

Transaction History Date 1993-11-9
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PATENT
Attorney Docket No. 3680.0083-01000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE #3

In re Application of:)
Dennis Cameron, et al.)
Serial No.: 08/124,219) Group Art Unit: Not Yet Known
Filed: September 21, 1993) Examiner: Not Yet Known
For: A NATIONWIDE)
COMMUNICATION SYSTEM)

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

Sir:

PETITION TO THE COMMISSIONER UNDER 37 C.F.R. § 1.181

ATTENTION OFFICE OF THE ASSISTANT COMMISSIONER FOR PATENTS

This Petition, and the corresponding fee, are submitted in response to the Notice of Incomplete Application mailed October 15, 1993, indicating that a filing date had not been assigned to the above identified application. The Notice indicated that a drawing of Figures 29(A) and 29(B) were required to bring the application into compliance with 35 U.S.C. § 111. Because this application incorporates by reference parent application Serial No. 07/973,918, which does include Figures 29(A) and 29(B), this application also includes Figures 29(A) and 29(B). Accordingly, applicants respectfully request, the granting of a filing date of September 21, 1993, the date applicants initially filed this application.
DF11166 12/20/93 08124219 06-0916 110 122 130.0000

Applicants filed this application on September 21, 1993, apparently without the sheet of drawings that includes Figures

RECEIVED
NOV - 9 PM 1:54
SPECIAL PROGRAM
EXAMINATION UNIT

LAW OFFICES
NEGAN, HENDERSON
ARABOW, GARRETT
& DUNNER
300 I STREET, N.W.
WASHINGTON, DC 20005
1-202-408-4000

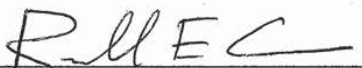
29(A) and 29(B). This application is a continuation-in-part of commonly owned parent application Serial No. 07/973,918, filed November 12, 1992, and the very first sentence of this application incorporates by reference the entire contents of the parent application. See page 1, lines 3-4 of the specification. Accordingly, this application is deemed to include all drawings of the parent application, including Figs. 29(A) and 29(B) and, therefore, was complete as of the date filed, September 21, 1993.^{1/}

Accordingly, applicants respectfully submit that originally filed application Serial No. 08/124,219 is in full compliance with 35 U.S.C. § 111, and should be assigned a filing date of September 21, 1993. Because this application was complete as originally filed, applicants request the refund of the \$130 petition fee included with this petition.

If there are any other fees due in connection with the filing of this response, not accounted for above, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By 
Russell E. Cass
Reg. No. 35,775

Dated: November 9, 1993

LAW OFFICES
FINNEGAN, HENDERSON
FARABOW, GARRETT
& DUNNER
1300 I STREET, N. W.
WASHINGTON, DC 20005
1-202-408-4000

^{1/} Applicants have included a copy of Figures 29(A) and 29(B) for the convenience of the Office. This copy of Figs. 29(A) and 29(B) is identical to the corresponding figures in the parent application.

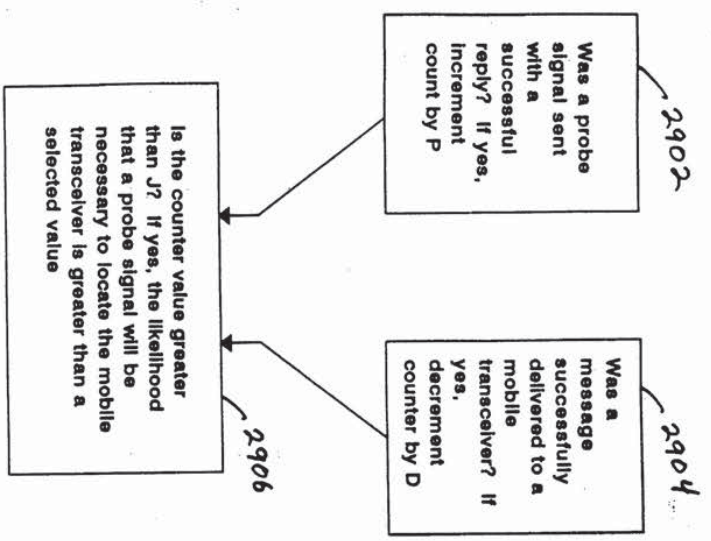


Fig. 29(A)

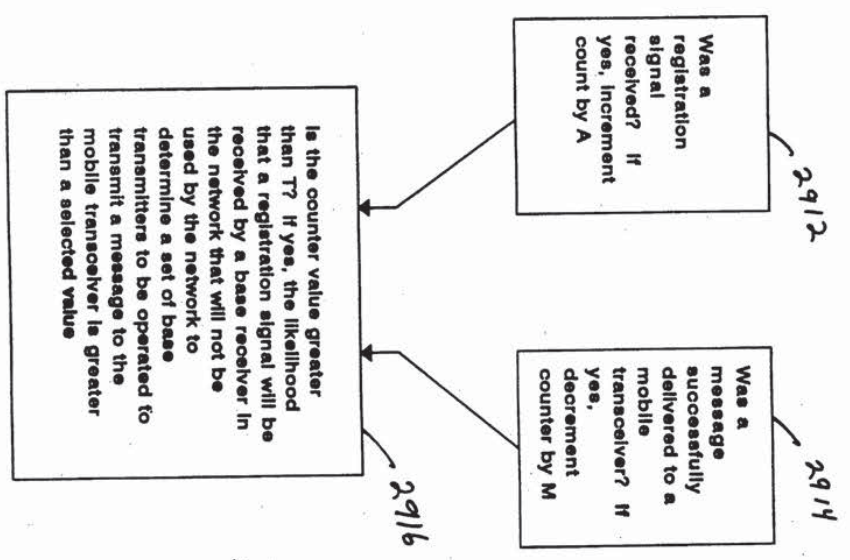


Fig. 29(B)



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

APPLICATION NUMBER	RECEIPT DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
08/124.219	09/21/93	CAMERON	D 03680.00830

RECEIVED

AM

0381/1015
 OCT 18 1993
 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER
 1300 I ST. NW
 WASHINGTON, DC 20005-3315
 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER

0000

DATE MAILED: 10/15/93

NOTICE OF INCOMPLETE APPLICATION

A filing date has NOT been assigned to the above identified application papers for the reason(s) shown below.

- 1. The specification (description and claims):
 - a. is missing
 - b. has pages _____ missing
 - c. does not include a written description of the invention.
 - d. does not include at least one claim in compliance with 35 U.S.C. 112.

A complete specification in compliance with 35 U.S.C. 112 is required.

- 2. A drawing of Figure(s) *Fig A & B* described in the specification is required in compliance with 35 U.S.C. 111.
- 3. A drawing of applicant's invention is required since it is necessary for the understanding of the subject matter of the invention in compliance with 35 U.S.C. 113.
- 4. The inventor's name(s) is missing. The full names of all inventors are required in compliance with 37 CFR 1.41.
- 5. Other:

All of the above-noted items, unless otherwise indicated, must be submitted within **TWO MONTHS** of the date of this notice or the application will be returned or otherwise disposed of. Any fee which has been submitted will be refunded less a \$ 130 handling fee. See 37 CFR 1.53(c).

The filing date will be the date of receipt of all items required above, unless otherwise indicated. Any assertions that the items required above were submitted, or are not necessary for a filing date, must be by a petition directed to the attention of the Office of the Assistant Commissioner for Patents accompanied by the \$ 130 petition fee (37 CFR 1.17(h)). If the petition states that the application is complete, a request for refund of the petition fee may be included in the petition.

Direct the response and any questions about this notice to, Attention:
 Application Processing Division, Special Processing and Correspondence Branch.

A copy of this notice MUST be returned with the response.

Enclosed:

- "General Information Concerning Patents." See page _____
- Copy of a patent to assist applicant in making corrections.
- "Notice to File Missing Parts of Application," Form PTO-1532.
- Other: _____

Williams) TC
 Application Processing Division
 (703) 308-1202

Docketed 10-18-93 Attorney JMR/VRK
 Case 3680-83-01
 Due Date 12-15-93 + call us
 Action RESPONSE DUE
 By DS

ATTORNEYS/APPLICANTS COPY



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER OF
PATENTS AND TRADEMARKS
Washington, D.C. 20231

THA

NOV 10 1993

Finnegan, Henderson, Farabow,
Garrett & Dunner
1300 I Street, N.W.
Washington, DC 20005-3315

In re Application of :
Dennis Cameron et al. :
Serial No. 08/124,219 : DECISION ON PETITION
Filed: September 21, 1993 :
Attorney Docket No. 03680.0083-01 :

This is a decision on the petition filed November 9, 1993,
requesting that the above-identified application be accorded a
filing date of September 21, 1993.

The application was deposited on September 21, 1993, accompanied
by twenty-eight (28) sheets of drawings containing Figures 1-28B.
However, on October 15, 1993, Application Division mailed a
notice requiring a drawing of Figures 29A and 29B described in
the specification and stating that the filing date would be the
date of receipt of the omitted drawing.

In response, the present petition was filed. Petitioners argue
that Figures 29A and 29B were present in the Office on September
21, 1993, in application Serial No. 07/973,918, which was
incorporated by reference in the present application on filing.
Therefore, petitioners argue that the present application was
complete on September 21, 1993, because it included all of the
drawings in the parent application. In support, the petition is
accompanied by a copy of Figures 29A and 29B which correspond to
the description thereof in the specification. The petition, which
is signed by a registered practitioner, also includes a statement
that the copy is identical to the figures contained in the parent
application.

Page 1 of the specification, as filed, does incorporate by
reference application Serial No. 07/973,918, which was filed on
November 12, 1992. Therefore, the later submission of Figures 29A
and 29B does not raise the issue of new matter. Since it is now
clear that a drawing of Figures 29A and 29B described in this
application was present in the Office on September 21, 1993,

albeit in a different application file, on petition, the application may be accorded a filing date of September 21, 1993.

In view of the above, the petition is granted.

However, the petition fee will not be refunded. The specification filed on September 21, 1993, described Figures 29A and 29B, but no drawing of Figure 29A or Figure 29B was received with the specification. Applicants did not request that the drawings in the parent application be transferred to the present case. Thus, the application was prima facie incomplete and the present petition was necessary to correct applicants' filing error.

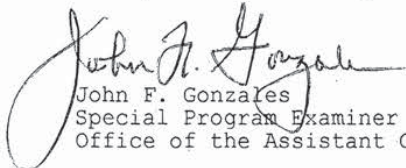
The sheet of drawing containing Figures 29A and 29B which was filed on November 9, 1993, with the petition will be considered by the examiner as an additional sheet of drawing during examination of the application pursuant to MPEP 608.02(h).

The "Notice" mailed October 15, 1993, is vacated.

Applicants are given ONE MONTH from the date of this decision to file an oath or declaration in compliance with 37 CFR 1.63 and to pay the \$130.00 surcharge set forth in 37 CFR 1.16(e) in order to avoid abandonment of the application. This time period may be extended pursuant to 37 CFR 1.136(a). The oath or declaration should identify the specification to which it is directed by reference to the above-identified serial number and filing date. Applicants' response should be directed to the attention of Application Division.

The application is being forwarded to the Office of Finance for charging the \$130.00 petition fee to counsel's deposit account No. 16-2435.

Thereafter, the application will be returned to Application Division to await applicants' response and for further processing with a filing date of September 21, 1993, including an indication on the file wrapper that twenty-eight (28) sheets of drawings were present on filing.


John F. Gonzales
Special Program Examiner
Office of the Assistant Commissioner for Patents

JFG

#5

PATENT
Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Dennis Cameron et al.)
Serial No.: 08/124,219)
Filed: September 21, 1993)
For: A NATIONWIDE COMMUNICATION)
SERVICE)

Group Art Unit: Not Yet
Assigned
Examiner: Not Yet Assigned

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

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SPECIAL PROGRAMS OFFICE
AC PATENTS

Sir:

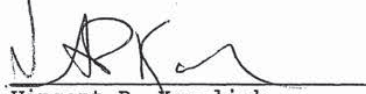
POWER TO INSPECT FILE WRAPPER

Finnegan, Henderson, Farabow, Garrett and Dunner and the
attorneys of record hereby authorize Steve Nate to inspect the
above-identified patent application and make copies of papers in
the file of this application.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By:



Vincent P. Kovalick
Reg. No. 32,867

Dated: November 10, 1993

LAW OFFICES
FINNEGAN, HENDERSON
FARABOW, GARRETT
& DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005
1-202-408-4000

Transaction History Date 1994-1-25
Date information retrieved from USPTO Patent
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system records at www.uspto.gov

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130.00 105



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Dennis Cameron, et al.)
Serial No.: 08/124,219) Group Art Unit: Not Yet Known
Filed: September 21, 1993) Examiner: Not Yet Known
For: A NATIONWIDE)
COMMUNICATION SYSTEM)

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

Sir:

SUBMISSION OF DECLARATION/POWER OF ATTORNEY

In response to the instructions set forth in the Decision on
Petition dated November 10, 1993, Applicants submit a Declaration/
Power of Attorney for filing in the above-identified application,
the required fee of \$130.00, and two month extension fee of
\$360.00.

Please associate the enclosed documents with the above
identified application.

If there are any other fees due in connection with the filing
of this response, please charge the fees to our Deposit Account
No. 06-0916. If a fee is required for an extension of time under
37 C.F.R. 1.136 not accounted for above, such an extension is

LAW OFFICES
JEGAN, HENDERSON
RABOW, CARRETT
& DUNNER
800 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

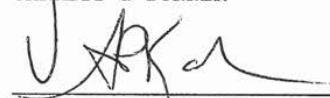
140 KS 02/08/94 08124219 1 116 360.00 CK
140 KS 02/08/94 08124219 1 105 130.00 CK

requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By:



Vincent P. Kovalick
Reg. No. 32,867

Dated: January 25, 1994

LAW OFFICES
FINNEGAN, HENDERSON
FARABOW, GARRETT
& DUNNER
1300 1 STREET, N.W.
WASHINGTON, DC 20005
1-202-408-4000

HC

ATTORNEY DOCKET NO: 03680.0083-01

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A NATIONWIDE COMMUNICATION SERVICE

the specification of which is [] attached and/or [X] was filed on September 21, 1993 as Application Serial No. and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Table with 4 columns: COUNTRY, APPLICATION NUMBER, DATE OF FILING, PRIORITY CLAIMED UNDER 35 U.S.C. 119 (YES/NO)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Table with 3 columns: APPLICATION NUMBER, DATE OF FILING, STATUS (Patented, Pending, Abandoned)

I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Finnegan, Henderson, Farabow, Garrett and Dunner, Reg. No. 22,540; Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Robert J. Gaybrick, Reg. No. 27,890; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Stephen J. Rosenman, Reg. No. 29,209; Barry W. Graham, Reg. No. 29,924; Thomas H. Jenkins, Reg. No. 30,857; and Vincent P. Kovalick, Reg. No. 32,867. Please address all correspondence to FINNEGAN, HENDERSON, FARABOW, GARRETT AND DUNNER, 1300 I Street, N.W., Washington, D.C. 20005, Telephone No. (202) 408-4000.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Form for Sole or First Inventor: DENNIS WAYNE CAMERON, 29 Polo Drive, Jackson, MS 39211, dated 12/4/93

Form for Second Joint Inventor: WALTER CHARLES ROEHR, 11317 South Shore Rd., Reston, VA 22090, dated 7/02/93

Listing of Inventors Continued on Page 2 hereof. [X] Yes [] No

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER • WASHINGTON, D.C.

FHFGD Form 102A 2/90

Listing of Inventors Continued from Page 1 of Declaration and Power of Attorney for invention entitled:

A NATIONWIDE COMMUNICATION SYSTEM

300	FULL NAME OF THIRD JOINT INVENTOR, IF ANY <u>RADE PETROVIC</u>	INVENTOR'S SIGNATURE <i>Rade Petrovic</i>	DATE 10-1-93
	RESIDENCE 406 Redbud Lane, Oxford, MS 38655		CITIZENSHIP Yugoslavia
	POST OFFICE ADDRESS		
400	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY <u>JAI P. BHAGAT</u>	INVENTOR'S SIGNATURE <i>Jai P. Bhagat</i>	DATE 10-4-93
	RESIDENCE 155 Rolling Meadows Dr., Jackson, MS 39211		CITIZENSHIP U.S.
	POST OFFICE ADDRESS		
500	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY <u>MASOOD GARAH</u>	INVENTOR'S SIGNATURE <i>Masood Garah</i>	DATE 10/4/93
	RESIDENCE 454 Morning Forest Lane, Madison, MS 39110		CITIZENSHIP U.S.
	POST OFFICE ADDRESS		
600	FULL NAME OF SIXTH JOINT INVENTOR, IF ANY <u>WILLIAM D. HAYS</u>	INVENTOR'S SIGNATURE <i>William D. Hays</i>	DATE 10-4-93
	RESIDENCE 2345 Twin Lake Circle, Jackson, MS 39211		CITIZENSHIP U.S.
	POST OFFICE ADDRESS		
700	FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY <u>DAVID W. ACKERMAN</u>	INVENTOR'S SIGNATURE <i>David W. Ackerman</i>	DATE 10.6.
	RESIDENCE 3730 W St., N.W., Washington, D.C. 20007		CITIZENSHIP U.S.
	POST OFFICE ADDRESS		
	FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	RESIDENCE		CITIZENSHIP
	POST OFFICE ADDRESS		
	FULL NAME OF NINTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	RESIDENCE		CITIZENSHIP
	POST OFFICE ADDRESS		
	FULL NAME OF TENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	RESIDENCE		CITIZENSHIP
	POST OFFICE ADDRESS		



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
Dennis CAMERON, ET AL.)	
Serial No.: 08/124,219	)	Group Art Unit: Not Yet Assigned
Filed: September 21, 1993	)	Examiner: Not Yet Assigned
For: A NATIONWIDE COMMUNICATION SERVICE	)	Assignment Branch

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

Sir:

SUBMISSION OF ASSIGNMENT OF APPLICATION

Applicants hereby submit the executed Assignment of the application in the above-captioned matter from Dennis Cameron, et al. assigning their rights in the invention to Mobile Telecommunication Technologies. Please record the Assignment and return to the undersigned.

The required \$40.00 recordation fee is enclosed.

If there are any additional fees due in connection with the filing of this assignment, the Commissioner is authorized to charge these fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By: 

Vincent P. Kovalick
Reg. No. 32,867

LAW OFFICES
FINNEGAN, HENDERSON
FARABOW, GARRETT
& DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005
1-202-408-4000

Dated: January 25, 1994



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/124,219 09/21/93 CAMERON

D 03680.008301

EXAMINER

LE, T

ART UNIT PAPER NUMBER

7

26M2/0505

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005

2611

DATE MAILED:

05/05/94

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on _____ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), — days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- Notice of References Cited by Examiner, PTO-892.
- Notice of Draftsman's Patent Drawing Review, PTO-948.
- Notice of Art Cited by Applicant, PTO-1449.
- Notice of Informal Patent Application, PTO-152.
- Information on How to Effect Drawing Changes, PTO-1474.
- _____

Part II SUMMARY OF ACTION

- Claims 1-9 are pending in the application.
Of the above, claims _____ are withdrawn from consideration.
- Claims _____ have been cancelled.
- Claims _____ are allowed.
- Claims 1-9 are rejected.
- Claims _____ are objected to.
- Claims _____ are subject to restriction or election requirement.
- This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
- Formal drawings are required in response to this Office action.
- The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
- The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
- The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
- Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
- Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
- Other

EXAMINER'S ACTION

Serial Number: 08/124,219

-2-

Art Unit: 2611

Part III DETAILED ACTION

1. The drawings are objected to because figures 1-5 should be labelled as prior art. Correction is required.
2. Claims 1-9 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 1 and 6, it is not clear what the claims set forth nor how the elements connect to each other (means for receiving, switching means, means for retransmitting).

The phrases "said message" (Claim 1, lines 6 and 9), "the message" (Claim 2, line 2), "a mobile unit" (claim 6, lines 3 and 5), "the retransmitting means" (Claim 7, line 2) and "the network" (Claim 4, line 2, Claim 9, lines 4 and 10-13) lack antecedent basis.

3. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention

Serial Number: 08/124,219

-3-

Art Unit: 2611

were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

4. Claims 1-9 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of O'Sullivan.

As to claims 1-9, Tsurumi, Figs. 1-2, teaches a communication system for transmitting and receiving radio frequency signals comprising means for transmitting message from the communication network to the mobile unit (410), means for receiving messages from the communication network (7-9), means for transmitting, upon actuation of the switching means, a signal to the communication network (15, 5, 4), and a display for displaying the message (10). Tsurumi fails to show the means for retransmitting message when the message contains error. However, O'Sullivan teaches a communication system having means for determining if the message contains error and means for retransmitting message with an error correcting code (Fig. 1; Col. 4, lines 17-38; Abstract); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Tsurumi system by providing the teaching of the O'Sullivan system thereto in order to improve the data transmission in the communication system.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Serial Number: 08/124,219

-4-

Art Unit: 2611

Iwasaki teaches a message inter-communication system having an error detector circuit for detecting CRC code and requesting the retransmission of the message data.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

TL
Thanh Le
Apr 30, 1994

R. J. Eisenzopf
Reinhard J. Eisenzopf 5-2-94
Supervisory Patent Examiner
Group 260

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO. 88/124219	GROUP/ART UNIT 2611	ATTACHMENT TO PAPER NUMBER 7		
NOTICE OF REFERENCES CITED				APPLICANT(S) Cameron et al				
U.S. PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE		
A	4697281	9/87	O'Sullivan	455	33.1			
B								
C								
D								
E								
F								
G								
H								
I								
J								
K								
FOREIGN PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L	JA 82715	3/89	JP	TSURUMI	455	69		
M	JA 181241	7/89	JP	IWASAKI	455	69		
N								
O								
P								
Q								
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)								
R								
S								
T								
U								
EXAMINER THANH LE			DATE 4/30/94					
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)								

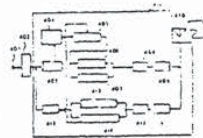
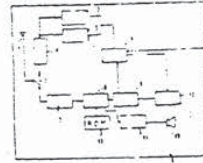
JA 0082715
MAR 1989

64: PAGING SYSTEM

(1) JA 0082715 (A) (2) 29.3.1989 (19) JP
(3) Appl. No. 61,23882 (29) 25.9.1987
(4) TOSHIBA CORP. (5) HIROSHI TSURUMI
(6) Int. Cl. H04B 7/26

PURPOSE: To reduce the capacity in the memory in a pager by sending a process confirmation signal to a base station after a message is processed, and sending a next message from the base station.

CONSTITUTION: The user of the pager 14 finishes confirming the message and then the process confirmation signal is sent to the base station 416. The pager 14 therefore receives the next message from the base station 416. This operation is carried out continuously, so messages are transmitted with the limited memory capacity. Further, information on the capacity of the memory 9 is sent to the base station 416 together with the process confirmation signal sent by the pager 14, so the messages are sent by the base station 416 according to the state of the memory 9. Consequently, the memory capacity is minimized.



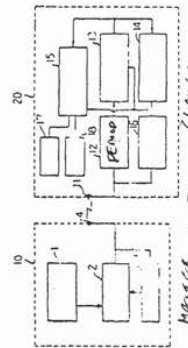
1: amplifier, 2: transmission conformator, signal generating circuit, 3: amplifier, 4: process confirmation signal generating circuit, 5: control circuit, 6: reception part, 7: modulation part, 8: display, 9: memory, 10: switch, 11: sound signal generating circuit, 12: speaker, 13: switch, 14: telephone set, 15: exchange, 16: signal detector, 17: message part, 18: control signal generation part, 19: sound signal generation, 20: modulation part, 21: transmission part, 22: level part, 23: transmission conformator, 24: signal detector part, 25: confirmation part, 26: signal detection part, 27: answer part, 28: demodulation part, 29: memory.

(54) RADIO PAGING SYSTEM

(11) 1-181241 (A) (43) 19.7.1989 (19) JP
(21) Appl. No. 63-5444 (22) 13.1.1988
(71) VICTOR CO OF JAPAN LTD (72) YOSHIKI IWASAKI(2)
(51) Int. Cl. H04B7/26, H04L1/02

PURPOSE: To decrease the time occupied by data transmission and to reduce the waiting time by extracting an error detection code included in a data in case of transmission from a master equipment to a slave equipment and transmitting a transmission stop command from the slave equipment to the master equipment at the point of time of deciding that there exists no error.

