years. When he resigned to accept the CompuAdd Express position, he was a Senior Member of the Technical Staff. During his last year with TI, Mr. Vest managed a PWB design/layout center for their Custom Manufacturing Group. This effort included initial layout, prototype PWB fabrication, PWB assembly, and prototype checkout of customer products for several high volume computer suppliers. He has an extensive background in surface-mount technology, including footprint design, PWB layout guidelines and automatic test compatibility. He has published several articles on surface-mount technology design rules and footprint requirements.

Mr. Vest graduated from Texas Tech University in Lubbock, Texas, with a Bachelor of Science degree in Electrical Engineering. He was on the Dean's list at the time of his graduation.

WILLIAM A. KIDD

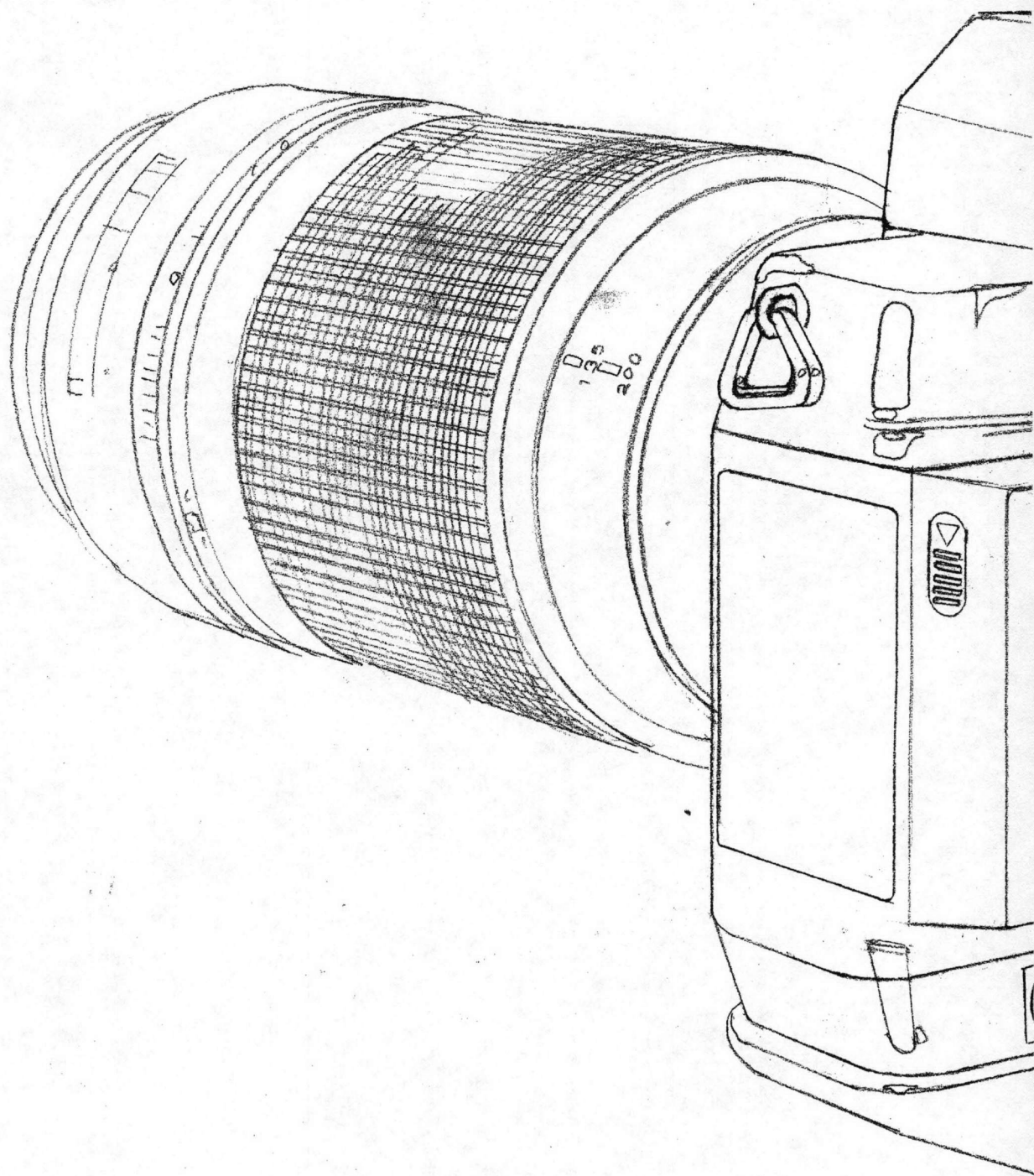
Program Manager

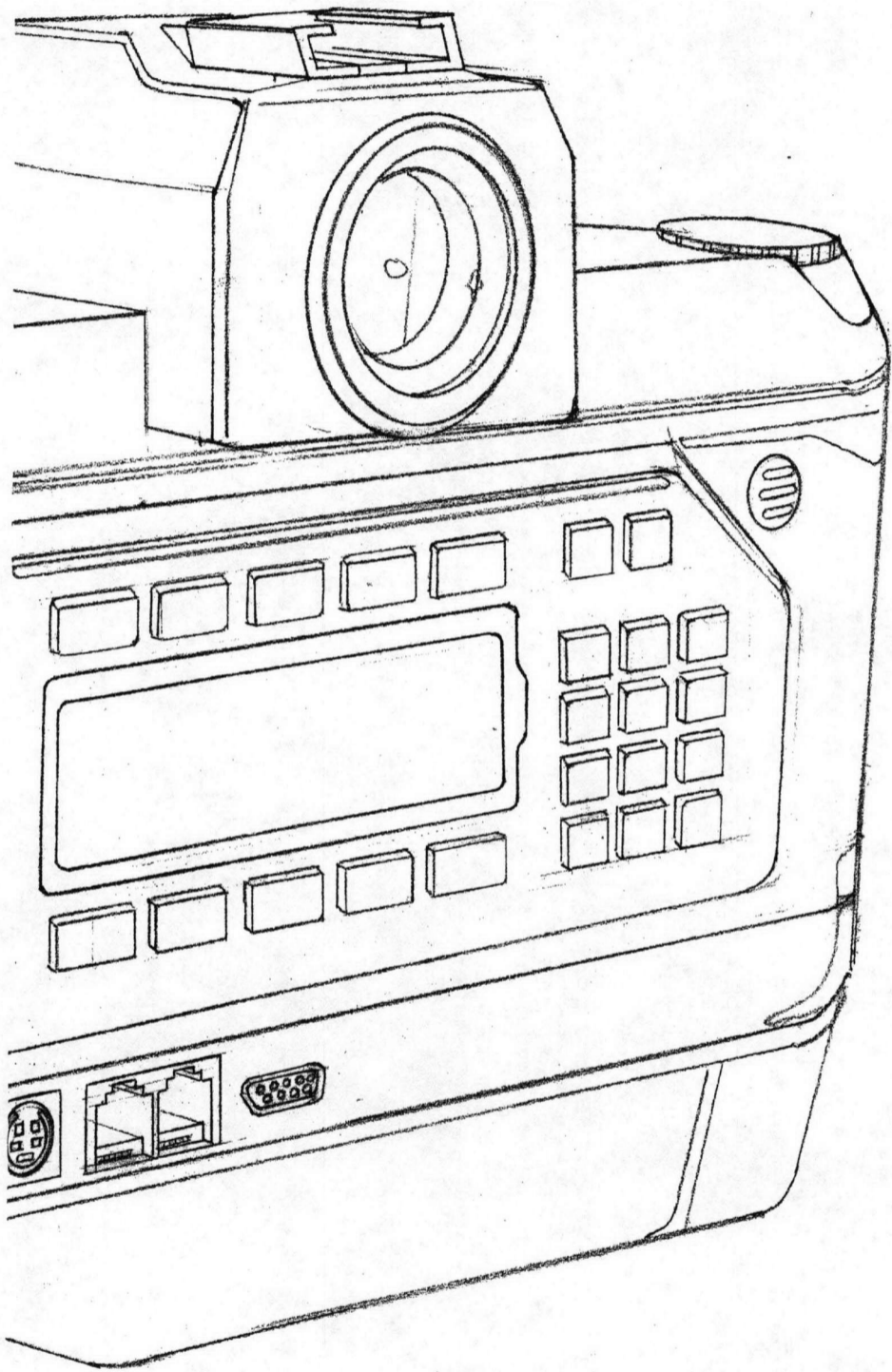
PhotoTelesis...a business of Texas Instruments Incorporated