CONSTITUTION: A sent signal is received by an antenna 11 in the slave equipment 20, subjected to various processings such as demodulation by a reception circuit 12 and subjected to averaging being the processing of averaging data by an averaging processing circuit 13. Furthermore, the output of the averaging processing circuit 13 is inputted to an error detection circuit 14, and a transmission circuit 16 receiving a signal representing no error existence transmits a transmission stop command from the antenna 11. Since the transmission stop command is transmitted to the master equipment when the reception state is excellent and data transmission from the master equipment to the slave equipment is implemented without error in this way, no unnecessary transmission/reception is executed, the channel occupying time is reduced and the waiting time is decreased and the power consumption in the entire radio paging system is reduced.



10: master equipment, 1: code message input device,
2: transmission circuit, 3: reception circuit, 17: buzzer,
18: display device, 15: processing circuit

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 703-305-8404.

The drawings filed (insert date) 9/21/93

A. not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
 Black ink. Color.
 Not black solid lines. Fig(s) _____
 Color drawings are not acceptable until petition is granted.

2. PHOTOGRAPHS. 37 CFR 1.84(b)
 Photographs are not acceptable until petition is granted.

3. GRAPHIC FORMS. 37 CFR 1.84 (d)
 Chemical or mathematical formula not labeled as separate figure. Fig(s) _____
 Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____
 Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____

4. TYPE OF PAPER. 37 CFR 1.84(e)
 Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____
 Erasures, alterations, overwritings, interlineations, cracks, creases, and folds not allowed. Sheet(s) _____

5. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable paper sizes:
 21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)
 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)
 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)
 21.0 cm. by 29.7 cm. (DIN size A4)
 All drawing sheets not the same size. Sheet(s) _____
 Drawing sheet not an acceptable size. Sheet(s) _____

6. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Paper size			
21.6 cm. X 35.6 cm. (8 1/2 X 14 inches)	21.6 cm. X 33.1 cm. (8 1/2 X 13 inches)	21 cm. X 27.9 cm. (8 1/2 X 11 inches)	21 cm. X 29.7 cm. (DIN Size A4)
T 5.1 cm. (2")	2.5 cm. (1")	2.5 cm. (1")	2.5 cm. (1")
L .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	2.5 cm. (1")
R .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.5 cm. (5/8")
B .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.0 cm. (3/8")

Margins do not conform to chart above.
 Sheet(s) 305, 13, 15-26
 Top (T) Left (L) Right (R) Bottom (B)

7. VIEWS. 37 CFR 1.84(h)
 REMINDER: Specification may require revision to correspond to drawing changes.
 All views not grouped together. Fig(s) _____
 Views connected by projection lines. Fig(s) _____
 Views contain center lines. Fig(s) _____

Partial views. 37 CFR 1.84(h)(2)
 Separate sheets not linked edge to edge. Fig(s) _____
 View and enlarged view not labeled separately. Fig(s) _____
 Long view relationship between different parts not clear and unambiguous. 37 CFR 1.84(h)(2)(ii) Fig(s) _____

Sectional views. 37 CFR 1.84(h)(3)
 Hatching not indicated for sectional portions of an object. Fig(s) _____
 Hatching of regularly spaced oblique parallel lines not spaced sufficiently. Fig(s) _____
 Hatching not at substantial angle to surrounding axes or principal lines. Fig(s) _____
 Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____
 Hatching of juxtaposed different elements not angled in a different way. Fig(s) _____

Alternate position. 37 CFR 1.84(h)(4)
 A separate view required for a moved position. Fig(s) _____

Modified forms. 37 CFR 1.84(h)(5)
 Modified forms of construction must be shown in separate views. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
 View placed upon another view or within outline of another. Fig(s) _____
 Words do not appear in a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. SCALE. 37 CFR 1.84(k)
 Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
 Indication such as "actual size" or "scale 1/2" not permitted. Fig(s) _____
 Elements of same view not in proportion to each other. Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
 Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings). Fig(s) 10

11. SHADING. 37 CFR 1.84(m)
 Shading used for other than shape of spherical, cylindrical, and conical elements of an object, or for flat parts. Fig(s) _____
 Solid black shading areas not permitted. Fig(s) _____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
 Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) 1-26B
 Numbers and reference characters used in conjunction with brackets, inverted commas, or enclosed within outlines. 37 CFR 1.84(p)(1) Fig(s) _____
 Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) 27
 English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) _____
 Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3) Fig(s) 3, 19

13. LEAD LINES. 37 CFR 1.84(q)
 Lead lines cross each other. Fig(s) _____
 Lead lines missing. Fig(s) _____
 Lead lines not as short as possible. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
 Number appears in top margin. Fig(s) _____
 Number not larger than reference characters. Fig(s) _____
 Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____

15. NUMBER OF VIEWS. 37 CFR 1.84(u)
 Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
 View numbers not preceded by the abbreviation Fig. Fig(s) _____
 Single view contains a view number and the abbreviation Fig. Fig(s) _____
 Numbers not larger than reference characters. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w)
 Corrections not durable and permanent. Fig(s) _____

17. DESIGN DRAWING. 37 CFR 1.152
 Shading shown not appropriate. Fig(s) _____
 Solid black shading not used for color contrast. Fig(s) _____

Serial no. on long by Fig 10
Descriptive matters on



Transaction History Date 1994-11-1
 Date information retrieved from USPTO Patent
 Application Information Retrieval (PAIR)
 system records at www.uspto.gov

870-117

GP2611
 PATENT

Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
 Dennis W. CAMERON ET AL.)
 Serial No.: 08/124,219)
 Filed: September 21, 1993)
 For: NATIONWIDE COMMUNICATION)
 SYSTEM)

NOV 15 11:39
 GROUP 260
 Group Art Unit: 2611
 Examiner: T. Le

9/ Reg
 Eye
 D. Bardie
 11-17-94

TRANSMITTAL LETTER

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

Sir:

Enclosed is a response to the Office Action of May 5, 1994. The items checked below are appropriate:

[X] Applicants hereby petition for a three month extension of time to respond to the above Office Action. The fee of \$870.00 for the Extension is enclosed.

The claims are calculated below:

	Claims Remaining After Amendment		Highest Number Previously Paid	Present Extra	Rate	Additional Fee
Total	9	-	20	0	x \$ 22	\$ 0.00
Indep.	3	-	3	0	x \$ 76	0.00
Subtotal						\$ 0.00
TOTAL						\$ 0.00

[X] A check for \$ 870.00 to cover the above fee is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Date: November 1, 1994

By:
 Vincent P. Kovalick
 Registration No. 32,867
 FINNEGAN, HENDERSON, FARABOW,
 GARRETT & DUNNER
 1300 I Street, N.W.
 Washington, D.C. 20005-3315
 (202) 408-4000

050 MH 11/14/94 08124219

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#10/A
D. Egan
11-17-94

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PATENT
Attorney Docket No. 3680.0083-01
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

F.R.D.K

11-17-94
nc

In re Application of)
Dennis W. CAMERON ET AL.) Group Art Unit: 2611
Serial No.: 08/124,219) Examiner: T. Le
Filed: September 21, 1993)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

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

Sir:

AMENDMENT

In response to the Office Action dated May 5, 1994, please
amend the above-identified application as follows:

IN THE CLAIMS:

Claim 1, line 3, after "receiving" insert --a--; and
change "messages" to --message--.

Claim 4, line 2, after "the" insert --communications--

Claim 6, line 3, change "a" to --the--; and
line 5, change "a" to --the--.

Claim 7, line 1, after "the" insert --means for--; and
line 2, delete "means" (first occurrence).

Claim 9, line 4, after "the" (first occurrence) insert
--communications--;

line 10, after "the" insert --communications--;

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line 11, after "the" (second occurrence) insert
--communications--; and
line 13, after "the" (second occurrence) insert
--communications--.

REMARKS

Applicants have noted the Examiner's objection to Figs. 1-5 and submit herewith a proposed drawing change to label these figures as "Prior Art." Upon notification of allowance of this application, applicants will effect this drawing change.

In response to the rejection of claims 1-9 under 35 U.S.C. § 112, second paragraph, applicants have amended claims 1, 2, 4, 6, 7, and 9 to overcome the Examiner's concerns regarding lack of antecedent basis. Applicants respectfully traverse the Examiner's position that claims 1 and 6 are not clear as to what they set forth or how the elements connect to each other. Claims 1 and 6 recite limitations in means-plus-function format in full compliance with 35 U.S.C. § 112, sixth paragraph. It is not required that means-plus-function limitations identify how those limitations are interconnected within a claim. Only the prior art can require applicants to add restrictive limitations, such as limitations limiting the interconnection of the claimed means, not 35 U.S.C. § 112, second paragraph. In re Borkowski & Van Venrooy, 164 U.S.P.Q. 642 (C.C.P.A. 1970).

Accordingly, applicants respectfully submit that the claims are in full compliance with the requirements of 35 U.S.C. § 112, second paragraph.

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Applicants respectfully traverse the rejection of claims 1-9 under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of O'Sullivan and request reconsideration.

Tsurumi is not concerned with the retransmission of messages that may contain errors. As a result, although Tsurumi may transmit a signal to the communication network, as suggested by the Examiner, it does not include a means for transmitting a signal to the communication network requesting retransmission of at least portions of a message, as claimed.

O'Sullivan transmits messages with error correction codes. If the base station does not receive an acknowledgment signal within a predetermined period of time, that base station retransmits the message. The mobile unit in O'Sullivan transmits an acknowledgment signal back to the base only if a message is acceptable. Thus, O'Sullivan also fails to disclose a means for transmitting a signal to the communication network requesting retransmission of at least portions of a message, as claimed.

Since neither Tsurumi nor O'Sullivan teach or suggest these features of the claims, even assuming, arguendo, that these references could be combined, that combination still fails to render the present invention obvious.

The dependent claims recite additional limitations which, when taken in conjunction with the limitations of their parent claims, further define the present invention and further distinguish the invention from the teachings of Tsurumi and O'Sullivan.

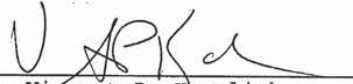
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1-202-408-4000

Accordingly, applicants respectfully submit that the claims are now in condition for allowance and request notification thereof.

If a fee is required for an extension of time under 35 U.S.C. § 1.136 not accounted for above, such an extension is requested, and the fee should be charged to our Deposit Account No. 06-0916. If there are any other fees due in connection with the filing of this response, not accounted for above, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By 
Vincent P. Kovalick
Reg. No. 32,867

Dated: November 1, 1994

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#8/25 to
D. Kovalick
11-17-94

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24 NOV 16 AM 11
GROUP 250

PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
Dennis W. CAMERON ET AL.	)	Group Art Unit: 2611
Serial No.: 08/124,219	)	Examiner: T. Le
Filed: September 21, 1993)	
For: NATIONWIDE COMMUNICATION SYSTEM)	

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

Sir:

PROPOSED DRAWING CORRECTIONS

The Examiner is requested to approve the proposed drawing changes (indicated in red) to label Figs. 1-5 as "Prior Art" and to label "overlap" area F in Fig. 1.

If there is any fee in connection with the filing of this proposed drawing changes, please charge such fee to our Deposit Account No. 06-0916.

Respectfully submitted,
FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By V. Kovalick
Vincent P. Kovalick
Reg. No. 32,867

Dated: November 1, 1994

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1-202-408-4000

Approved
VIII/95
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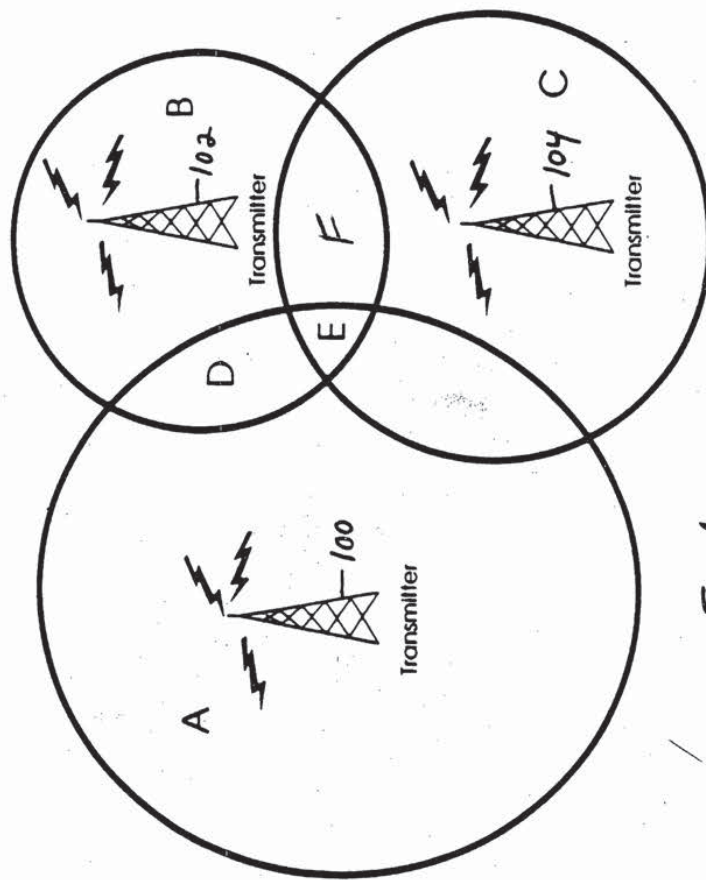


Fig. 1 PRIOR ART

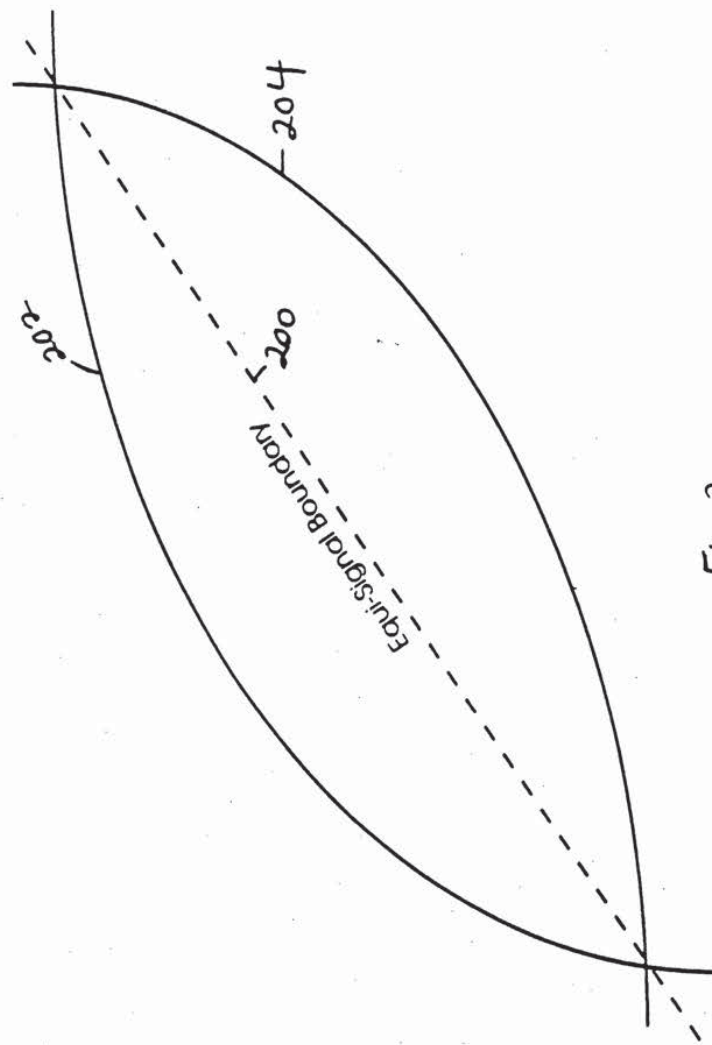


Fig. 2

PRIOR ART

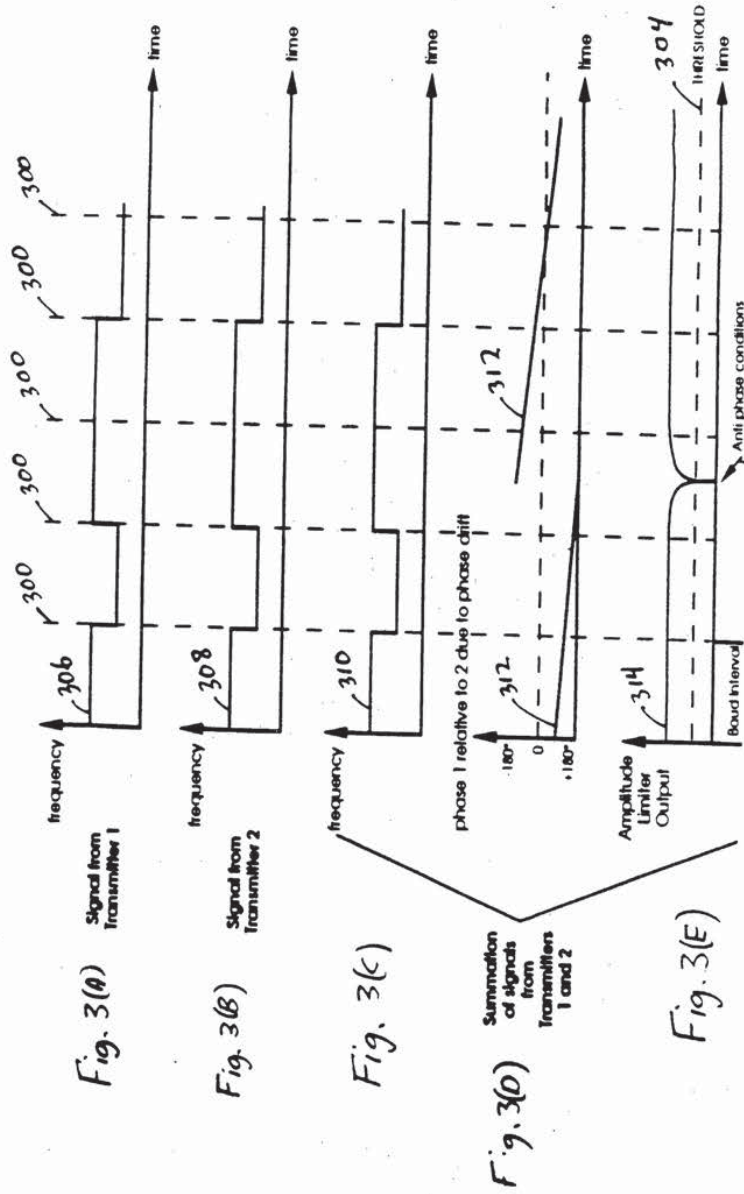


Fig. 3 PRIOR ART

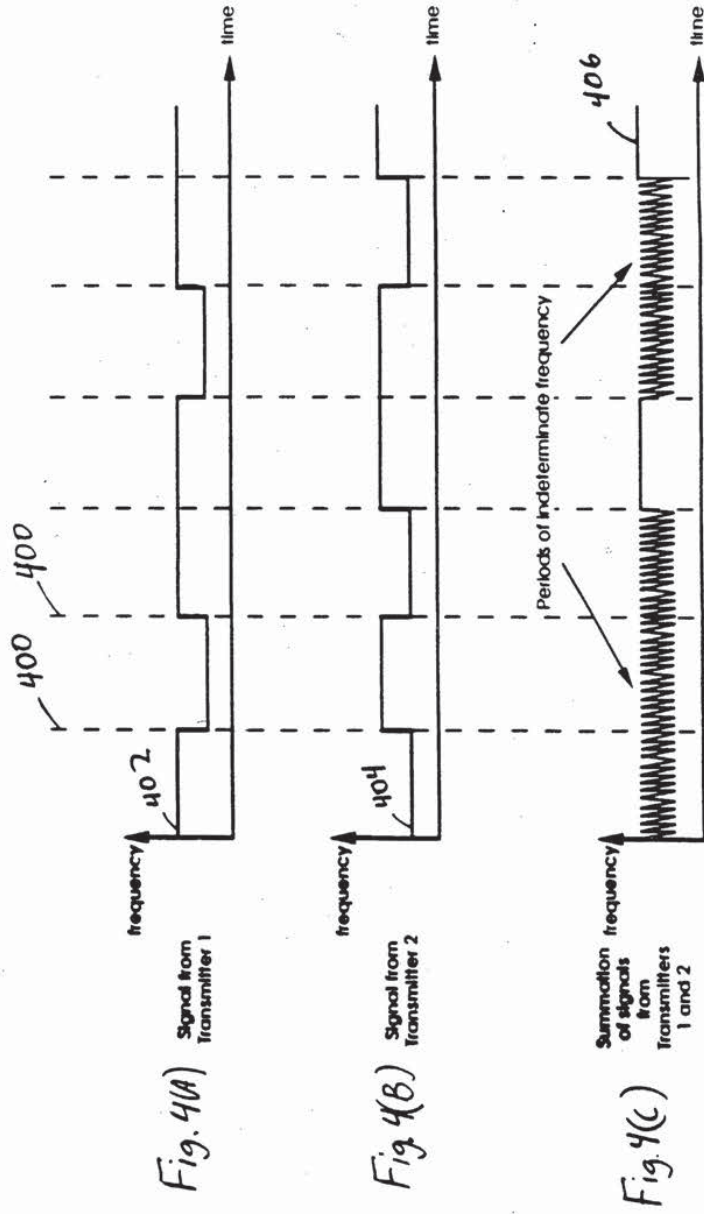


Fig. 4
PRIOR ART

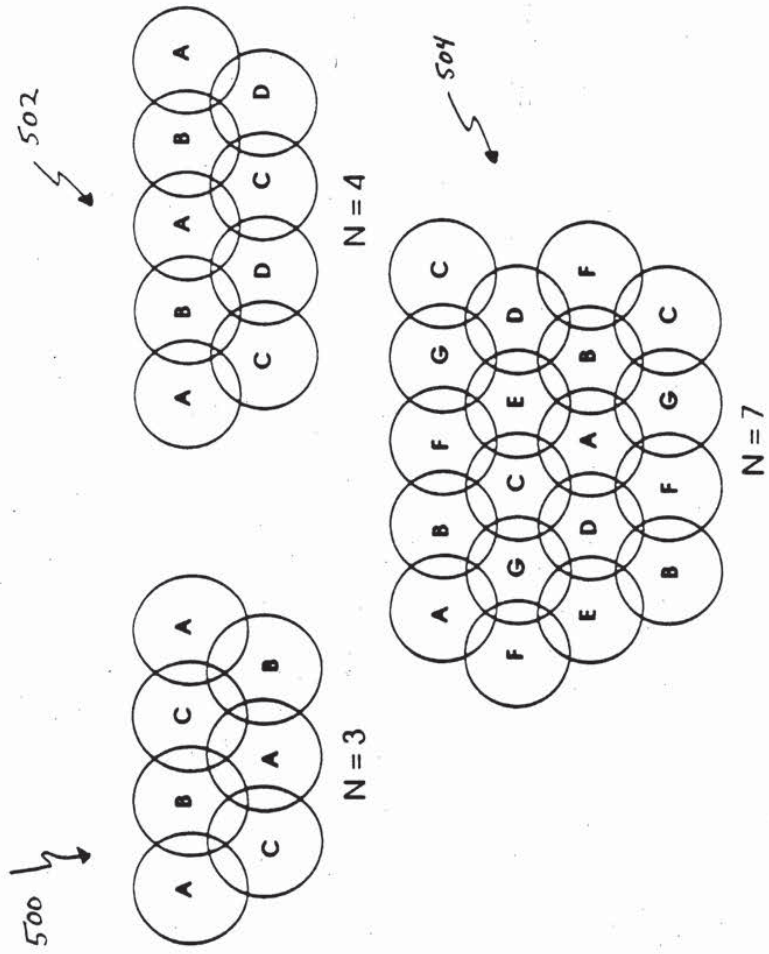


Fig. 5

PRIOR ART



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Patent and Trademark Office

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Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/124,219 09/21/93 CAMERON

D 03680,008301

EXAMINER

LE, T

ART UNIT

PAPER NUMBER

11

26M2/0123
FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005

2611

DATE MAILED:

01/23/95

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on 11-1-94 This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), — days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. Claims 1-9 are pending in the application.
Of the above, claims _____ are withdrawn from consideration.
2. Claims _____ have been cancelled.
3. Claims _____ are allowed.
4. Claims 1-9 are rejected.
5. Claims _____ are objected to.
6. Claims _____ are subject to restriction or election requirement.
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. Formal drawings are required in response to this Office action.
9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
11. The proposed drawing correction, filed 11-1-94, has been approved; disapproved (see explanation).
12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. Other

EXAMINER'S ACTION

Art Unit: 2611

Part III DETAILED ACTION

1. Applicant's arguments with respect to claims 1-9 have been considered but are deemed to be moot in view of the new grounds of rejection.

2. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

3. Claims 1-3, 5-6 and 8-9 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of "Telecommunications Protocol and Design" by Spragins et al.

As to claims 1-3, 6 and 9, Tsurumi, Figs. 1-2, teaches a communication system for transmitting and receiving radio frequency signals comprising means for transmitting message from the communication network to the mobile unit (410), means for receiving messages from the communication network (7-9), means for transmitting, upon actuation of the switching means, a

Art Unit: 2611

confirmation signal to the communication network (15, 5, 4), and a display for displaying the message (10) and the transmitting indicates to the network that the user has read the message.

Tsurumi differs from the claimed subject matter that Tsurumi fails to show means for transmitting a signal requesting retransmission at least a portion of message. However, Spragins et al teaches a two-way communication system between two locations wherein the receiving end comprises means for transmitting negative acknowledgement (NAK) signal requesting the transmitting end to retransmitting at least a portion of message (i.e., frame) (pages 280-281; figure 6.4, Nos. frame N, NAK, frame N); therefore; it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Tsurumi system by providing the teaching of the Spragins et al steps transmitting NAK signal retransmitting message thereto in order to improve the data transmission (message without error is finally received at the receiving end) in the communication system.

As to claims 5 and 8, Tsurumi teaches means for transmitting a signal indicating to the network that the user has read the message (Constitution, lines 1-2).

4. Claims 4 and 7 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of "Telecommunications Protocol

Serial Number: 08/124,219

-4-

Art Unit: 2611

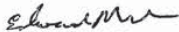
and Design" by Spragins et al as applied to claims 1-3, 5-6 and 8-9 above, and further in view of Iwasaki.

As to claims 4 and 7, the Tsurumi system modified by Spragins teaches everything except for the receiving end having means for retracting a corrected message from the received signal. However, Iwasaki teaches a system wherein data transmission from the master station to the slave station includes an CRC code and a data message, and the slave station having an error detector circuit for extracting the CRC code included in the data transmission (Figs. 1-2; Abstract); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by providing the teaching of the Iwasaki data transmission system thereto in order to accurately determine that whether an error is occurred during transmission between two locations in the communication system.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Thanh C. Le
Jan 11, 1995


EDWARD F. URBAN
PRIMARY EXAMINER
GROUP 2600

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO. 08/124,219	GROUP/ART UNIT 26 11	ATTACHMENT TO PAPER NUMBER 11		
NOTICE OF REFERENCES CITED				APPLICANT(S) Cameron et al				
U.S. PATENT DOCUMENTS								
	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE		
A								
B								
C								
D								
E								
F								
G								
H								
I								
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FOREIGN PATENT DOCUMENTS								
	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L								
M								
N								
O								
P								
Q								
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)								
R	"Telecommunications Protocols and Design" by Spragins et al Feb 1991.							
S								
T								
U								
EXAMINER THANH LE			DATE 7/11/95					
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)								



PATENT
Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#13/Rep
for
Recons
O. Gordon
06-05-95

re Application of:)
Dennis W. CAMERON et al.)
Serial No.: 08/124,219)
Filed: September 21, 1993)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Group Art Unit: 2611
Examiner: T. Le

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

Sir:

REQUEST FOR RECONSIDERATION

In the Office Action dated January 23, 1995, the Examiner rejected claims 1-3, 5-6 and 8-9 under 35 U.S.C. § 103 as being unpatentable over Tsurumi (JAPAN 64-82715) in view of Spragins et al. and rejected claims 4 and 7 under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of Spragins et al. and Iwasaki (JAPAN 1-181241).

Applicants respectfully traverse and request withdrawal of these rejections for the reasons set forth below.

Independent claim 1 defines a mobile unit comprising a combination of elements, including a switch means for allowing a user to request retransmission of at least portions of a message from a communications network. This switch means does not automatically request retransmission of improperly received message portions. The Examiner recognizes that Tsurumi fails to

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teach this claimed limitation, but contends that Spragins et al. does teach this limitation.

Spragins et al., however, discloses automatically transmitting acknowledgment signals and negative acknowledgment signals upon receiving messages. This differs from the claimed switch means, which does not automatically transmit acknowledgment signals and negative acknowledgment signals. Rather, the claimed switch means allows a user to decide whether retransmission of the improperly received message portions is desired and to request retransmission using the switch means. For example, the user may decide not to request retransmission of a message portion if the user can interpret the message, even through the message contains an improperly received message portion. Thus, neither Tsurumi nor Spragins et al. discloses or suggests the mobile unit of claim 1.

Accordingly, the rejection of claim 1 should be withdrawn and claim 1 allowed. Dependent claims 2-3, 5, and 8 should also be allowed at least because of their dependence from independent claim 1.

Claim 6 defines a communications network, including means for receiving radio frequency signals from the mobile unit indicating that the user desires the network to retransmit a portion of the message to the mobile units. The systems of the cited references do not include such a receiving means. Rather, the base station of Tsurumi receives an automatically transmitted confirmation signal indicating that a user has read a message so that the base station can transmit another message, and the base station of Spragins et al. receives automatically transmitted acknowledgment

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signals and negative acknowledgment signals. Since neither reference discloses or suggests the network of claim 6 including the receiving means, the rejection of claim 6 should be withdrawn.

Claim 9 defines a method for transmitting messages comprising a combination of steps, including the step of receiving at the mobile unit a request from a user to retransmit the message data. None of the references cited by the Examiner discloses or suggests such a receiving step. Accordingly, the rejection of independent claim 9 should be withdrawn.

The rejection of dependent claims 4 and 7, which depend from claim 1, is also improper. In particular, Iwasaki does not overcome the deficiencies of Tsurumi or Spragins et al. noted above. That is, Iwasaki does not disclose or suggest the switch means recited in claim 1, which allows a user to request retransmission of at least portions of a message from a communications network. Accordingly, the rejection of dependent claims 4 and 7 should be withdrawn, and these claims should also be allowed.

In view of the foregoing remarks, applicants respectfully request reconsideration and reexamination of this application and timely allowance of the pending claims.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is

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- 3 -

requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: May 23, 1995

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- 4 -

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2611

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PATENT Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#12/Reg
GLE
D. Gooder
06-05-95

In re Application of:)
)
Dennis CAMERON et al.)
)
Serial No.: 08/124,219)
)
Filed: September 21, 1993)
)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Group Art Unit: 2611
Examiner: T. Le

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GROUP 260

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for a one-month extension of time to respond to the Office Action of January 23, 1995. A fee of \$110.00 is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: May 23, 1995

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/124,219 09/21/93 CAMERON

D 02620 008301
 EXAMINER

LE, T

ART UNIT	PAPER NUMBER
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14

26M2/0808

FINNEGAN, HENDERSON, FARABOW,
 GARRETT & DUNNER
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2611

DATE MAILED:

08/08/95

This is a communication from the examiner in charge of your application.
 COMMISSIONER OF PATENTS AND TRADEMARKS

- This application has been examined Responsive to communication filed on 5-23-95 This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), — days from the date of this letter.
 Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. Claims 1-9 are pending in the application.
 Of the above, claims _____ are withdrawn from consideration.
2. Claims _____ have been cancelled.
3. Claims _____ are allowed.
4. Claims 1-9 are rejected.
5. Claims _____ are objected to.
6. Claims _____ are subject to restriction or election requirement.
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. Formal drawings are required in response to this Office action.
9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
11. The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. Other

EXAMINER'S ACTION

Art Unit: 2611

Part III DETAILED ACTION

1. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

2. Claims 1-3, 5-6 and 8-9 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of "Telecommunications Protocol and Design" by Spragins et al.

As to claims 1-3, 6 and 9, Tsurumi, Figs. 1-2, teaches a communication system for transmitting and receiving radio frequency signals comprising means for transmitting message from the communication network to the mobile unit (410), means for receiving messages from the communication network (7-9), means for transmitting, upon actuation of the switching means, a confirmation signal to the communication network (15, 5, 4), and a display for displaying the message (10) and the transmitting indicates to the network that the user has read the message.

Serial Number: 08/124,219

-3-

Art Unit: 2611

More specifically, Tsurumi teaches a switching means for allowing a user to acknowledge the received message. Tsurumi differs from the claimed subject matter that Tsurumi fails to show means for transmitting a signal requesting retransmission at least a portion of message. However, Spragins et al teaches a two-way communication system between two locations wherein the receiving end comprises means for transmitting negative acknowledgement (NAK) signal requesting the transmitting end to retransmitting at least a portion of message (i.e., frame) (pages 280-281; figure 6.4, Nos. frame N, NAK, frame N); therefore; it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Tsurumi system by providing the teaching of the Spragins et al steps transmitting NAK signal retransmitting message thereto in order to improve the data transmission (message without error is finally received at the receiving end) in the communication system.

As to claims 5 and 8, Tsurumi teaches means for transmitting a signal indicating to the network that the user has read the message (Constitution, lines 1-2).

3. Claims 4 and 7 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of "Telecommunications Protocol and Design" by Spragins et al as applied to claims 1-3, 5-6 and 8-9 above, and further in view of Iwasaki.

Art Unit: 2611

As to claims 4 and 7, the Tsurumi system modified by Spragins teaches everything except for the receiving end having means for retracting a corrected message from the received signal. However, Iwasaki teaches a system wherein data transmission from the master station to the slave station includes an CRC code and a data message, and the slave station having an error detector circuit for extracting the CRC code included in the data transmission (Figs. 1-2; Abstract); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by providing the teaching of the Iwasaki data transmission system thereto in order to accurately determine that whether an error is occurred during transmission between two locations in the communication system.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Davis (US 5,153,582) teaches a paging system which includes a transmitter with a plurality of selectable acknowledge signals.

5. Applicants' arguments filed May 23, 1995 have been fully considered but they are not deemed to be persuasive.

As to applicants' remarks file May 23, 1995 regarding the rejection over Tsurumi in view of "Telecommunications Protocol

Art Unit: 2611

and Design" by Spragins et al, applicants state that neither Tsurumi or Spragins discloses or suggest the mobile unit of claim 1. Examiner recognizes that applicants should consider references as a whole in responding to the examiner's rejection since the test for combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art. In this case, Tsurumi teaches a system having switching means for allowing a user to acknowledge the received message. Tsurumi differs from the claimed subject matter that Tsurumi fails to show means for transmitting a signal requesting retransmission at least a portion of message (negative-acknowledgment). On the other hand, Spragins et al teaches a two-way communication system wherein the receiving end comprises means for transmitting negative acknowledgement (NAK) signal requesting the transmitting end to retransmitting at least a portion of message. Therefore, the above combination would have arrived at the claimed subject matter.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE

Serial Number: 08/124,219

-6-

Art Unit: 2611

ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Thanh C. Le *TL*
Aug 7, 1995

Edward F. Urban
EDWARD F. URBAN
PRIMARY EXAMINER
GROUP 2600

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	SERIAL NO. 08/124,219	GROUP/ART UNIT 2611	ATTACHMENT TO PAPER NUMBER 14
NOTICE OF REFERENCES CITED		APPLICANT(S) CAMERON et al		

U.S. PATENT DOCUMENTS							
*		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
*	A	5153582	10/92	Davis	340	311.1	8/7/89
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

FOREIGN PATENT DOCUMENTS									
*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
	L								
	M								
	N								
	O								
	P								
	Q								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
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EXAMINER THANH LE	DATE 8/7/95
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* A copy of this reference is not being furnished with this office action.
(See Manual of Patent Examining Procedure, section 707.05 (a).)



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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKETT NO.
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EXAMINER

ART UNIT	PAPER NUMBER
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15

DATE MAILED:

EXAMINER INTERVIEW SUMMARY RECORD

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

(1) Mr. Lo (3) _____

(2) Examiner Le (4) _____

Date of interview 12/20/95

Type: Telephonic Personal (copy is given to applicant applicant's representative).

Exhibit shown or demonstration conducted: Yes No. If yes, brief description: N/A

Agreement was reached with respect to some or all of the claims in question. was not reached.

Claims discussed: 1 and 3

Identification of prior art discussed: _____

Description of the general nature of what was agreed to if an agreement was reached, or any other comments: applicant suggests the new limitations (i.e., a portion of the message only or displaying a message with error); however, it is subject to be further review.

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

- 1. It is not necessary for applicant to provide a separate record of the substance of the interview.
- Unless the paragraph below has been checked to indicate to the contrary, A FORMAL WRITTEN RESPONSE TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW (e.g., items 1-7 on the reverse side of this form). If a response to the last Office action has already been filed, then applicant is given one month from this interview date to provide a statement of the substance of the interview.
- 2. Since the examiner's interview summary above (including any attachments) reflects a complete response to each of the objections, rejections and requirements that may be present in the last Office action, and since the claims are now allowable, this completed form is considered to fulfill the response requirements of the last Office action. Applicant is not relieved from providing a separate record of the substance of the interview unless box 1 above is also checked.

PTOL-413 (REV. 2-93)

Chalyk
 Examiner's Signature

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Transaction History Date 1996-1-11
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov

PATENT
Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Dennis W. CAMERON et al.)
Serial No.: 08/124,219)
Filed: September 21, 1993)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Group Art Unit: 2611
Examiner: T. Le

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FILED
JAN 11 1996
FBI/DOJ

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PROPOSED AMENDMENT UNDER 37 C.F.R. § 1.116

Pursuant to 37 C.F.R. § 1.116 and in response to the Office
Action dated August 8, 1995, the period for response to which has
been extended to January 11, 1995 (the Federal government being
closed on January 8-10 due to inclement weather) by the concurrent
filing of a two-month extension of time, applicants propose that
this application be amended as follows:

IN THE CLAIMS:

Please cancel claim 2 without prejudice or disclaimer of the
subject matter thereof and amend claims 1, 3, 6, and 9 as follows:

1. (Twice Amended) A mobile unit for transmitting and
receiving radio frequency signals to and from a communications
network comprising:

means for receiving a radio frequency message from the
network;

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cont

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a display for displaying said message;

switch means for allowing a user to selectively request retransmission of [at least portions] a portion of said message from the communications network;

means for transmitting, upon actuation of the switch means, a signal to the communications network requesting retransmission of said [at least portions] portion of said message.

B2
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J. 3. (Amended) The mobile unit of claim [2] 1, further comprising:

means for detecting errors in the received message [messages; and],

said display including means for highlighting [displaying] said errors when the message is displayed on said display.

Claim 3, line 1, replace "2" with --1--.

Claim 6, line 7, replace "the" (first occurrence) with --a--.

Claim 9, line 8, after "retransmit" insert --a portion of--;

and

line 13, after "retransmitting" insert --the portion of--.

REMARKS

Applicants appreciate the courtesies extended by the Examiner during a personal interview on December 20, 1995. During the interview, the Examiner and applicants' representative discussed proposals for overcoming the outstanding rejections. The discussion covered, among other things, the final rejection of claims 1-3, 5-6, and 8-9 under 35 U.S.C. § 103 as being unpatentable over Tsurumi (JAPAN 64-82715) in view of Spragins et

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al. and the final rejection of claims 4 and 7 under 35 U.S.C. § 103 as being unpatentable over Tsurumi in view of Spragins et al. and Iwasaki (JAPAN 1-181241).

In accordance with the interview, applicants propose amending the claims to make patentable distinctions more apparent. Applicants submit that, upon entry of these amendments, the final rejections should be withdrawn and the pending claims allowed.

Independent claim 1, as proposed, defines a mobile unit comprising a unique combination of elements. According to proposed claim 1, the mobile unit includes a display for displaying a received message. Switch means allows a user to selectively request retransmission of a portion of the message from a communications network. Another means transmits, upon actuation of the switch means, a signal to the communications network requesting retransmission of the portion of the message. After viewing the received message displayed on the display, a user can elect whether to request a portion of the message to be retransmitted. For example, if a portion of the message contains an error, but is nonetheless understandable, the user may elect not to request retransmission of the portion containing the error (page 37 of the specification, lines 23-26). Alternatively, if the user is unable to understand the message, the user may elect to request retransmission of the portion containing the error. In this way, the mobile unit of claim 1 maximizes system efficiency in two ways. First, the mobile unit does not automatically request retransmission of a received message when it contains an error. Rather, the user must actuate the switch means to cause

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the mobile unit of claim 1 to request retransmission. Second, the user can elect retransmission of only a portion of a message, rather than the entire message.

The cited references, alone or in combination, do not disclose or suggest the mobile unit of claim 1. Tsurumi, the main reference cited by the Examiner, discloses a paging system in which a base station transmits messages to a pager according to the state of the pager's memory. When a user finishes reading a message stored in the pager, the pager transmits a process confirmation signal to the base station. In response, the base station transmits a new message to be stored in the pager. In this way, messages are transmitted as the user finishes reading them, thereby minimizing the pager's memory capacity.

Tsurumi does not disclose or suggest any structure for requesting retransmission of a received message, much less a portion of a message, as required by claim 1. Tsurumi also does not disclose any structure for allowing a user to selectively request retransmission, as required by claim 1. The Examiner appears to acknowledge the deficiencies of Tsurumi in the final Office Action (page 3, lines 2-5).

Spragins et al. does not overcome Tsurumi's deficiencies. Spragins et al. discloses a technique for requesting retransmission of a message frame. If a received message frame contains an error, a negative acknowledgment signal requesting retransmission is automatically transmitted, regardless of whether the user decides that retransmission is necessary. Thus, under this technique, there is no provision for allowing a user to

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selectively request retransmission of a portion of a received message, as provided by the mobile unit of claim 1.

Accordingly, neither reference discloses or suggests the mobile unit of proposed claim 1 and therefore, upon entry of the proposed amendments, the final rejection of claim 1 should be withdrawn. The rejection of claims 3, 5, and 8 should also be withdrawn at least because of their dependence from claim 1.

In addition, proposed claim 3 contains an additional recitation not disclosed or suggested by the cited references. Specifically, claim 3, as proposed, recites that the display of the mobile unit of claim 1 includes means for highlighting errors in the received message when the message is displayed on the display. The cited references do not in any way disclose or suggest this recitation. Indeed, the cited references appear to teach away by disclosing automatically requesting retransmission of messages containing errors. Thus, upon entry of the proposed amendments, claim 3 should be allowed for this additional reason.

Claim 6 defines a communications network, including means for receiving radio frequency signals from the mobile unit. According to claim 6, the signals indicate that a user desires the network to retransmit a portion of the message to the mobile units. The network also includes means for retransmitting radio frequency signals containing the portion of the message the user desires retransmitted to the mobile unit.

The cited references do not disclose or suggest such a network. For example, the base station of Tsurumi receives an automatically transmitted confirmation signal indicating that a

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- 5 -

user has read a message so that the base station can transmit another message. No disclosure or suggestion is made of retransmitting a portion of a previously transmitted message, much less a portion that a user desires to be retransmitted.

The Spragins et al. reference contains the same deficiency. According to Spragins et al., a base station receives automatically transmitted acknowledgment signals and negative acknowledgment signals. While the negative acknowledgment signals represent automatic requests for message retransmission, they do not in any way indicate a portion of a message that a user desires to be retransmitted. Since the cited references do not disclose or suggest all of the recitations, the rejection of claim 6 should be withdrawn.

Claim 9 defines a method for transmitting messages comprising a combination of steps. The mobile unit receives a request from a user to retransmit a portion of message data. The mobile unit transmits a request transmission signal to the network. The network receives the request retransmission signal and retransmits the portion of the message data.

None of the cited references, alone or in combination, discloses or suggests such a method. As discussed above, neither Tsurumi nor Spragins et al. discloses or suggests requesting retransmission of a portion of a message and retransmitting the portion to the mobile unit. Accordingly, the rejection of claim 9 should be withdrawn.

The rejection of dependent claims 4 and 7, which depend from claim 1, is also improper. In particular, Iwasaki does not

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overcome the above-noted deficiencies of Tsurumi or Spragins et al. That is, Iwasaki does not disclose or suggest any structure for allowing a user to selectively request retransmission of a portion of a received message, as provided by the mobile unit of claim 1. As discussed above, this allows a user to elect whether to request retransmission of a portion of a message. Accordingly, the rejection of dependent claims 4 and 7 should be withdrawn, and these claims should be allowed.

Applicants respectfully request that this Amendment Under 37 C.F.R. § 1.116 be entered by the Examiner, placing claims 1 and 3-9 in condition for allowance. Applicants submit that the proposed amendments do not raise new issues or necessitate the undertaking of any additional search of the art, since all of the elements and their relationships claimed were either earlier claimed or inherent in the claims as examined. Therefore, this Amendment should allow for immediate action by the Examiner.

Finally, applicants submit that the entry of the Amendment would place the application in better form for appeal, should the Examiner dispute the patentability of the pending claims.

In view of the foregoing remarks, applicants request entry of this amendment, reconsideration and withdrawal of the rejections, and timely allowance of the pending claims.

If an extension of time required to timely file this Amendment under 37 C.F.R. § 1.136 is not accounted for above, such extension is hereby requested and the fee for the extension should be charged to our Deposit Account No. 06-0916. If there are any other fees due in connection with the filing of this Amendment not

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- 7 -

accounted for above, such fees should also be charged to our
Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: January 11, 1996

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WASHINGTON, DC 20005
202-406-4000

- 8 -



388 - 116
Ep 2611

PATENT
Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#16
Rose
2-5-96

In re Application of:)	
Dennis CAMERON et al.)	
Serial No.: 08/124,219	)	Group Art Unit: 2611
Filed: September 21, 1993	)	Examiner: T. Le
For: NATIONWIDE COMMUNICATION SYSTEM)	

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for a two month extension of time to respond to the Office Action of August 8, 1995. A fee of \$380.00 is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: January 11, 1996

LAW OFFICES
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WASHINGTON, DC 20005
202-408-4000



8211
#20
PATENT
08/28/96
Rule 1.67a

Attorney Docket No. 03680.008396

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
Dennis CAMERON et al.)	
Serial No.: 08/124,219	)	Group Art Unit: 2611
Filed: September 21, 1993	)	Examiner: T. Le
For: NATIONWIDE COMMUNICATION SYSTEM)	

2-29-96
nc

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

REQUEST FOR EXAMINATION AFTER FINAL
UNDER 37 C.F.R. § 1.129(a)

Applicants hereby request that the above-identified application be examined according to the procedures set forth in 37 C.F.R. § 1.129(a). This application meets the criteria set forth in 37 C.F.R. § 1.129(a) since it has an actual filing date of September 21, 1993 and is a CIP application of an earlier filed application, Serial No. 07/973,918, filed November 12, 1992. Applicants request that the fee of \$750.00, as required by § 1.17(r), be charged to our Deposit Account No. 06-0916.

Applicants hereby request that the Amendment filed January 11, 1996 be entered and considered by the Examiner and that the finality of the Office Action dated August 8, 1995 be withdrawn.

If any additional extensions of time under 37 C.F.R. § 1.136 are required to obtain entry of this Request, such extension is hereby respectfully requested and the fees for such extension should be charged to Deposit Account No. 06-0916. If there are

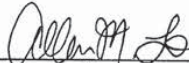
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WASHINGTON, DC 20005
202-408-4000

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any other fees due in connection with the filing of this Request not enclosed herewith, the Commissioner is authorized to charge such fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: 
Allen M. Lo
Reg. No. 37,059

Dated: February 7, 1996

LAW OFFICES
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202-408-4000

- 2 -



82611 PATENT Attorney Docket No. 03680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#19
TLR
2/28/96
ext 1

In re Application of:)
Dennis CAMERON et al.)
Serial No.: 08/124,219)
Filed: September 21, 1993)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Group Art Unit: 2811
Examiner: T. L.