Mr. Kidd joined Texas Instruments in June 1988. While assigned to the Airborne department of the Defense Systems and Electronics Group, Mr. Kidd was a member of the Light Helicopter program where he was the Program Control manager and cost account manager for several hundred data item submittals. Follow-on assignments included management support to numerous projects. Most recently Mr. Kidd was transferred to PhotoTelesis, a business of Texas Instruments, where he was assigned the program management responsibility for the U.S. Army's Light Weight Video Reconnaissance System (LVRS).

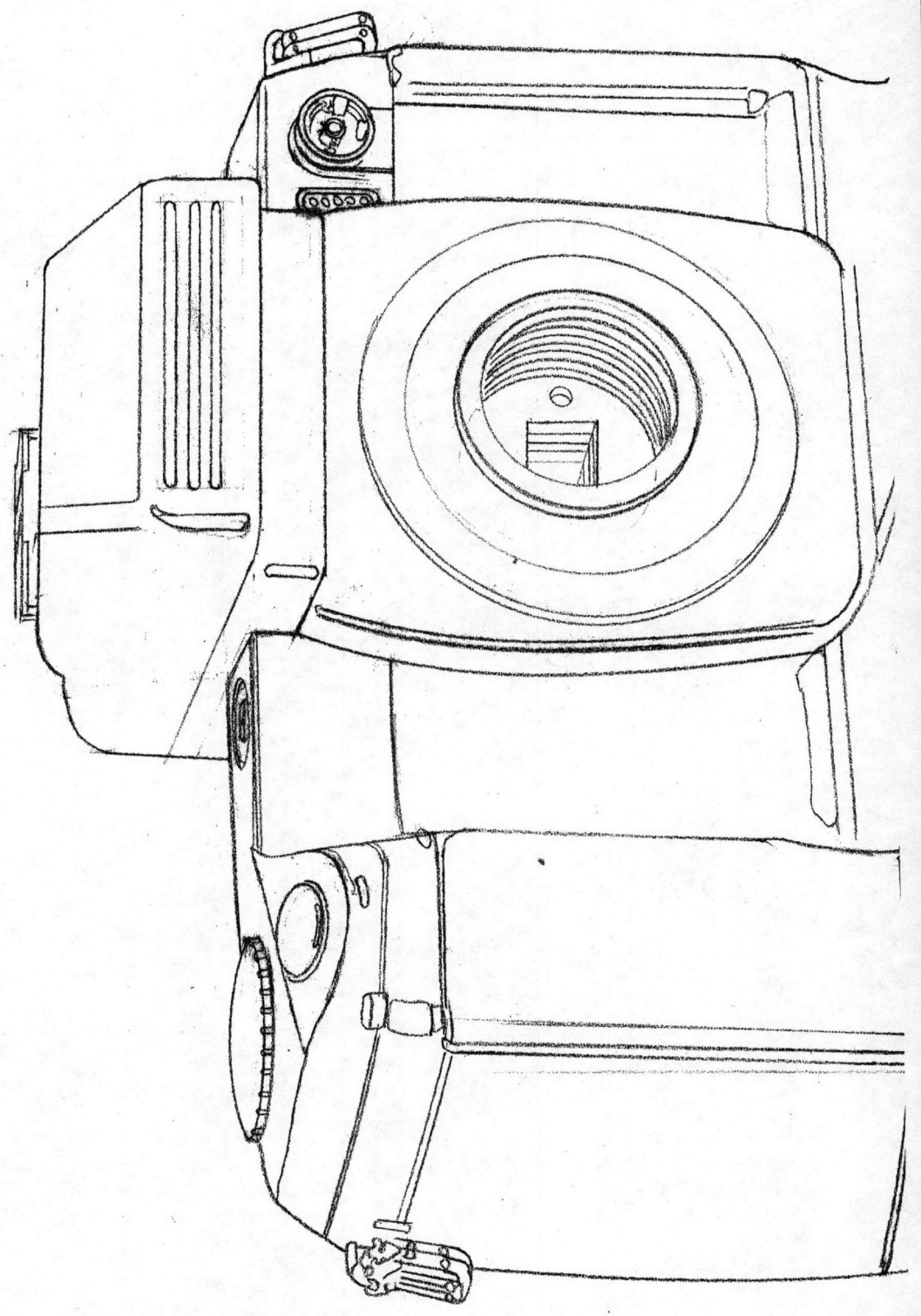
Mr. Kidd developed an excellent understanding of DoD acquisition while on active duty with the U.S. Air Force from 1967-1988. During his military career he gained more than 20 years direct experience in DoD Systems Acquisition Management. At the time of his retirement, Mr. Kidd was the Commander of Air Force Systems Command's, Systems Acquisition School. Previous Air Force program management assignments included the Pave Tack Pod program, the Pave Tack Forward Looking Infrared (FLIR) subsystem, and the Pave Tiger Mini-Drone program. Other relevant Air Force assignments include schedule planning and control for launch, on-orbit support, and recovery of satellite payloads, and Air Force Plant Representative Officer at a defense contractor's facility, responsible for on-site engineering management of DEM/VAL and production programs.