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for a third month extension of time to respond to the Office Action of November 8, 1995. A two-month extension of time was filed on January 11, 1996 with the payment of \$380.00. Applicants request that the fee of \$520.00 (the difference of the \$900 fee for a three month extension of time and the \$380 fee for a two-month fee previously paid), be charged to our Deposit Account No. 06-0916.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

30006 02/15/96 08124219

06-0916 BINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

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202-408-4000

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: February 7, 1996



UNITED STATES DEPARTMENT OF COMMERCE
 Patent and Trademark Office
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
08/124,219	09/21/93	CAMERON	D 03680, 008301

26M2/0208
 FINNEGAN, HENDERSON, FARABOW,
 GARRETT & DUNNER
 1300 I STREET, N.W.
 WASHINGTON, DC 20005

I. E. T EXAMINER	
ART UNIT	PAPER NUMBER
2611	181

DATE MAILED: 02/08/96

Below is a communication from the EXAMINER in charge of this application
 COMMISSIONER OF PATENTS AND TRADEMARKS

ADVISORY ACTION

THE PERIOD FOR RESPONSE:

- a) is extended to run 5 mos or continues to run _____ from the date of the final rejection
- b) expires three months from the date of the final rejection or as of the mailing date of this Advisory Action, whichever is later. In no event however, will the statutory period for the response expire later than six months from the date of the final rejection.

Any extension of time must be obtained by filing a petition under 37 CFR 1.136(a), the proposed response and the appropriate fee. The date on which the response, the petition, and the fee have been filed is the date of the response and also the date for the purposes of determining the period of extension and the corresponding amount of the fee. Any extension fee pursuant to 37 CFR 1.17 will be calculated from the date of the originally set shortened statutory period for response or as set forth in b) above.

Appellant's Brief is due in accordance with 37 CFR 1.192(a).

Applicant's response to the final rejection, filed 1/31/96 has been considered with the following effect, but it is not deemed to place the application in condition for allowance:

1. The proposed amendments to the claim and/or specification will not be entered and the final rejection stands because:
- a. There is no convincing showing under 37 CFR 1.116(b) why the proposed amendment is necessary and was not earlier presented.
 - b. They raise new issues that would require further consideration and/or search. (See Note).
 - c. They raise the issue of new matter. (See Note).
 - d. They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal.
 - e. They present additional claims without cancelling a corresponding number of finally rejected claims.

NOTE: See claim 1, changing "at least a portions" to "a portion";
See claim 3, lines 5-6.
SEE CLAIM 1, "SELECTIVELY".

2. Newly proposed or amended claims _____ would be allowed if submitted in a separately filed amendment cancelling the non-allowable claims.

3. Upon the filing an appeal, the proposed amendment will be entered will not be entered and the status of the claims will be as follows:

Claims allowed: NONE
 Claims objected to: NONE
 Claims rejected: 1-9

However;

Applicant's response has overcome the following rejection(s): _____

4. The affidavit, exhibit or request for reconsideration has been considered but does not overcome the rejection because _____

5. The affidavit or exhibit will not be considered because applicant has not shown good and sufficient reasons why it was not earlier presented.

The proposed drawing correction has has not been approved by the examiner.

Other
T. LE
(703) 305-4819

Reinhard J. Eisenzopf
 Reinhard J. Eisenzopf 2-7-96
 Supervisory Patent Examiner
 Group 260

Art Unit: 2611

Part III DETAILED ACTION

1. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

2. Claim 6 is rejected under 35 U.S.C. § 103 as being unpatentable over Davis in view of "Telecommunications Protocol and Design" by Spragins et al.

As to claim 6, Davis, Figs. 1-2, teaches a communication system for transmitting and receiving radio frequency signals comprising means for transmitting message from the communication network to the mobile unit (13), means for receiving messages from the communication network (19), means for transmitting, upon actuation of the switching means (29-32), a confirmation signal to the communication network which indicates that the user has read the message (28-32), and a display for displaying the message (Fig. 3; Col. 2, line 55 to Col. 3, line 38). More

Art Unit: 2611

specifically, Davis teaches a switching means for allowing a user to acknowledge the received message by depressing the push button switches A-D. Davis differs from the claim 6 that Davis fails to show means for transmitting signals requesting retransmission a portion of message. However, Spragins et al teaches a two-way communication system between two locations wherein the receiving end comprising means for transmitting negative acknowledgement (NAK) signal requesting the transmitting end to retransmitting a portion of message (i.e., every frame which contains error) (pages 280-281; figure 6.4, Nos. frame N, NAK, frame N).

Therefore; it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Davis system by providing the teaching of the Spragins step of transmitting NAK signal for every frame that contains error thereto in order to improve the data transmission in the system (message without error is finally received at the receiving end).

3. Claims 1, 3-5, 7-8 and 10-11 are allowable over the prior art of record.

4. Applicants' arguments filed Nov 12, 1996 have been fully considered but they are not deemed to be persuasive.

With respect to claim 6, applicants state that claim 6 defines a network including means for receiving radio frequency

Art Unit: 2611

signals representing a portion of message that a user desires retransmission as discussed in claim 1. Examiner recognizes that claim 1 has more limitations than claim 6 is since it at least recites a limitation "a switch actuatable to specify a portion of the displayed message" for retransmission. By doing that, user must view the displayed message before determination whether the user desires retransmission or not. Furthermore, claim 6 only recites the limitation "means for receiving radio frequency signals representing a portion of message that a user desires retransmission"; therefore, the Davis acknowledgement system utilizing the teaching Spragins (i.e., requesting for retransmission of frames which contain error) would have provided the claimed limitations as is now claimed in claim 6.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.


Serial Number: 08/124,219

-5-

Art Unit: 2611

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.


Thanh C. Le
Feb 10, 1997

 2-15-97
Reinhard J. Eisenzopf
Supervisory Patent Examiner
Group 2600

Transaction History Date 1996-5-17
 Date information retrieved from USPTO Patent
 Application Information Retrieval (PAIR)
 system records at www.uspto.gov



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/124,219 09/21/93 CAMERON

D 03680, 008301

EXAMINER

L.E. F

ART UNIT PAPER NUMBER

2611

DATE MAILED: 05/17/96

26M2/0517
 FINNEGAN, HENDERSON, FARABOW,
 GARRETT & DUNNEK
 1300 I STREET, N.W.
 WASHINGTON, DC 20005

This is a communication from the examiner in charge of your application.
 COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on 2/7/96 This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), - days from the date of this letter.
 Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

- Claims 1 and 3-9 are pending in the application.
 Of the above, claims _____ are withdrawn from consideration.
- Claims 2 has been cancelled.
- Claims _____ are allowed.
- Claims 1 and 3-9 are rejected.
- Claims _____ are objected to.
- Claims _____ are subject to restriction or election requirement.
- This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
- Formal drawings are required in response to this Office action.
- The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
- The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
- The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
- Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
- Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
- Other

EXAMINER'S ACTION

Art Unit: 2611

Part III DETAILED ACTION

1. Applicant's arguments with respect to claims 1-9 have been considered but are deemed to be moot in view of the new grounds of rejection.

2. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

3. Claims 1, 5-6 and 8-9 are rejected under 35 U.S.C. § 103 as being unpatentable over Davis in view of "Telecommunications Protocol and Design" by Spragins et al.

As to claims 1, 6 and 9, Davis, Figs. 1-2, teaches a communication system for transmitting and receiving radio frequency signals comprising means for transmitting message from the communication network to the mobile unit (13), means for receiving messages from the communication network (19), means for

Art Unit: 2611

transmitting, upon actuation of the switching means (29-32), a confirmation signal to the communication network which indicates that the user has read the message (28-32), and a display for displaying the message (Fig. 3; Col. 2, line 55 to Col. 3, line 38). More specifically, Davis teaches a switching means for allowing a user to acknowledge the received message by depressing the push button switches A-D. Davis differs from the claimed subject matter that Davis fails to show means for transmitting a signal requesting retransmission a portion of message. However, Spragins et al teaches a two-way communication system between two locations wherein the receiving end comprising means for transmitting negative acknowledgement (NAK) signal requesting the transmitting end to retransmitting a portion of message (i.e., frame) (pages 280-281; figure 6.4, Nos. frame N, NAK, frame N). Therefore; it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Davis system by providing the teaching of the Spragins et al steps transmitting NAK signal thereto in order to improve the data transmission (message without error is finally received at the receiving end) in the system.

As to claims 5 and 8, Davis teaches means for transmitting a signal indicating to the network that the user has read the message (see message select controls section in figure 3).

Art Unit: 2611

4. Claim 3 is rejected under 35 U.S.C. § 103 as being unpatentable over Davis in view of "Telecommunications Protocol and Design" by Spragins et al as applied to claims 1, 5-6 and 8-9 above, and further in view of Willard et al..

As to claim 3, the Davis system modified by Spragins teaches everything except for display means including means for highlighting the errors upon detecting errors in the message. However, Willard teaches a two-way paging system having a check character 320 in the information message for detecting errors. Willard further teaches that an error message is present in the display upon detecting errors (Col. 7, line 66 to Col. 3, line 11). Therefore, it would have been obvious to one of ordinary skill in the art to modify the above combination system by providing the teaching of the Willard paging system thereto in order to operate the system more efficiently so that user can easily recognize if the error message is occurred during transmission. Although Willard does not specifically show means for highlighting errors when the message is display, it would have been obvious that any type of error indication can be used for the paging system as long as it provides the visual indication for the user that the errors have been occurred in the received message. Therefore, it would have been obvious to one of ordinary skill in the art to provide means for highlighting errors as claimed in the above combination system in order to

Art Unit: 2611

have more flexibility so that variety of visual indications indicating the error message can be used for the paging system.

5. Claims 4 and 7 are rejected under 35 U.S.C. § 103 as being unpatentable over Davis in view of "Telecommunications Protocol and Design" by Spragins et al as applied to claims 1, 5-6 and 8-9 above, and further in view of Iwasaki.

As to claims 4 and 7, the Davis system modified by Spragins teaches everything except for the receiving end having means for retracting a corrected message from the received signal. However, Iwasaki teaches a system wherein data transmission from the master station to the slave station includes an CRC code and a data message, and the slave station having an error detector circuit for extracting the CRC code included in the data transmission (Figs. 1-2; Abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by providing the Iwasaki data transmission system thereto in order to accurately determine that whether an error is occurred during transmission between two locations in the communication system.

6. Applicants' arguments filed February 7, 1996 have been fully considered but they are not deemed to be persuasive.

Serial Number: 08/124,219

-6-

Art Unit: 2611

As to applicants' remarks file February 7, 1996 regarding the newly added limitation (i.e, a portion of the message, selectively request and highlighting said errors). These limitations have been addressed in paragraph #3 and #4 of this Office Action). Applicants also state that the present invention as disclosed in page 37, line 23-26 teaches that if a portion of the message contains error after viewing the received message, but is nonetheless understandable, the user may elect not to request the retransmission of message. Examiner recognizes that applicant misinterprets the principle that claims are interpreted in the light of the specification. Although these elements (user may elect not to request the retransmission of message) are found as examples or embodiments in the specification, they were not claimed explicitly. Nor were the words that are used in the claims defined in the specification to require these limitations. A reading of the specification provides no evidence to indicate that these limitations must be imported into the claims to give meaning to disputed terms.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Thanh C. Le
May 10, 1996

TL

Reinhard J. Eisenzopf
Reinhard J. Eisenzopf
Supervisory Patent Examiner
Group 260
5-13-96

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO. 08 124,219	GROUP UNIT 2611	ATTACHMENT TO PAPER NUMBER 21		
NOTICE OF REFERENCES CITED				APPLICANT(S) Cameron et al				
U.S. PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE		
A	4803487	2/89	Willard et al	340	825.44			
B								
C								
D								
E								
F								
G								
H								
I								
J								
K								
FOREIGN PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L								
M								
N								
O								
P								
Q								
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)								
R								
S								
T								
U								
EXAMINER THANH LE				DATE 5/10/96				
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)								

Transaction History Date 1996-11-12
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov

#03/C
TLR
12/29/96



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

12-2-96
RE

In re Application of:)
)
Dennis W. CAMERON et al.)
)
Serial No.: 08/124,219) Group Art Unit: 2611
)
Filed: September 21, 1993) Examiner: T. Le
)
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

AMENDMENT

In response to the Office Action dated May 17, 1996, the response to which has
been extended three months by the concurrent filing of a petition for extension of time,
please amend this application as follows:

IN THE CLAIMS:

Please cancel claim 9 without prejudice or disclaimer of the subject matter
thereof, and amend claims 1 and 6 and add new claims 10 and 11 as follows:

1. (Thrice Amended) A mobile unit for transmitting and receiving radio
frequency signals to and from a communications network comprising:
means for receiving a radio frequency message from the network;
a display for displaying said message;
a switch [means for] actuatable to specify a portion of the displayed message for

LAW OFFICES
FINNEGAN, HENDERSON,
FARABOW, GARRETT
& DUNNER, L.L.P.
1300 I STREET, N.W.
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202-408-4000

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cont.

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which a user desires retransmission [allowing a user to selectively request retransmission of a portion of said message] from the communications network;

means for transmitting, only upon actuation of the switch [means], a signal to the communications network requesting retransmission of said specified portion of said message; and

means for receiving said specified portion retransmitted from the communications network and for displaying the received specified portion on the display.

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could.

6. (Thrice Amended) A communications network for transmitting radio frequency signals to a mobile unit and for receiving radio frequency signals from the mobile unit comprising:

means for transmitting radio frequency signals containing a message to the mobile unit;

means for receiving, from the mobile unit, radio frequency signals [from the mobile unit indicating that a user desires the network to retransmit] representing a portion of the message that the user desires retransmission [to the mobile unit];

means for retransmitting radio frequency signals containing the portion of the message to the mobile unit.

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could.

8.
A10. A method for receiving and transmitting messages at a mobile unit, comprising the steps of:

receiving at the mobile unit a radio frequency message;

displaying said message on the mobile unit;

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C3
w/16

receiving an indication of a portion of the displayed message for which a user desires retransmission;

transmitting, only upon receipt of the indication, a signal requesting retransmission of said indicated portion of said message;

receiving a retransmission of said indicated portion; and

displaying the received retransmission of said indicated portion on the mobile unit.

11. The method according to claim 10, further comprising the step of:

detecting errors in the received message; and

wherein the step of displaying comprises the substep of:

highlighting said errors in the message on the mobile unit.

REMARKS

In the Office Action dated May 17, 1996, the Examiner rejected the pending claims over various cited references. In particular, the Examiner rejected claims 1, 5-6, and 8-9 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al.; rejected claim 3 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al. and Willard et al.; and rejected claims 4 and 7 under 35 U.S.C. § 103 as being unpatentable under 35 U.S.C. § 103 over Davis in view of Spragins et al. and Iwasaki.

Applicants have canceled claim 9, amended claims 1 and 6, and added new claims 10 and 11 to more appropriately define the invention. The outstanding rejections should be withdrawn, and the pending claims allowed over the cited

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29

references.

Claim 1, as amended, defines a mobile unit comprising a combination of elements. According to amended claim 1, the mobile unit includes, among other things, a switch actuatable to specify a portion of the displayed message for which a user desires retransmission from the communications network. By providing this switch, the mobile unit of claim 1 maximizes efficiency in two ways. First, the mobile unit does not automatically request retransmission of a received message simply because it contains an error. Rather, the switch must be actuated before any requests for retransmission will be transmitted. Second, retransmission can be requested of only a portion of a message, rather than the entire message.

None of the cited references contains any teachings corresponding to the mobile unit defined by claim 1. For example, no teaching can be found in any of the cited references of an element corresponding to the switch of claim 1. As previously discussed, Tsurumi, the main reference cited by the Examiner, discloses a paging system that allows users to indicate when they have finished reading messages stored in the pager. The pagers transmit process confirmation signals to a base station, which then transmits new messages to be stored in the pager. The purpose of this system is to minimize the pager's memory capacity by replacing read messages with new messages. No teaching can be found in Tsurumi, however, of a switch actuatable to specify a portion of the displayed message for which a user desires retransmission from the communications network.

Similarly, Spragins et al., Willard et al., and Iwasaki do not overcome this

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deficiency. None of these references contain any teachings relating to a switch actuatable to specify a portion of the displayed message. Spragins et al., for example, discloses a system that automatically retransmits a message frame whenever a negative acknowledgment is received. If a received message frame contains an error, a negative acknowledgment signal requesting retransmission is automatically transmitted, regardless of whether the user decides that retransmission is necessary. Thus, under this technique, there is no provision for allowing a user to selectively request retransmission of a portion of a received message, as provided by the mobile unit of claim 1.

Accordingly, none of the references discloses or suggests the mobile unit of claim 1. Therefore, claim 1, and its dependent claims (claims 3-5, 7, and 8), should be allowed over the cited references.

Claim 3 should be allowed for an additional reason. As previously discussed, this claim recites, among other things, that the display of the mobile unit of claim 1 includes means for highlighting errors in the received message when the message is displayed on the display. The cited references do not in any way disclose or suggest this feature. Indeed, the Examiner appears to openly concede this deficiency. (See Office Action, para. 4, where the Examiner acknowledges that Davis, Spragins et al., and Willard et al. do not disclose means for highlighting errors.) Nevertheless, the Examiner insists upon finding this claim obvious without any support.

In doing so, the Examiner has engaged in a clear case of impermissible hindsight. The Examiner cannot find all the elements of claim 3 in any combination of

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the prior art, and thus cannot support his obviousness rejection. Accordingly, the rejection of claim 3 should be withdrawn for this additional reason.

Claim 6 defines a communications network, including means for receiving, from the mobile unit, radio frequency signals representing a portion of the message that a user desires retransmission. As discussed in connection with claim 1, the cited references do not disclose or suggest this feature. Accordingly, claim 6 should be allowed over the cited references.

New claim 10 defines a method for receiving and transmitting messages comprising a combination of steps. These steps recite acts similar to the recitations of the mobile unit defined by claim 1. Again, the references do not contain any disclosure or suggestion of the step of receiving an indication of a portion of the displayed message for which a user desires retransmission. Thus, claim 10, and its dependent claim 11, are allowable. Claim 11 is also allowable for the additional reason that it recites the step of highlighting errors in the message displayed on the mobile unit. As discussed in connection with claim 3, this feature is not disclosed or suggested by the cited references. Thus, claim 11 is allowable for this additional reason.

In view of the foregoing remarks, applicants request reconsideration and withdrawal of the rejections, and the timely allowance of the pending claims. Should the Examiner dispute the patentability of any of the claims, applicants request that the Examiner telephone the undersigned at (202) 408-4398 to discuss any outstanding issues.

If an extension of time required to timely file this Amendment under 37 C.F.R.

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§ 1.136 is not accounted for above, such extension is hereby requested and the fee for the extension should be charged to our Deposit Account No. 06-0916. If there are any other fees due in connection with the filing of this Amendment not accounted for above, such fees should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By:

Allen M. Lo Reg. No. 37,059
6/11

Dated: November 12, 1996

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7



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
Dennis W. CAMERON et al.)	
Serial No.: 08/124,219	)	Group Art Unit: 2611
Filed: September 21, 1993	)	Examiner: T. Le
For: NATIONWIDE COMMUNICATION SYSTEM)	

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Duplicated

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GROUP 2600

AMENDMENT

In response to the Office Action dated May 17, 1996, the response to which has been extended three months by the concurrent filing of a petition for extension of time, please amend this application as follows:

IN THE CLAIMS:

Please cancel claim 9 without prejudice or disclaimer of the subject matter thereof, and amend claims 1 and 6 and add new claims 10 and 11 as follows:

1. (Thrice Amended) A mobile unit for transmitting and receiving radio frequency signals to and from a communications network comprising:

means for receiving a radio frequency message from the network;

a display for displaying said message;

a switch [means for] actuatable to specify a portion of the displayed message for

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which a user desires retransmission [allowing a user to selectively request retransmission of a portion of said message] from the communications network;

means for transmitting, only upon actuation of the switch [means], a signal to the communications network requesting retransmission of said specified portion of said message; and

means for receiving said specified portion retransmitted from the communications network and for displaying the received specified portion on the display.

6. (Thrice Amended) A communications network for transmitting radio frequency signals to a mobile unit and for receiving radio frequency signals from the mobile unit comprising:

means for transmitting radio frequency signals containing a message to the mobile unit;

means for receiving, from the mobile unit, radio frequency signals [from the mobile unit indicating that a user desires the network to retransmit] representing a portion of the message that the user desires retransmission [to the mobile unit];

means for retransmitting radio frequency signals containing the portion of the message to the mobile unit.

--10. A method for receiving and transmitting messages at a mobile unit, comprising the steps of:

receiving at the mobile unit a radio frequency message;

displaying said message on the mobile unit;

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02-408-4000

receiving an indication of a portion of the displayed message for which a user desires retransmission;

transmitting, only upon receipt of the indication, a signal requesting retransmission of said indicated portion of said message;

receiving a retransmission of said indicated portion; and

displaying the received retransmission of said indicated portion on the mobile unit.

11. The method according to claim 10, further comprising the step of:

detecting errors in the received message; and

wherein the step of displaying comprises the substep of:

highlighting said errors in the message on the mobile unit.—

REMARKS

In the Office Action dated May 17, 1996, the Examiner rejected the pending claims over various cited references. In particular, the Examiner rejected claims 1, 5-6, and 8-9 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al.; rejected claim 3 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al. and Willard et al.; and rejected claims 4 and 7 under 35 U.S.C. § 103 as being unpatentable under 35 U.S.C. § 103 over Davis in view of Spragins et al. and Iwasaki.

Applicants have canceled claim 9, amended claims 1 and 6, and added new claims 10 and 11 to more appropriately define the invention. The outstanding rejections should be withdrawn, and the pending claims allowed over the cited

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references.

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None of the cited references contains any teachings corresponding to the mobile unit defined by claim 1. For example, no teaching can be found in any of the cited references of an element corresponding to the switch of claim 1. As previously discussed, Tsurumi, the main reference cited by the Examiner, discloses a paging system that allows users to indicate when they have finished reading messages stored in the pager. The pagers transmit process confirmation signals to a base station, which then transmits new messages to be stored in the pager. The purpose of this system is to minimize the pager's memory capacity by replacing read messages with new messages. No teaching can be found in Tsurumi, however, of a switch actuatable to specify a portion of the displayed message for which a user desires retransmission from the communications network.

Similarly, Spragins et al., Willard et al., and Iwasaki do not overcome this

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Accordingly, none of the references discloses or suggests the mobile unit of claim 1. Therefore, claim 1, and its dependent claims (claims 3-5, 7, and 8), should be allowed over the cited references.

Claim 3 should be allowed for an additional reason. As previously discussed, this claim recites, among other things, that the display of the mobile unit of claim 1 includes means for highlighting errors in the received message when the message is displayed on the display. The cited references do not in any way disclose or suggest this feature. Indeed, the Examiner appears to openly concede this deficiency. (See Office Action, para. 4, where the Examiner acknowledges that Davis, Spragins et al., and Willard et al. do not disclose means for highlighting errors.) Nevertheless, the Examiner insists upon finding this claim obvious without any support.

In doing so, the Examiner has engaged in a clear case of impermissible hindsight. The Examiner cannot find all the elements of claim 3 in any combination of

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Claim 6 defines a communications network, including means for receiving, from the mobile unit, radio frequency signals representing a portion of the message that a user desires retransmission. As discussed in connection with claim 1, the cited references do not disclose or suggest this feature. Accordingly, claim 6 should be allowed over the cited references.

New claim 10 defines a method for receiving and transmitting messages comprising a combination of steps. These steps recite acts similar to the recitations of the mobile unit defined by claim 1. Again, the references do not contain any disclosure or suggestion of the step of receiving an indication of a portion of the displayed message for which a user desires retransmission. Thus, claim 10, and its dependent claim 11, are allowable. Claim 11 is also allowable for the additional reason that it recites the step of highlighting errors in the message displayed on the mobile unit. As discussed in connection with claim 3, this feature is not disclosed or suggested by the cited references. Thus, claim 11 is allowable for this additional reason.

In view of the foregoing remarks, applicants request reconsideration and withdrawal of the rejections, and the timely allowance of the pending claims. Should the Examiner dispute the patentability of any of the claims, applicants request that the Examiner telephone the undersigned at (202) 408-4398 to discuss any outstanding issues.

If an extension of time required to timely file this Amendment under 37 C.F.R.

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§ 1.136 is not accounted for above, such extension is hereby requested and the fee for the extension should be charged to our Deposit Account No. 06-0916. If there are any other fees due in connection with the filing of this Amendment not accounted for above, such fees should also be charged to our Deposit Account.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: *Allen M. Lo* Reg. No. 70857
6/11 Allen M. Lo
Reg. No. 37,059

Dated: November 12, 1996

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FARABOW, GARRETT
& DUNNER, L.L.P.
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202-408-4000



930-117

2111 #02 11/12/96 PATENT 12/8/96

Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
 Dennis W. CAMERON et al.)
)
 Serial No.: 08/124,219) Group Art Unit: 2611
)
 Filed: September 21, 1993) Examiner: T. Le
)
 For: NATIONWIDE COMMUNICATION)
 SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

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GROUP 2600

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for three (3) months extension of time to respond to the Office Action of May 17, 1996, extending the due date to November 17, 1996. A fee of \$930.00 is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: Robert C. Cahill Reg. No. 20557
601 Allen M. Lo
Reg. No. 37,059 260 NJ 11/20/96 08124219
1 117 930.00 CK

Dated: November 12, 1996

LAW OFFICES
FINNEGAN, HENDERSON,
FARABOW, GARRETT
& DUNNER, L.L.P.
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WASHINGTON, DC 20005
202-408-4000



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Dennis W. CAMERON et al.)	
)	
Serial No.: 08/124,219	)	Group Art Unit: 2611
)	
Filed: September 21, 1993	)	Examiner: T. Le
)	
For: NATIONWIDE COMMUNICATION)	
SYSTEM)	

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for three (3) months extension of time to respond to the Office Action of May 17, 1996, extending the due date to November 17, 1996. A fee of \$930.00 is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: *Robert C. Cahill* Reg. No. 70557
for Allen M. Lo
Reg. No. 37,059

Dated: November 12, 1996

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202-408-4000

Transaction History Date 1997-2-20
 Date information retrieved from USPTO Patent
 Application Information Retrieval (PAIR)
 system records at www.uspto.gov



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
---------------	-------------	----------------------	---------------------

087124, 219 09/21/93 CONERSON P 00680, 008301

EXAMINER

265270290
 FINNELLAN, HENRIKSSON, FARANOW,
 GRANOFF & DUNNER
 1300 I STREET, N.W.
 WASHINGTON DC 20005

ART UNIT PAPER NUMBER

24

DATE MAILED: 02/20/97

This is a communication from the examiner in charge of your application.
 COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on 11/12/96 This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), — days from the date of this letter.
 Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

- Claims 1, 3-8 and 10-11 are pending in the application.
 Of the above, claims 2 are withdrawn from consideration.
- Claims 2 and 9 have been cancelled.
- Claims 1, 3-5, 7-8 and 10-11 are allowed.
- Claims 6 is are rejected.
- Claims _____ are objected to.
- Claims _____ are subject to restriction or election requirement.
- This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
- Formal drawings are required in response to this Office action.
- The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
- The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
- The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
- Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
- Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
- Other

EXAMINER'S ACTION

File History Content Report

The following content is missing from the original file history record obtained from the United States Patent and Trademark Office. No additional information is available.

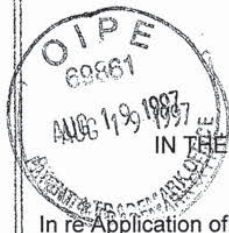
Document Date - 1997-02-20

Document Title - Final Rejection

Page(s) - 2-End

Additional Comments

This page is not part of the official USPTO record. It has been determined that content identified on this document is missing from the original file history record.



#25 2611
TLR
9/24/97
PATENT

Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
 Dennis W. CAMERON et al.)
)
 Serial No.: 08/124,219) Group Art Unit: 2611
)
 Filed: September 21, 1993) Examiner: T. Le
)
 For: NATIONWIDE COMMUNICATION)
 SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PETITION FOR EXTENSION OF TIME

Applicants hereby petition for three (3) months extension of time to respond to the final Office Action of February 20, 1997, extending the due date to August 20, 1997.

A fee of \$930.00 is enclosed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916.

09/09/1997 STHORHTD 00000125 08124219
 01 FC:117 930.00 OP
 02 FC:119 300.00 OP

Respectfully submitted,
 FINNEGAN, HENDERSON, FARABOW,
 GARRETT & DUNNER, L.L.P.

By: Allen M. Lo
 Allen M. Lo
 Reg. No. 37,059

Dated: August 19, 1997

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 & DUNNER, L.L.P.
 1300 I STREET, N.W.
 WASHINGTON, D. C. 20005
 202-408-4000

#206
TLR
9/24/97
PATENT

Attorney Docket No. 3680.0083-01



NOTICE OF APPEAL TO THE
BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of:)
Dennis W. CAMERON et al.)
Serial No.: 08/124,219) Group Art Unit: 2611
Filed: September 21, 1993) Examiner: T. Le
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants hereby appeal to the Board of Appeals from the decision dated
February 20, 1997 of the Examiner finally rejecting claim 6.

The items checked below are appropriate:

1. A Petition for extension of time to respond to the final rejection was filed on _____
_____ extending the period for response to _____
2. A Petition for extension of time to extend the period for response to August 20, 1997 is enclosed together with a fee of \$ 930.00.
3. The Appeal Fee of \$300.00 (or \$150.00 if by small entity)
 is enclosed or is to be charged to Deposit Account No. 06-0916
4. A check for \$ 1,230.00 to cover the above fees is enclosed.

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202-408-4000

To the extent if any further extension of time under 37 C.F.R. § 1.136 is required to obtain entry of this response, such extension is hereby respectfully requested. If there are any fees due under 37 C.F.R. §§ 1.16 or 1.17 which are not enclosed herewith, including any fees required for an extension of time under 37 C.F.R. § 1.136, please charge such fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: Allen M. Lo
Allen M. Lo
Reg. No. 37,059

Dated: August 19, 1997

Post Office Address (to
which correspondence is
to be sent)

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Garrett & Dunner, L.L.P.
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- 2 -



PATENT
Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#2710
TLR
10/27/97

In re Application of:)
)
 Dennis W. CAMERON et al.)
)
 Serial No.: 08/124,219) Group Art Unit: 2611
)
 Filed: September 21, 1993) Examiner: T. Le
)
 For: NATIONWIDE COMMUNICATION)
 SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

AMENDMENT UNDER 37 C.F.R. § 1.116

In response to the Office Action dated February 19, 1996, the response to which has been extended to October 20, 1997 (October 19 being a Sunday), by filing of a petition for extension of time and a Notice of Appeal on August 19, 1997, Applicant proposes to amend this application as follows:

*please enter
10/22/97
TLR*

IN THE CLAIMS:

Please amend claim 6 as follows:

1.8. (Four Times Amended) A communications network for transmitting radio frequency signals to a mobile unit and for receiving radio frequency signals from the mobile unit, the mobile unit having a display and a switch actuatable to specify a portion of a displayed message for which a user desires retransmission after viewing the

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SL

1/ would

displayed message transmitted from the communications network, the network

comprising:

means for transmitting radio frequency signals containing a message to the mobile unit;

means for receiving, from the mobile unit, radio frequency signals representing a portion of the message that the user desires retransmission;

means for retransmitting radio frequency signals containing the portion of the message to the mobile unit.

REMARKS

In the Office Action, the Examiner rejected claim 6 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al.

In a telephone conference with Applicant's representative on October 16, 1997, the Examiner indicated that the rejection could be overcome by amending claim 6 as above. Applicants would like to thank the Examiner for the courtesy he extended in the telephone conference and have amended claim 6 to place it in condition for immediate allowance.

In view of the foregoing remarks, Applicants request reconsideration and withdrawal of the rejections, and the timely allowance of the pending claim.

LAW OFFICES
EGAN, HENDERSON,
RABOW, GARRETT
& DUNNER, L.L.P.
800 1 STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

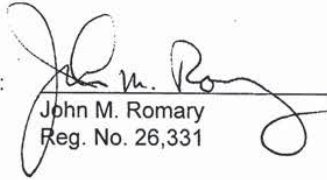
51

To the extent any extension of time under 37 C.F.R. 1.136 is required to obtain entry of this response, such extension is hereby requested. If there are any fees due under 37 C.F.R. 1.16 or 1.17 which are not enclosed, including any fees required for an extension of time under 37 C.F.R. 1.136, please charge those fees to our Deposit Account No. 06-916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By:


John M. Romary
Reg. No. 26,331

Dated: October 7, 1997

LAW OFFICES
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FARABOW, GARRETT
& DUNNER, L.L.P.
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Washington, DC 20005-3315

GROUP 2600

Telephone
(202) 408-4000

Facsimile
(202) 408-4400

FACSIMILE TRANSMITTAL

TO: Mr. Thanh Le
Firm: U S P T O **Phone Number:** 703-305-4819
Fax Number: 703-305-9508 **Date:** October 20, 1997
Subject: 08/124,219
3680.0083-01

FROM:
Name: Anthony Dreux **Phone Number:** 202-406-4152
Fax # Verified by: _____ **# Pages (inclusive):** 4
Confirmation Copy to Follow: No

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GROUP 2600

PATENT

Attorney Docket No. 3680.0083-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
 Dennis W. CAMERON et al.)
)
 Serial No.: 08/124,219) Group Art Unit: 2611
)
 Filed: September 21, 1993) Examiner: T. Le
)
 For: NATIONWIDE COMMUNICATION)
 SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Duplicate copy

AMENDMENT UNDER 37 C.F.R. § 1.116

In response to the Office Action dated February 19, 1996, the response to which has been extended to October 20, 1997 (October 19 being a Sunday), by filing of a petition for extension of time and a Notice of Appeal on August 19, 1997, Applicant proposes to amend this application as follows:

IN THE CLAIMS:

Please amend claim 6 as follows:

6: (Four Times Amended) A communications network for transmitting radio frequency signals to a mobile unit and for receiving radio frequency signals from the mobile unit, the mobile unit having a display and a switch actuatable to specify a portion of a displayed message for which a user desires retransmission after viewing the

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FARABOW, CARRETT
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displayed message transmitted from the communications network, the network comprising:

means for transmitting radio frequency signals containing a message to the mobile unit;

means for receiving, from the mobile unit, radio frequency signals representing a portion of the message that the user desires retransmission;

means for retransmitting radio frequency signals containing the portion of the message to the mobile unit.

REMARKS

In the Office Action, the Examiner rejected claim 6 under 35 U.S.C. § 103 as being unpatentable over Davis in view of Spragins et al.

In a telephone conference with Applicant's representative on October 16, 1997, the Examiner indicated that the rejection could be overcome by amending claim 6 as above. Applicants would like to thank the Examiner for the courtesy he extended in the telephone conference and have amended claim 6 to place it in condition for immediate allowance.

In view of the foregoing remarks, Applicants request reconsideration and withdrawal of the rejections, and the timely allowance of the pending claim.

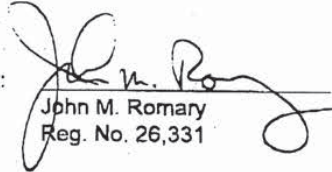
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To the extent any extension of time under 37 C.F.R. 1.136 is required to obtain entry of this response, such extension is hereby requested. If there are any fees due under 37 C.F.R. 1.16 or 1.17 which are not enclosed, including any fees required for an extension of time under 37 C.F.R. 1.136, please charge those fees to our Deposit Account No. 06-916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By:


John M. Romary
Reg. No. 26,331

Dated: October 17, 1997

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WASHINGTON, DC 20005
202.408-4000



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
--------------------	-------------	-----------------------	---------------------

08/124,219 09/21/93 CAMERON

D 03680, 008301
EXAMINER

26M1/1028

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER
1300 I STREET, N.W.
WASHINGTON DC 20005

ART UNIT E, T PAPER NUMBER

28

DATE MAILED 2611

10/28/97

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

NOTICE OF ALLOWABILITY

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 and Issue Fee Due or other appropriate communication will be mailed in due course.

- This communication is responsive to amendment filed 10/17/97
- The allowed claim(s) is/are 1, 3-8 and 10-11
- The drawings filed on _____ are acceptable.
- Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - All Some* None of the CERTIFIED copies of the priority documents have been
 - received.
 - received in Application No. (Series Code/Serrial Number) _____
 - received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

- Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- Applicant MUST submit NEW FORMAL DRAWINGS
 - because the originally filed drawings were declared by applicant to be informal.
 - including changes required by the Notice of Draftperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. 7
 - including changes required by the proposed drawing correction filed on 11/1/94, which has been approved by the examiner.
 - including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftperson.

- Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s) _____
- Notice of Draftperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152
- Interview Summary, PTO-413
- Examiner's Amendment/Comment
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Examiner's Statement of Reasons for Allowance

T. LE (703) 305-4819

Serial Number: 08/124,219

Page 2


Art Unit: 2611


1. The following is an examiner's statement of reasons for allowance:

As to claims 1, 6 and 10, the prior art of record fails to show an RF network comprising means for transmitting signals to a mobile, means for receiving signals representing a portion of message that user desires retransmission and means for retransmitting signal representing the portion of message wherein the mobile unit comprises a display and a switch actuatable to specify a portion of a display message for which user desires retransmission after viewing the displayed message transmitted from the network.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Le whose telephone number is (703) 305-4819.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.


Thanh C. Le
Oct 23, 1997


Reinhard J. Eisenzopf 10-25-97
Supervisory Patent Examiner
Group 2600



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: Box ISSUE FEE
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Washington, D.C. 20231

**NOTICE OF ALLOWANCE
AND ISSUE FEE DUE**

26M1/1028

FINNEGAN, HENDERSON, FARABUM,
GARRETT & DUNNER

1300 I STREET, N.W.

WASHINGTON, D.C. 20004

- Note attached communication from the Examiner.
 This notice is issued in view of applicant's communication filed

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
097124, 219	09/21/93	009	LE, T	2611 10/28/97

First Named Applicant CAMERON, DENNIS W.

TITLE OF INVENTION
NATIONWIDE COMMUNICATION SYSTEM

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2 03680-008301	455-038.100	163	UTILITY	NO	\$1320.00	01/28/98

THE APPLICATION IDENTIFIES ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE 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.

HOW TO RESPOND 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 changed, pay twice the amount of the FEE DUE shown above and notify the patent and Trademark Office of the change in status, or
- B. If the Status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, pay of 1/2 the FEE DUE shown above.

II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.

III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communication prior to issuance to Box ISSUE FEE unless advised to contrary.

IMPORTANT REMINDER: 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—ISSUE FEE TRANSMITTAL

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE. Blocks 2 through 6 should be completed where appropriate. All further correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to addressee entered in Block 1 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate "FEE ADDRESS" for maintenance fee notifications with the payment of Issue Fee or thereafter. See reverse for Certificate of Mailing.

<p>1. CORRESPONDENCE ADDRESS</p> <p align="center">26M1/1028</p> <p>FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER 1300 I STREET, N.W. WASHINGTON DC 20005</p>	<p>2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)</p> <p>INVENTOR'S NAME _____</p> <p>Street Address _____</p> <p>City, State and ZIP Code _____</p> <p>CO-INVENTOR'S NAME _____</p> <p>Street Address _____</p> <p>City, State and ZIP Code _____</p> <p><input type="checkbox"/> Check if additional changes are on reverse side</p>
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SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
First Named Applicant	08/124,219	09/21/93	009 LE, T	2611 10/28/97

TITLE OF INVENTION: CAMERON, DENNIS W.
NATIONWIDE COMMUNICATION SYSTEM

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	03600.000301	455-038.100	T63 UTILITY	NO	\$1320.00	01/28/98

<p>3. Correspondence address change (Complete only if there is a change)</p>	<p>4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.</p> <p>1. <u>Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.</u></p> <p>2. _____</p> <p>3. _____</p>
--	--

DO NOT USE THIS SPACE

5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)	
<p>(1) NAME OF ASSIGNEE: <u>MOBILE TELECOMMUNICATION TECHNOLOGIES</u></p> <p>(2) ADDRESS: (CITY & STATE OR COUNTRY) <u>Jackson, MS</u></p> <p><input type="checkbox"/> This application is NOT assigned.</p> <p><input checked="" type="checkbox"/> Assignment previously submitted to the Patent and Trademark Office.</p> <p><input type="checkbox"/> Assignment is being submitted under separate cover. Assignments should be directed to Box ASSIGNMENTS.</p> <p><small>PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.</small></p>	<p>5a. The following fees are enclosed:</p> <p><input checked="" type="checkbox"/> Issue Fee <input checked="" type="checkbox"/> Advance Order - # of Copies <u>10</u></p> <p>5b. The following fees should be charged to:</p> <p>DEPOSIT ACCOUNT NUMBER <u>06-0916</u></p> <p>(ENCLOSE PART C)</p> <p><input type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____</p> <p><input checked="" type="checkbox"/> Any Deficiencies in Enclosed Fees</p> <p>The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above.</p> <p>(Authorized Signatures) _____ (Date) <u>11/22/97</u></p> <p><u>Robert A. ...</u></p> <p><small>NOTE: The Issue Fee 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 Patent and Trademark Office.</small></p>

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PTOL-85B (REV.12-93)(0651-0033)

Transaction History Date 1997-12-22
 Date information retrieved from USPTO Patent
 Application Information Retrieval (PAIR)
 system records at www.uspto.gov

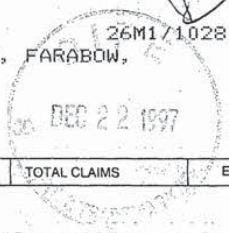
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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER 1300 I STREET, N.W. WASHINGTON DC 20005		INVENTOR'S NAME	
		Street Address	
		City, State and ZIP Code	
		CO-INVENTOR'S NAME	
		Street Address	
		City, State and ZIP Code	
		<input type="checkbox"/> Check if additional changes are on reverse side	



SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/124,219	09/21/93	009	LE, T	2611 10/28/97

First Named Applicant: CAMERON, DENNIS W.
 TITLE OF INVENTION: NATIONWIDE COMMUNICATION SYSTEM

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	03680-008301	455-038-100	T63	UTILITY	NO	\$1320.00 01/28/98

01/09/1998 RJOHNSON 00000129 08124219
 01 FC:142 1320.00 DP
 02 FC:561 30.00 DP

3. Correspondence address change (Complete only if there is a change)	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.
	1. Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 2. _____ 3. _____

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5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)	
(1) NAME OF ASSIGNEE: MOBILE TELECOMMUNICATION TECHNOLOGIES	5a. The following fees are enclosed: <input checked="" type="checkbox"/> Issue Fee <input checked="" type="checkbox"/> Advance Order - # of Copies 10
(2) ADDRESS: (CITY & STATE OR COUNTRY) Jackson, MS	5b. The following fees should be charged to: DEPOSIT ACCOUNT NUMBER 06-0916 (ENCLOSE PART C) <input type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____ <input checked="" type="checkbox"/> Any Deficiencies in Enclosed Fees

A. This application is NOT assigned.
 Assignment previously submitted to the Patent and Trademark Office.
 Assignment is being submitted under separate cover. Assignments should be directed to Box ASSIGNMENTS.
 PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above.
 (Authorized Signature) Robert A. Keen (Date) Dec 11 1997
 Robert A. Keen, Reg. No. 57 121 22 197
 NOTE: The Issue Fee 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 Patent and Trademark Office.

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Transaction History Date 1997-12-22
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Patent Office

PATENT
Attorney Docket No. 3680.0083-01

DEC 22 1997
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

07

In re Application of:)
Dennis W. CAMERON et al.)
Serial No.: 08/124,219) Group Art Unit: 2611
Filed: September 21, 1993) Examiner: T. Le
For: NATIONWIDE COMMUNICATION)
SYSTEM)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

SUBMISSION OF FORMAL DRAWINGS

Subject to the approval of the Examiner, please replace the informal drawings with the formal drawings filed herewith. If the formal drawings for any reason are not in full compliance with the pertinent statutes and regulations, please so advise the undersigned.

If any fees are necessary for the submission of these formal drawings, please charge our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: Robert A. Cahill
Robert A. Cahill
Reg. No. 20,557

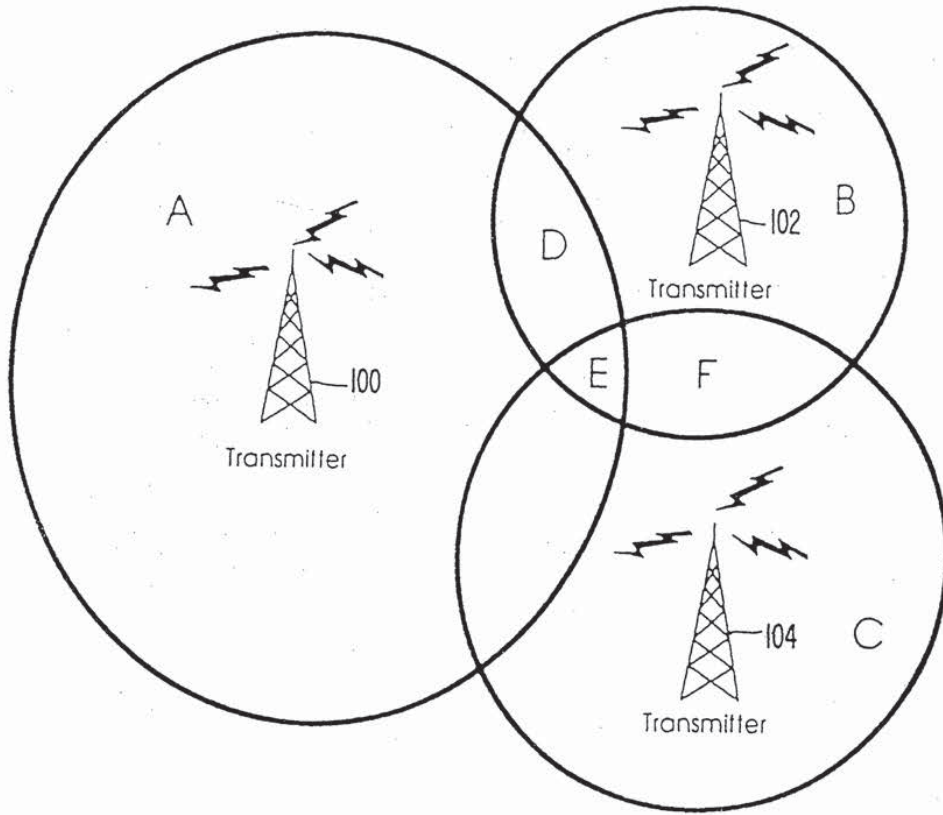
Dated: December 22, 1997

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FARABOW, GARRETT
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, D. C. 20005
202-408-4000