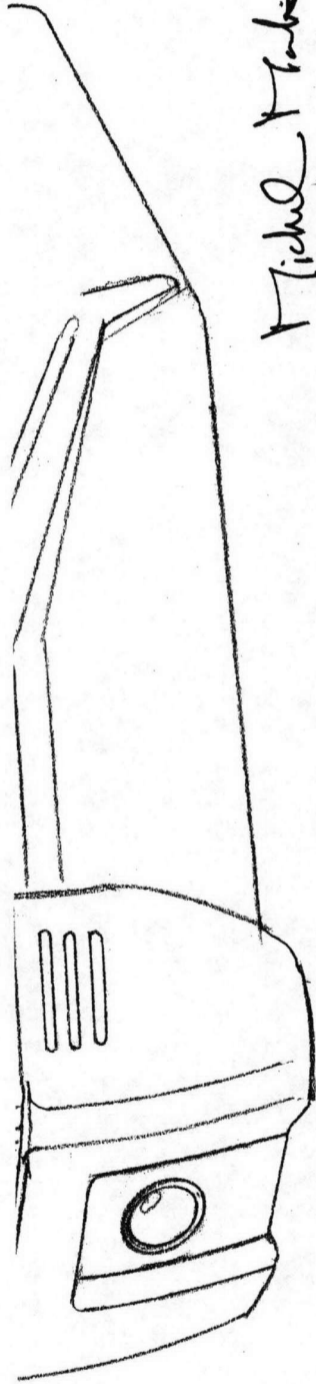
Mr. Kidd has an MS degree in Engineering Management from Arizona State University, Tempe, AZ. His undergraduate BS degree in Mechanical Engineering, was received from Grove City College, Grove City, PA.





Michel Mohr 4.92





Michel Hubert 4.9.72