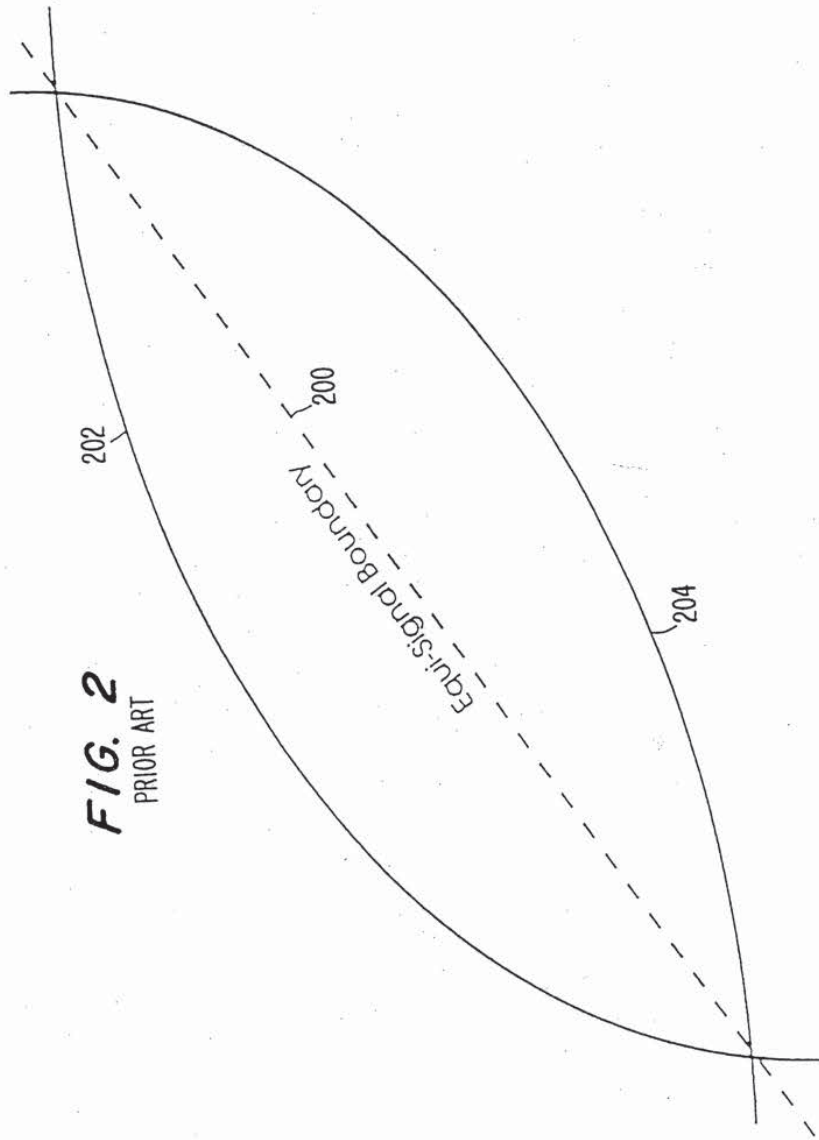
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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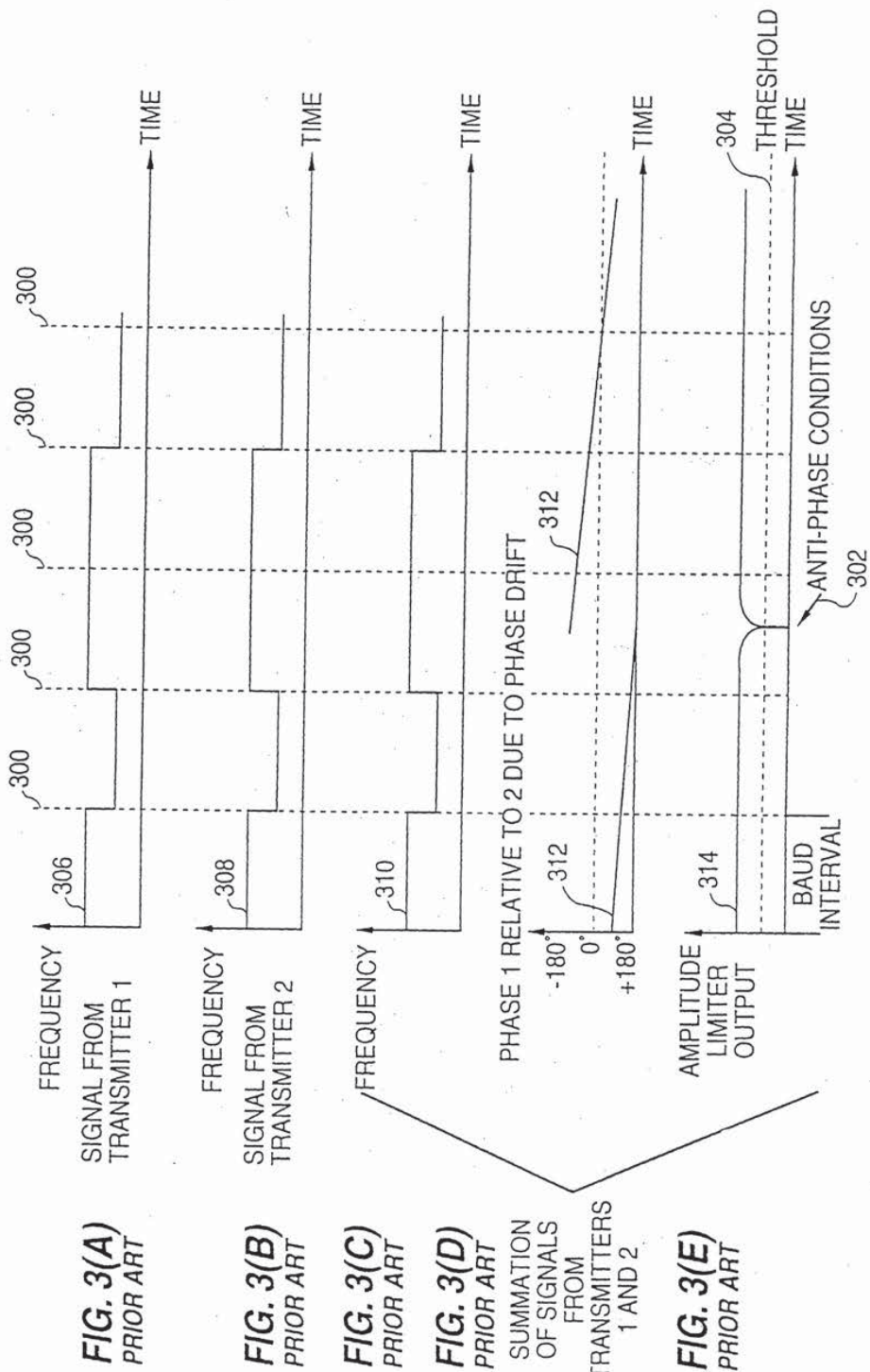
FIG. 1
PRIOR ART



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

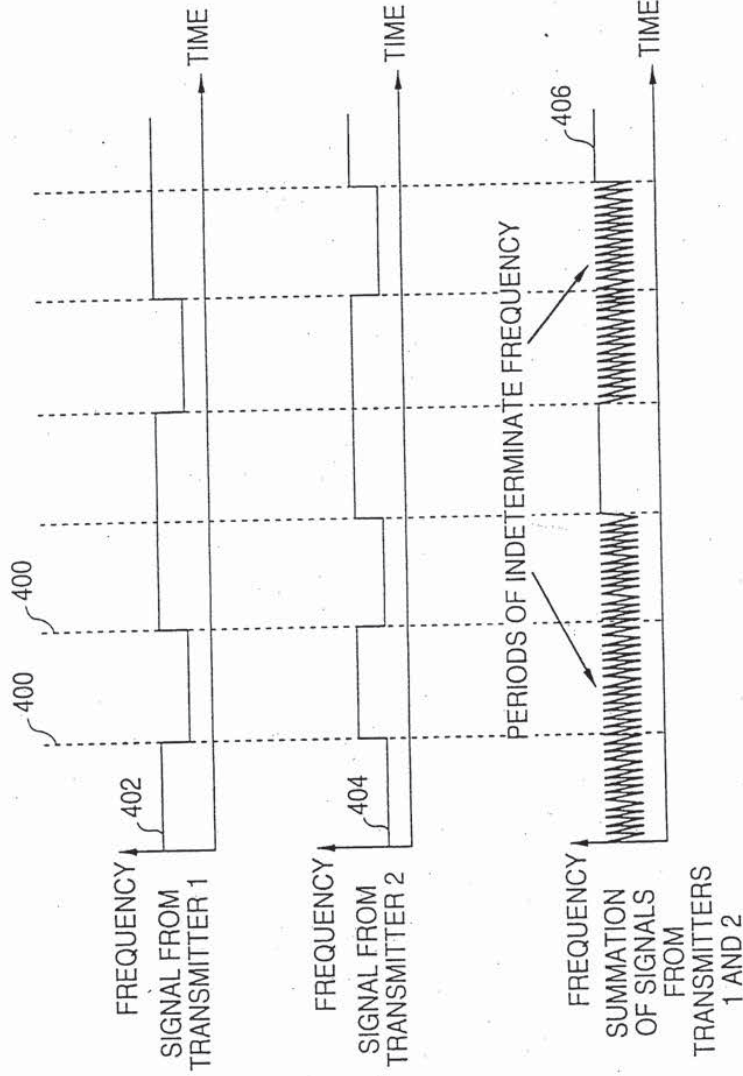


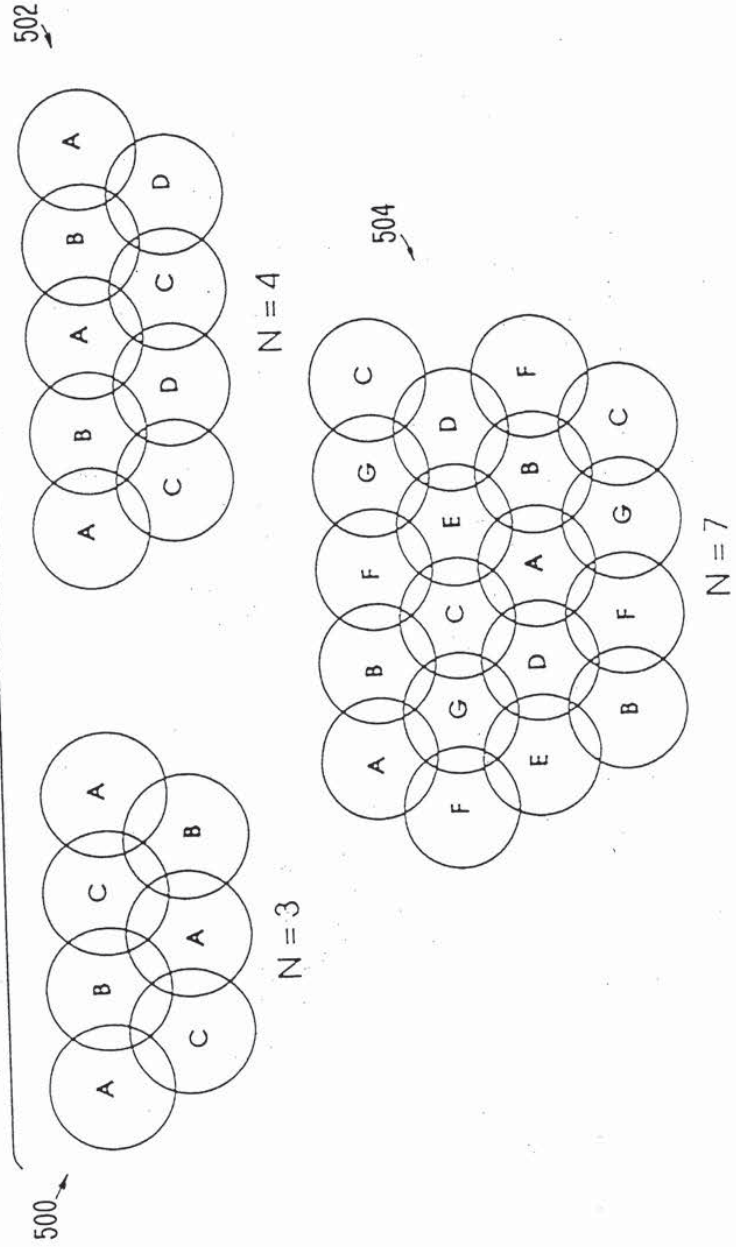
FIG. 4(A)
PRIOR ART

FIG. 4(B)
PRIOR ART

FIG. 4(C)
PRIOR ART

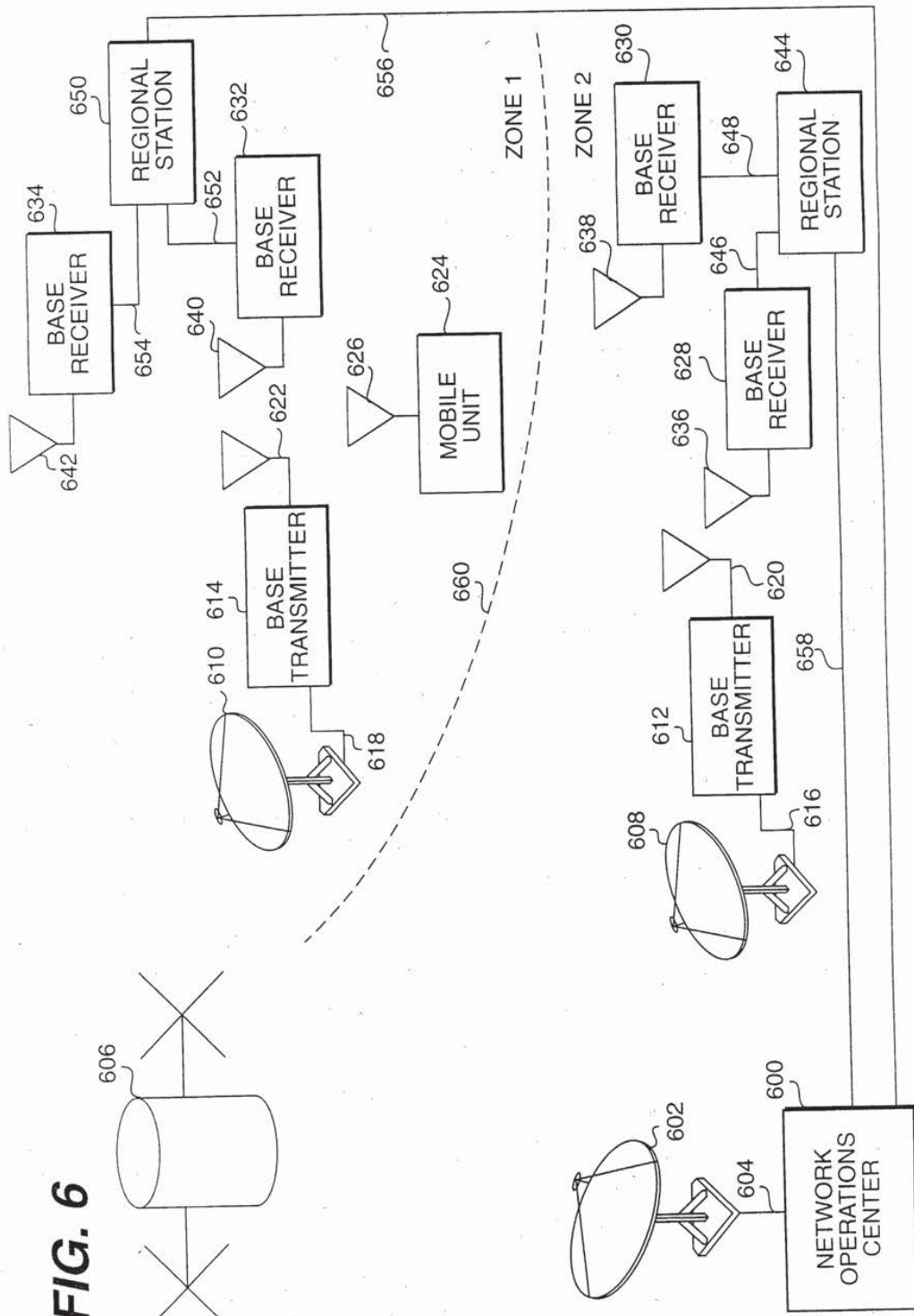
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 5 PRIOR ART



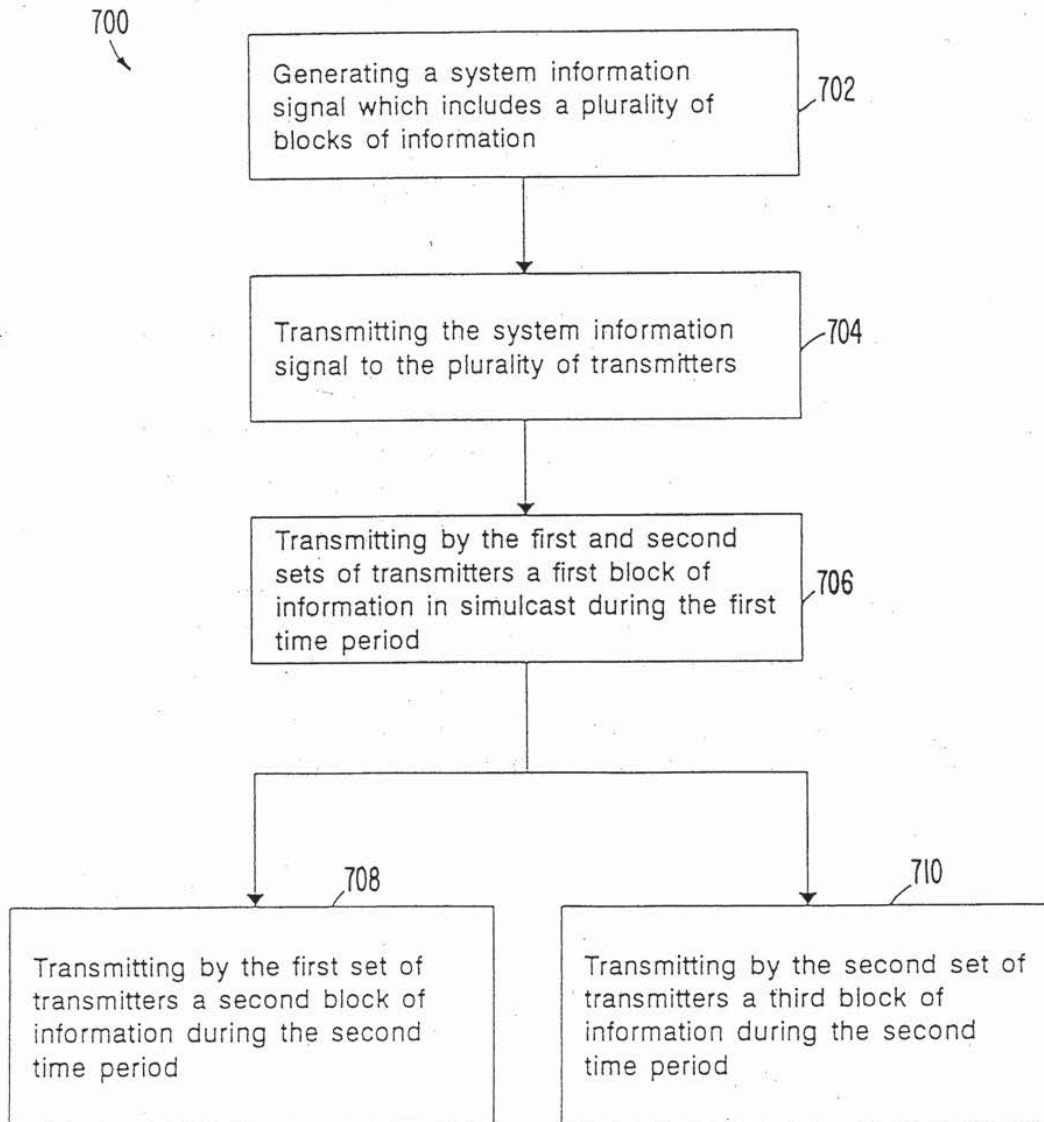
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 6



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

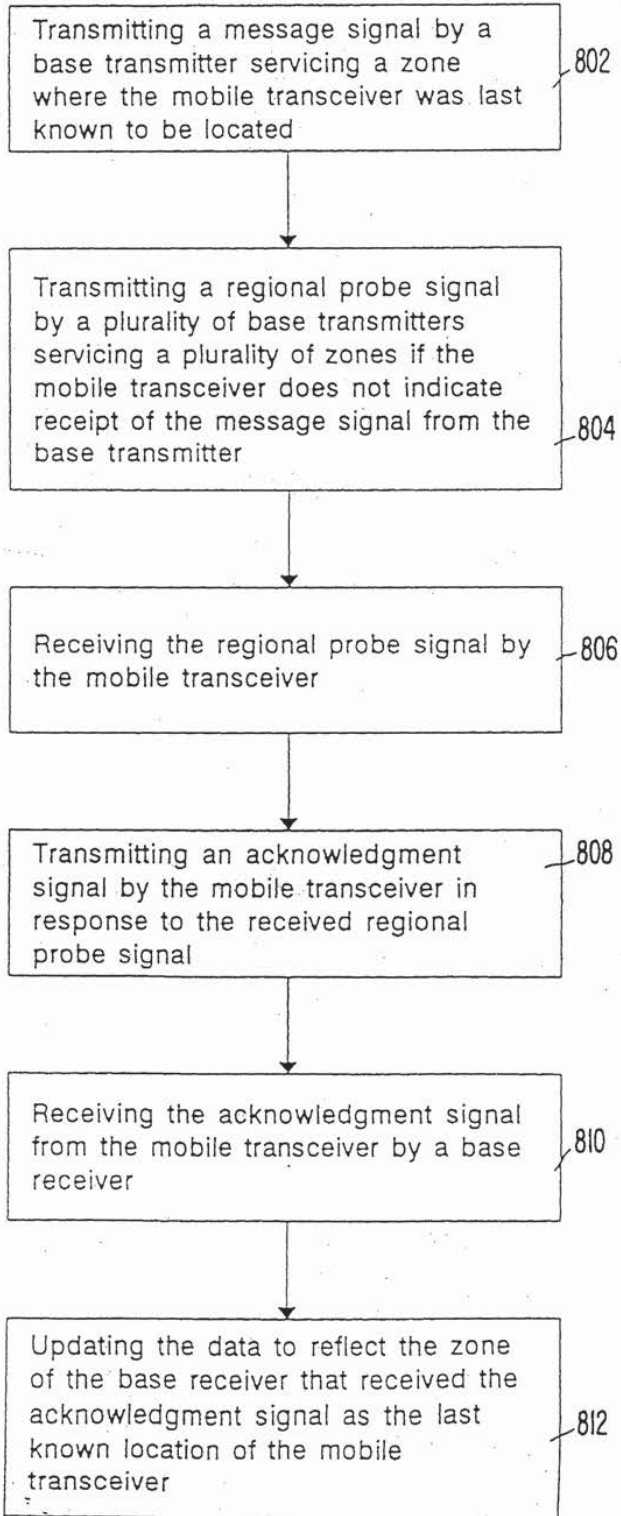
FIG. 7



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 8

800 ↘



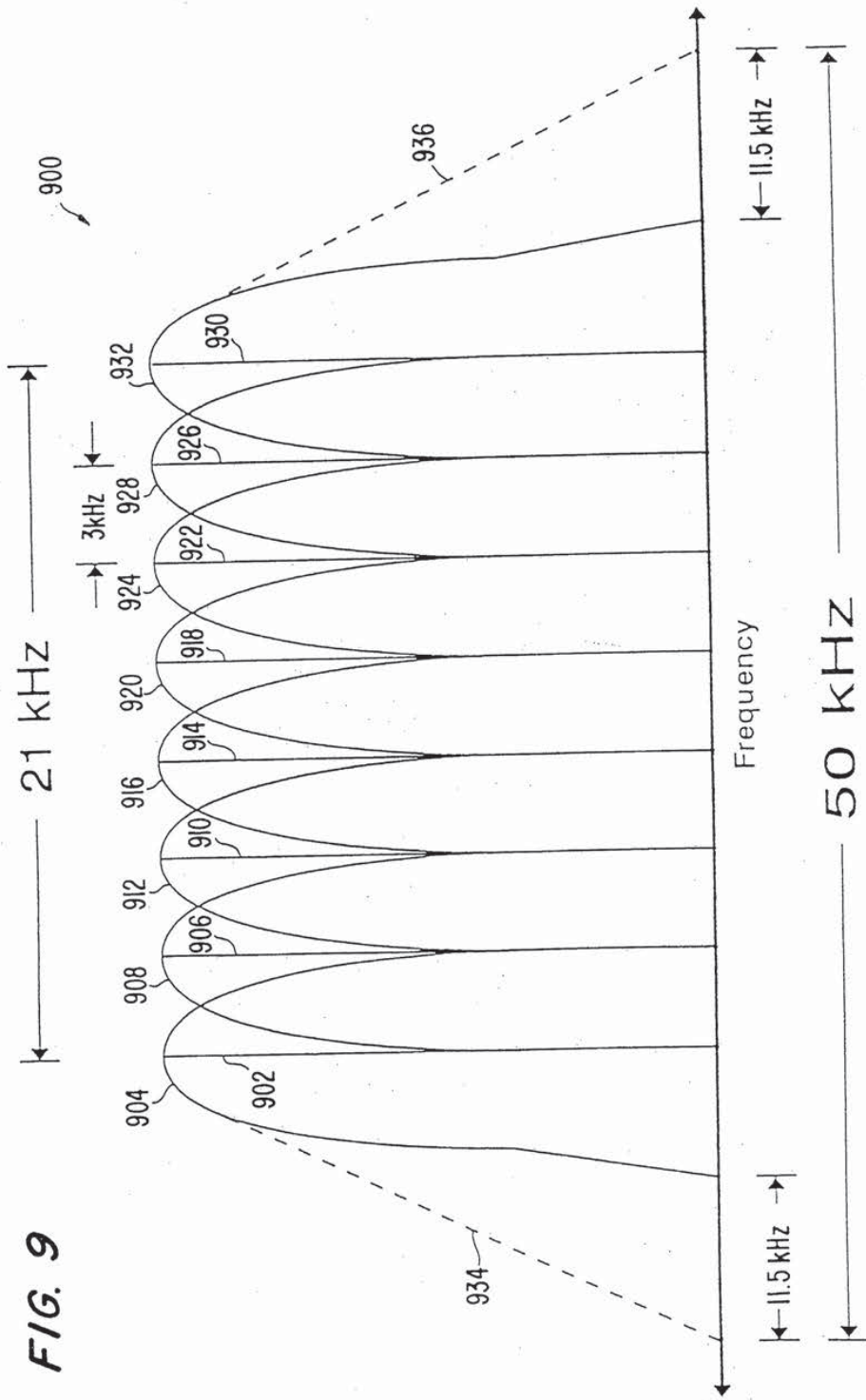
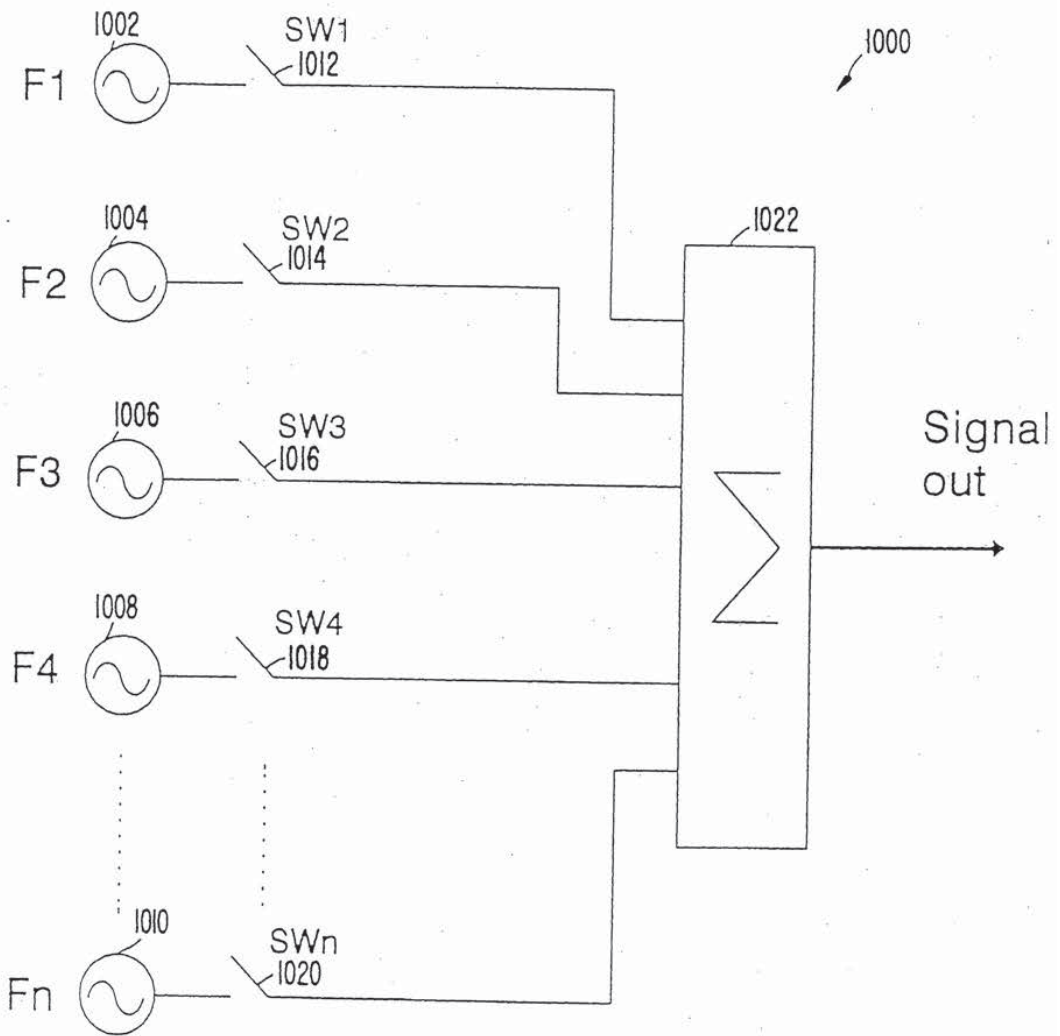


FIG. 9

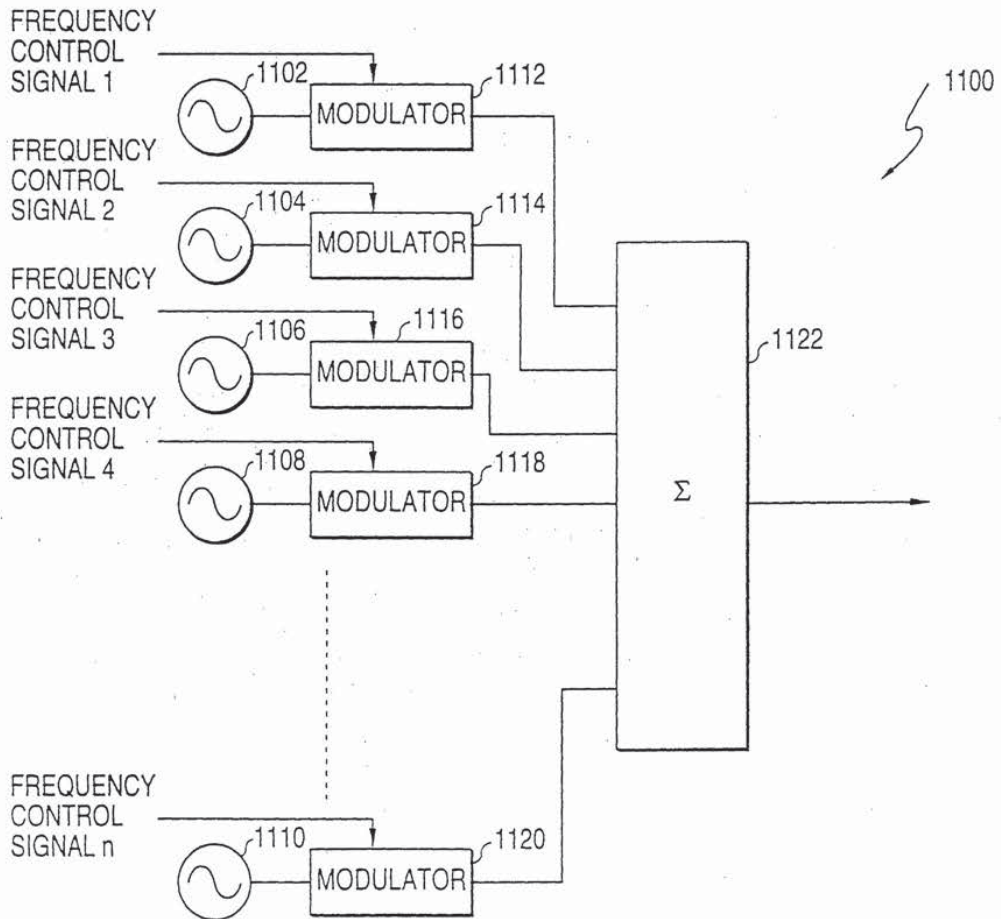
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
ARTSMAN		

FIG. 10



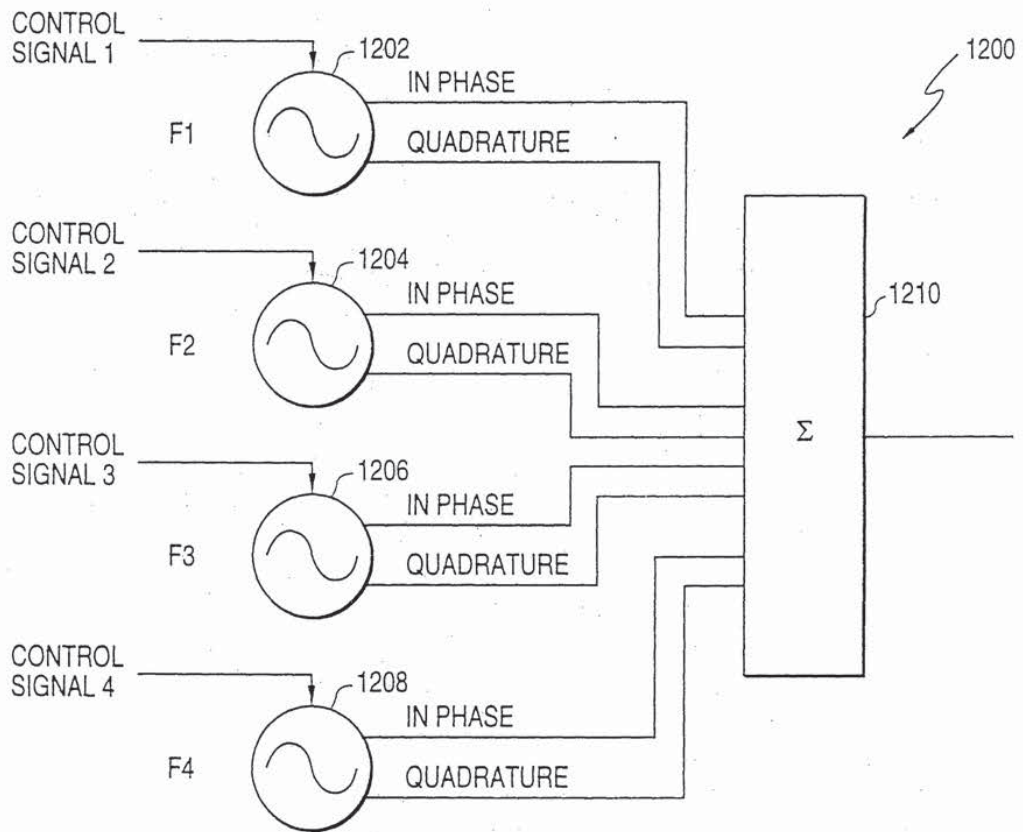
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 11



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 12

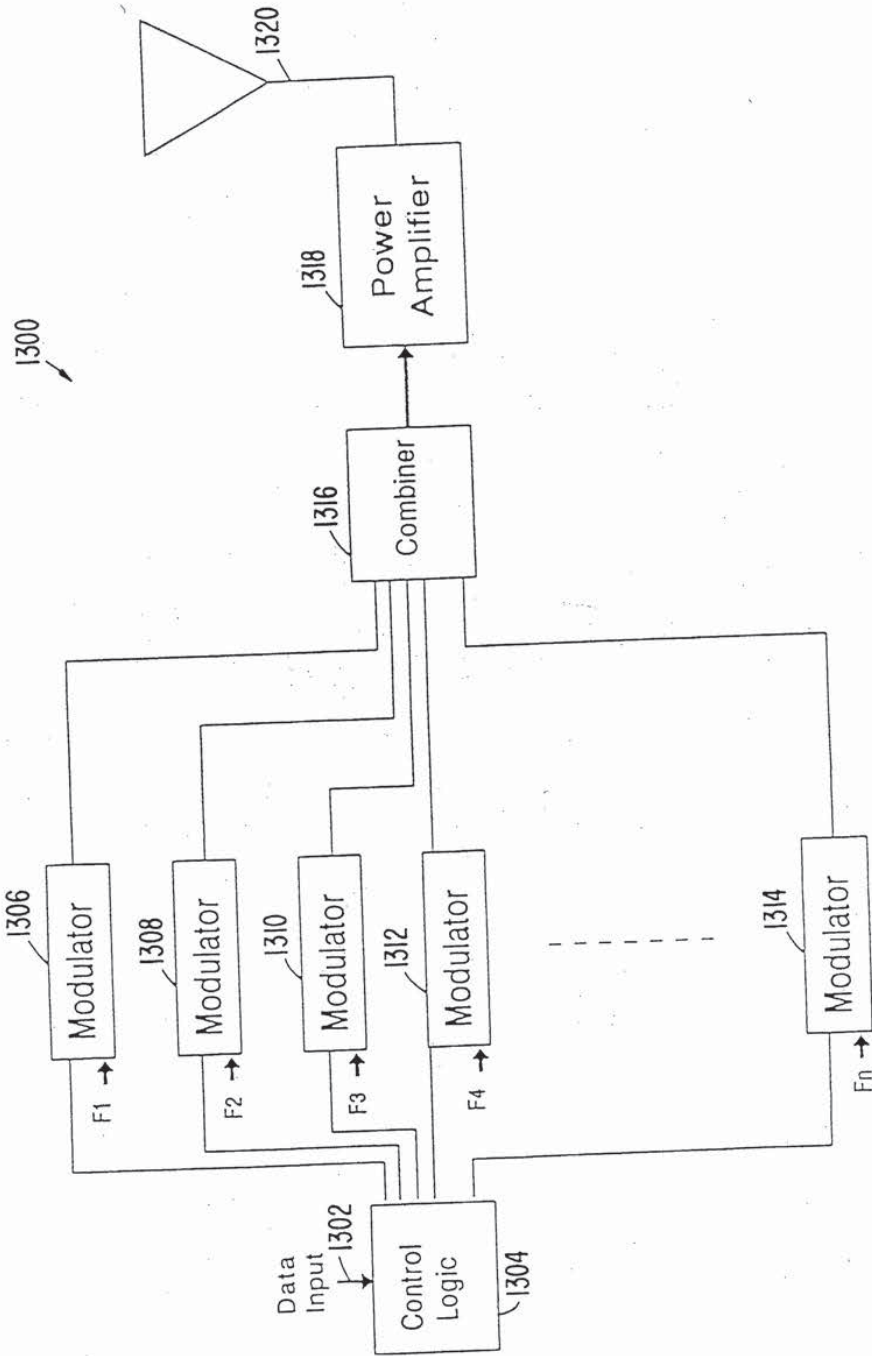


FOUR CARRIER QUADRATURE MODULATOR

PROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
AFTSMAN		

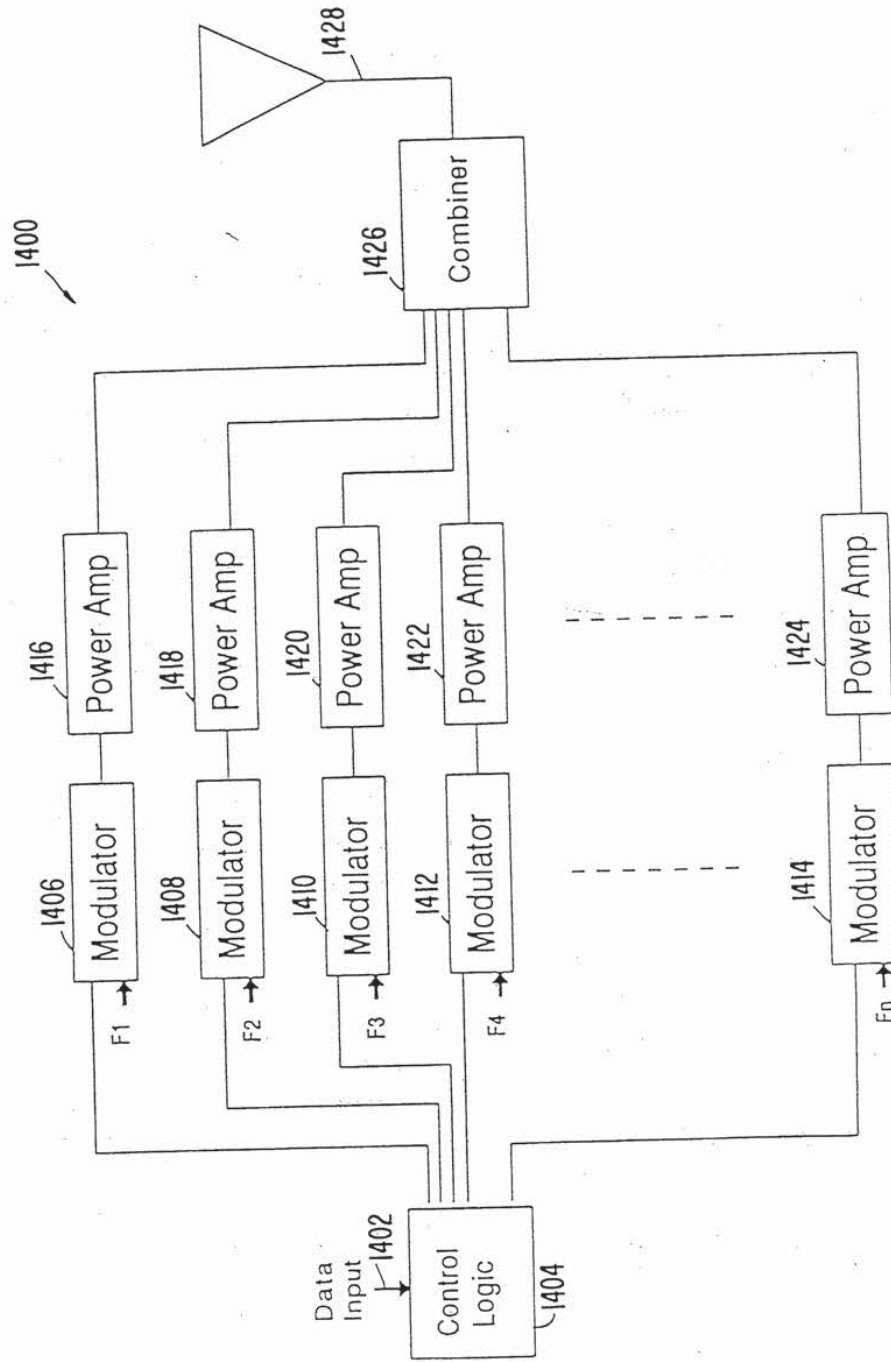
Base Transmitter

FIG. 13



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

FIG. 14 Base Transmitter



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Mobile Transceiver

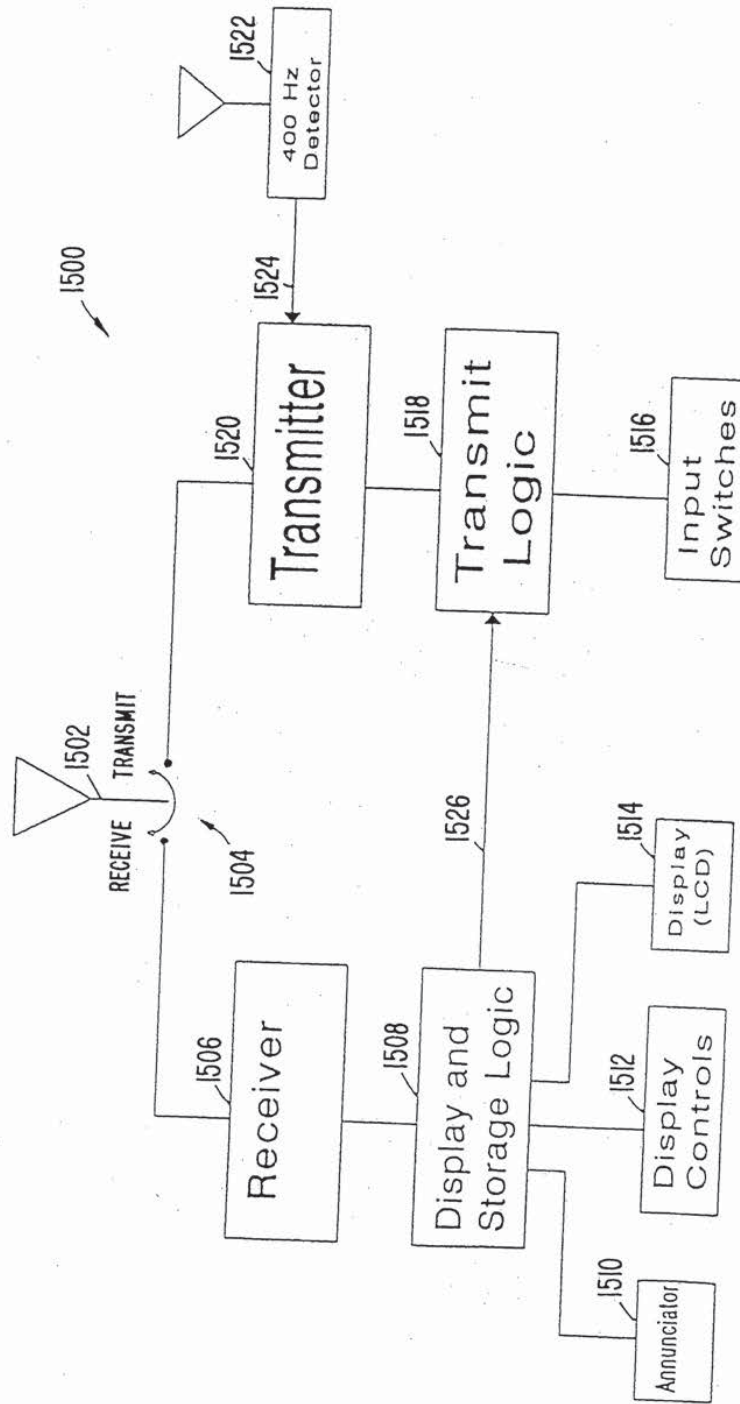


FIG. 15

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

1600

1604

1606

1622

WILL YOU BE HOME FOR DINNER?

1620

YES NO ? UNUSED UNUSED UNUSED

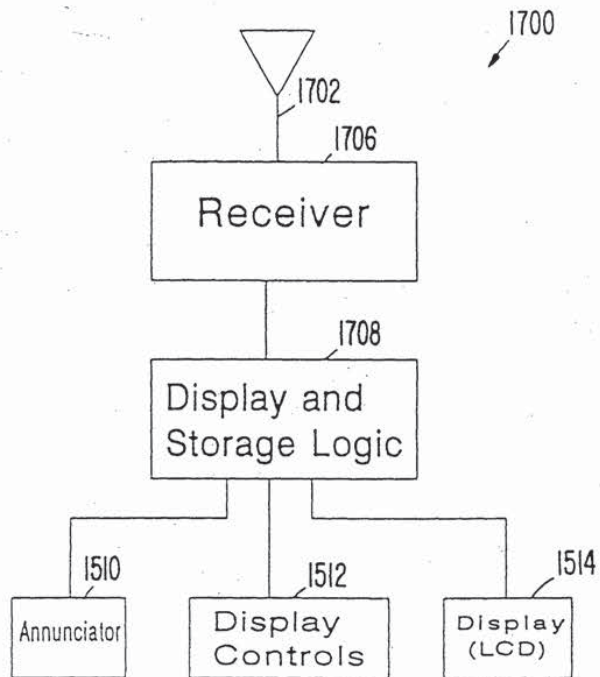
1608 1610 1612 1614 1616 1618

FIG. 16

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 17

Mobile Receiver



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 18(A)

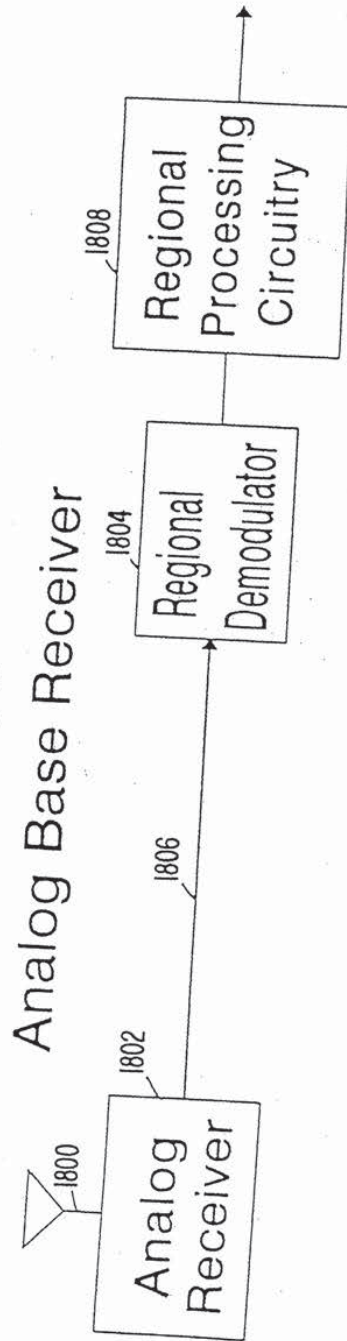
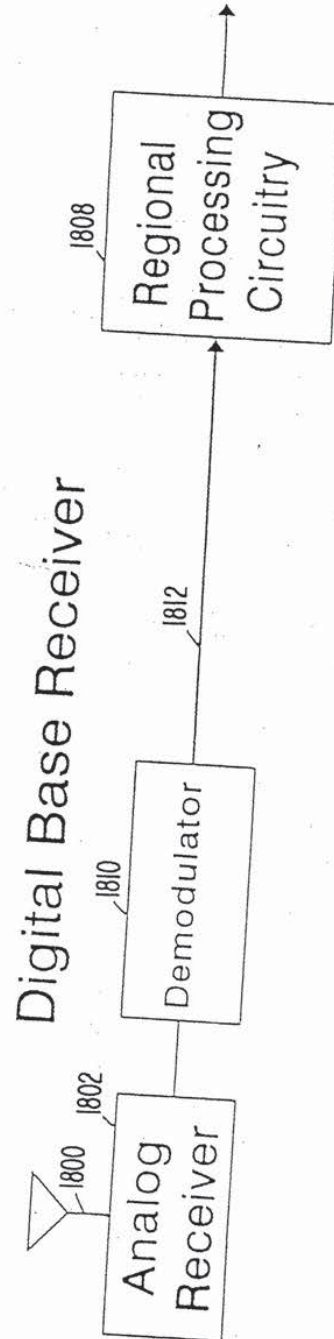
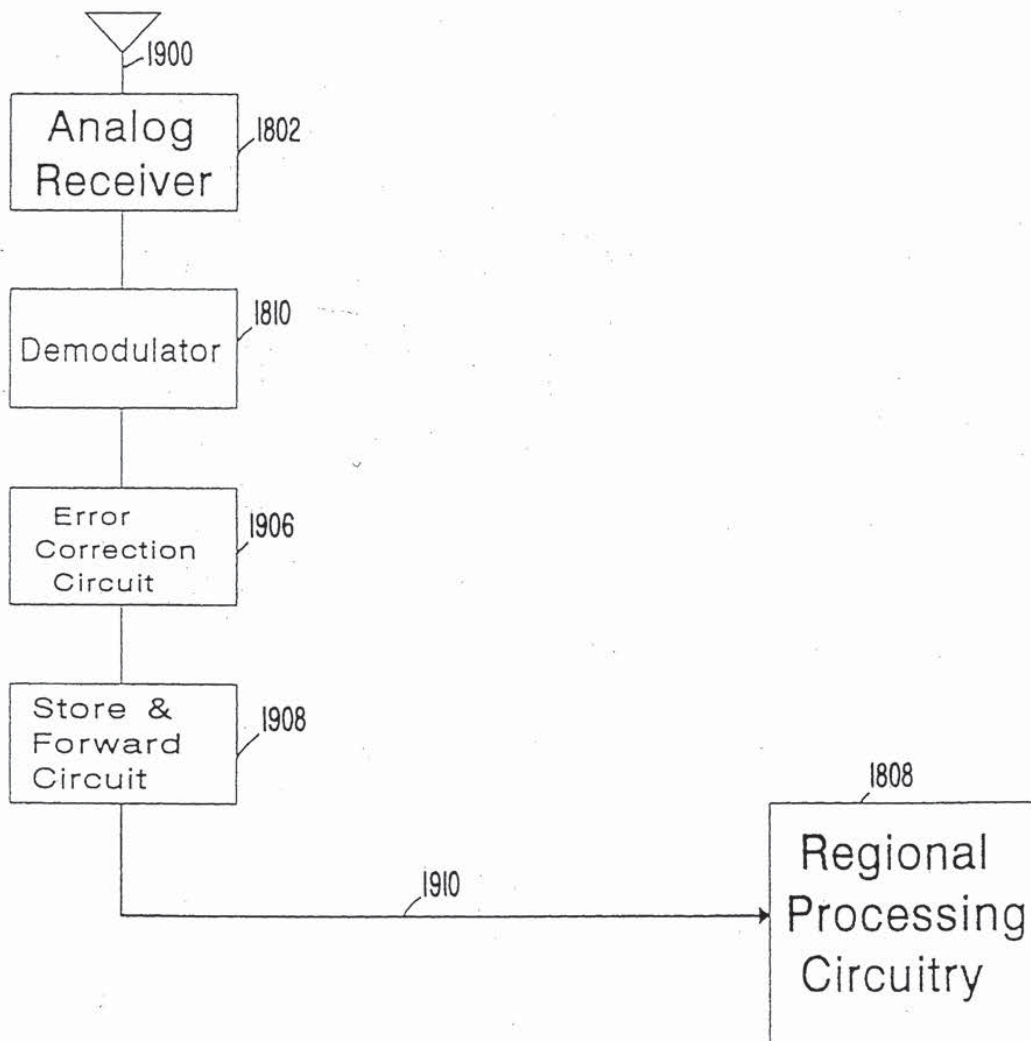


FIG. 18(B)



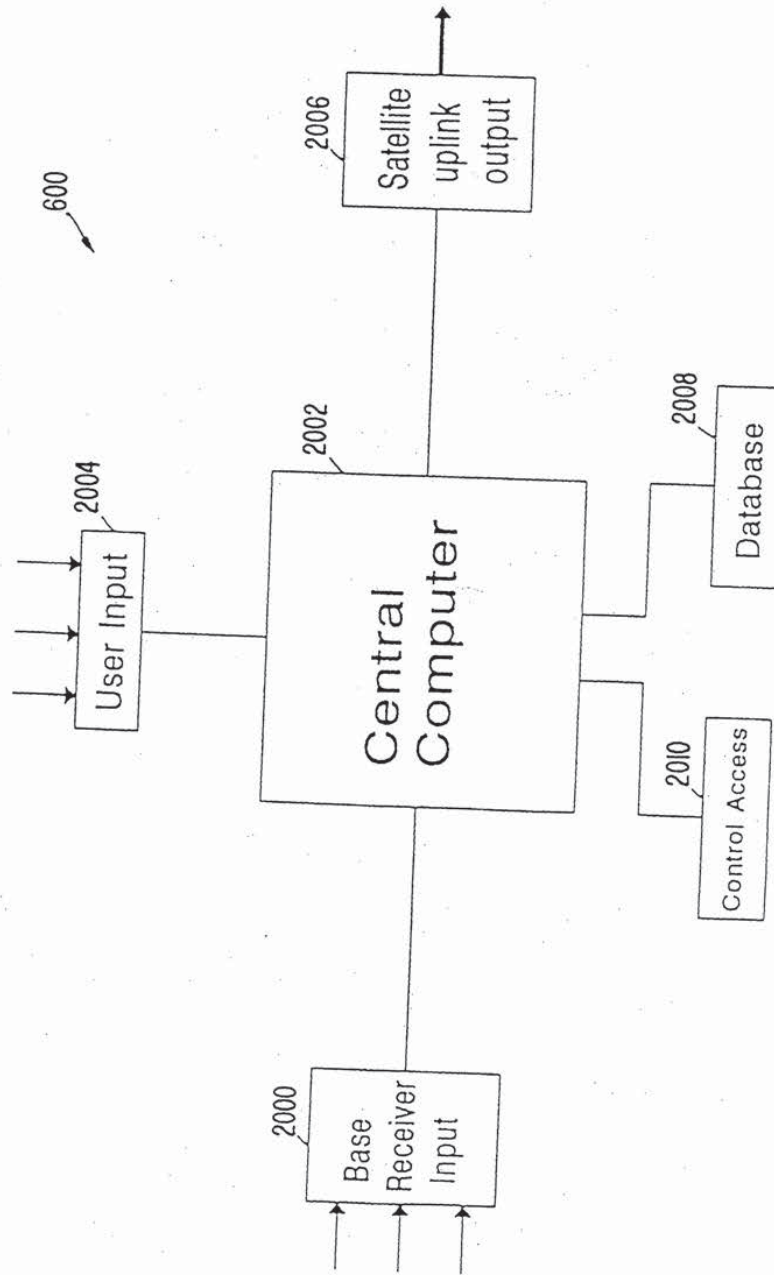
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 19



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 20 Network Operations Center



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 21

	2102	2104	2106	
	User 1	ID#	Last Location	Transmit Capability?
2108	Service Area		Message _____	Rec'd
2110	Button Format		-----	-----
			-----	-----

	User 2	ID#	Last Location	Transmit Capability?
	Service Area		Message _____	Rec'd
	Button Format		-----	-----
			-----	-----

User Database

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 22

2200

2202	2204	2206	2208	2210
User 1	No. of Probe Signals Sent	No. of Registration Signals Received	No. of Messages Successfully Delivered	Other Traffic Data
User 2	No. of Probe Signals Sent	No. of Registration Signals Received	No. of Messages Successfully Delivered	Other Traffic Data
User 3	No. of Probe Signals Sent	No. of Registration Signals Received	No. of Messages Successfully Delivered	Other Traffic Data
User 4	No. of Probe Signals Sent	No. of Registration Signals Received	No. of Messages Successfully Delivered	Other Traffic Data
■ ■ ■ ■				

Traffic Database

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 23

Service Queue

Current Messages		2300
ID#	Data Location	
2302		2308
2304		2310
2306		2312
⋮	⋮	
Probe List		
ID#	Data Location	
2314		2320
2316		2322
2318	⋮	2324

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 24

2400

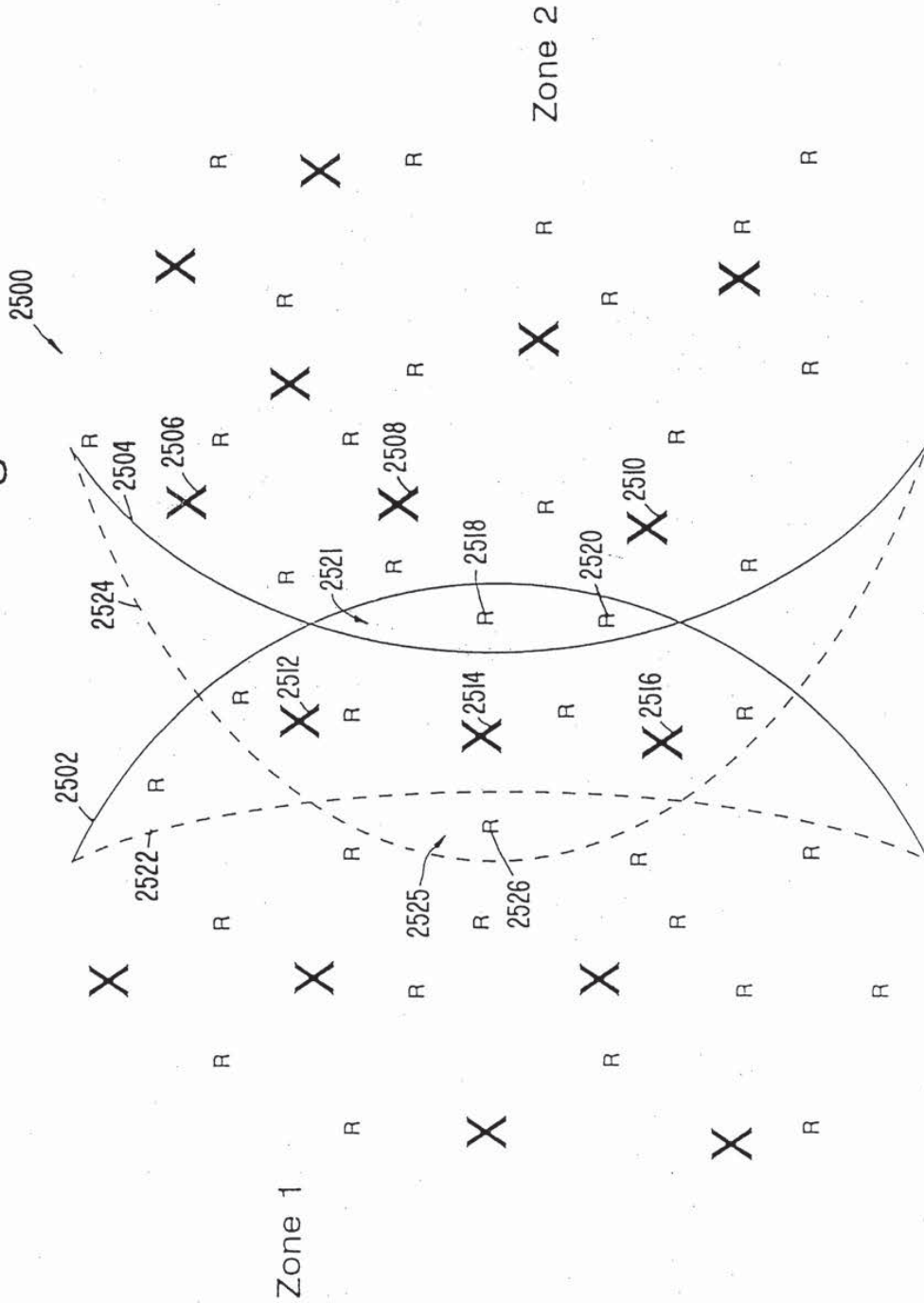
2402	2404	2406	2408
Base Transmitter 1	Zonal Assignment	Base Receivers in Coverage Area	Other Data
Base Transmitter 2	Zonal Assignment	Base Receivers in Coverage Area	Other Data
Base Transmitter 3	Zonal Assignment	Base Receivers in Coverage Area	Other Data
Base Transmitter 4	Zonal Assignment	Base Receivers in Coverage Area	Other Data
■ ■ ■ ■			

Base Transmitter Database

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

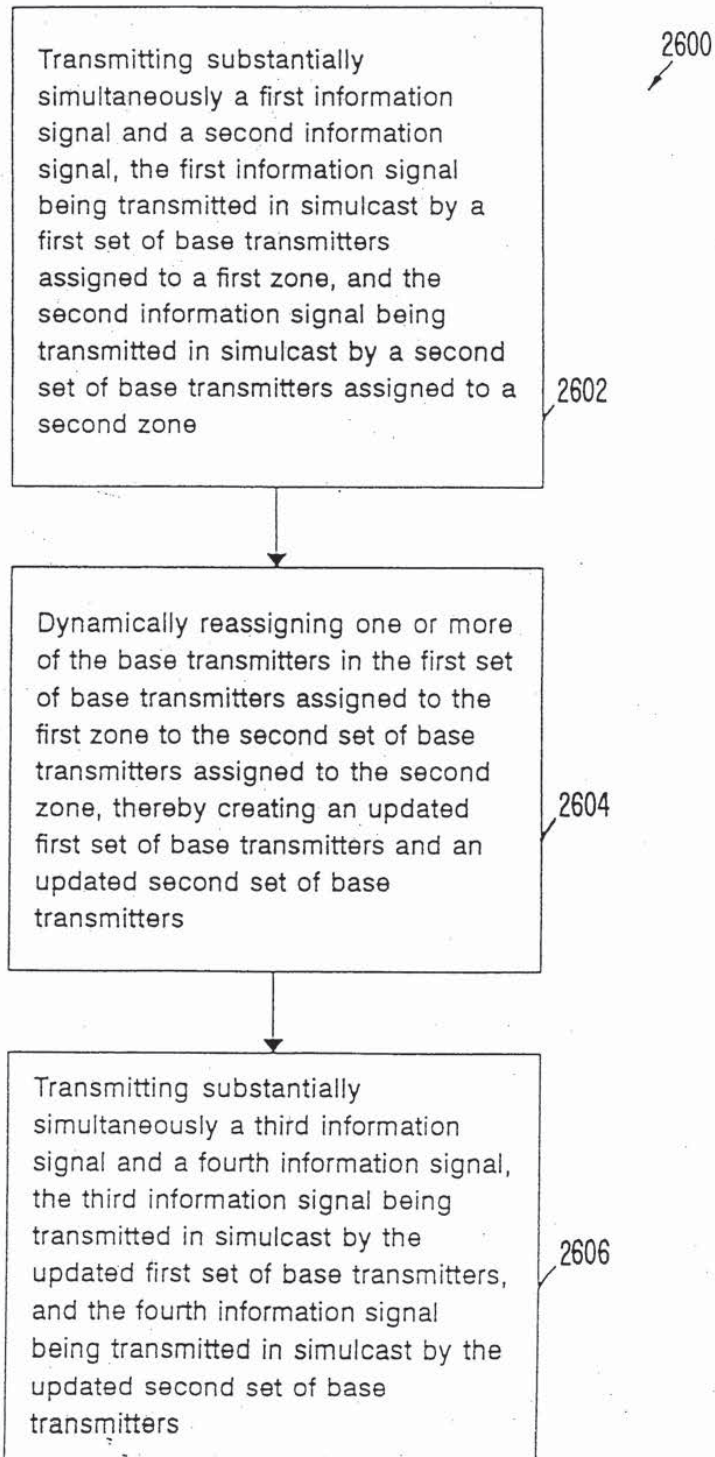
Zone Dithering

FIG. 25

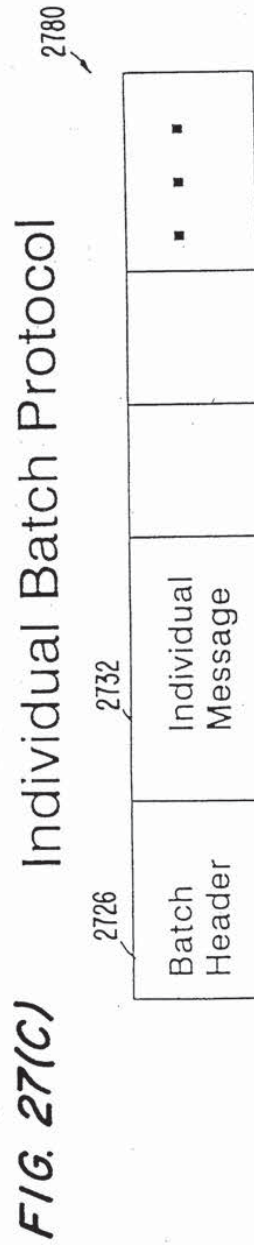
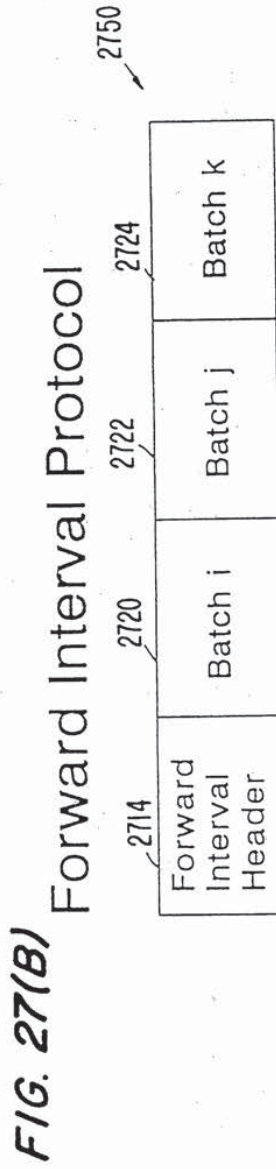
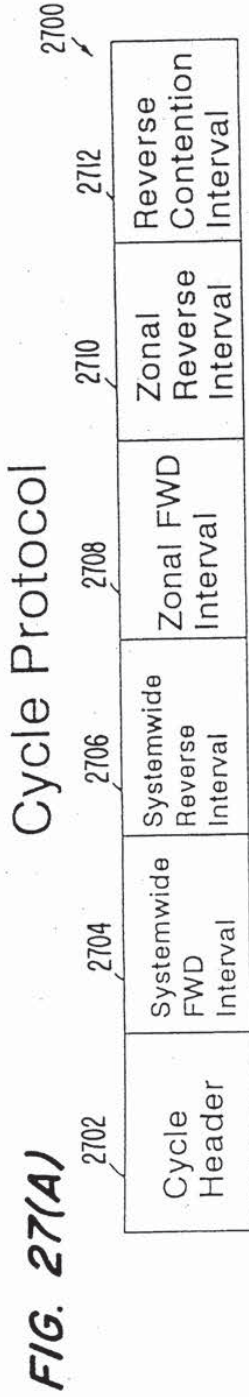


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 26

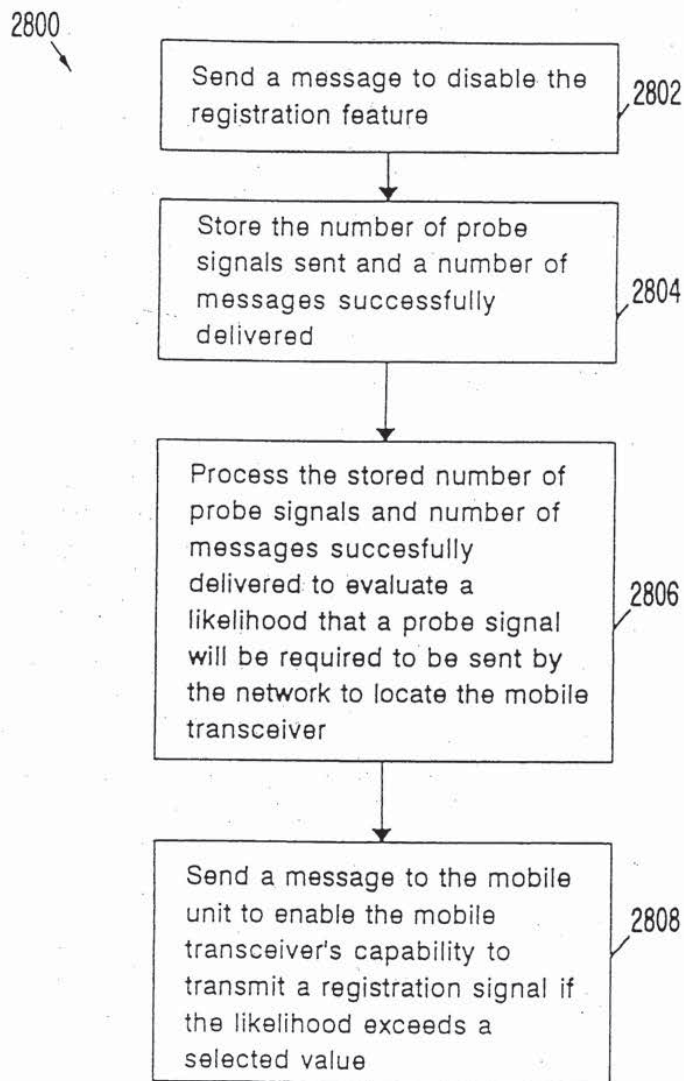


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



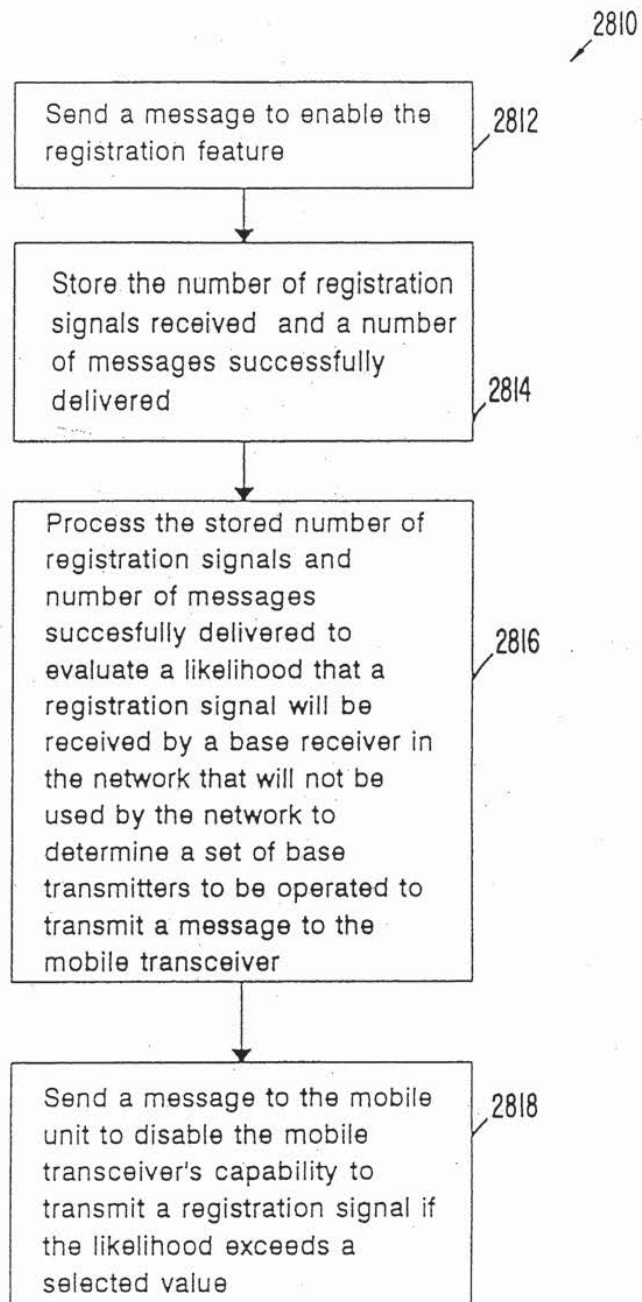
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 28(A)



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 28(B)



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 29(B)

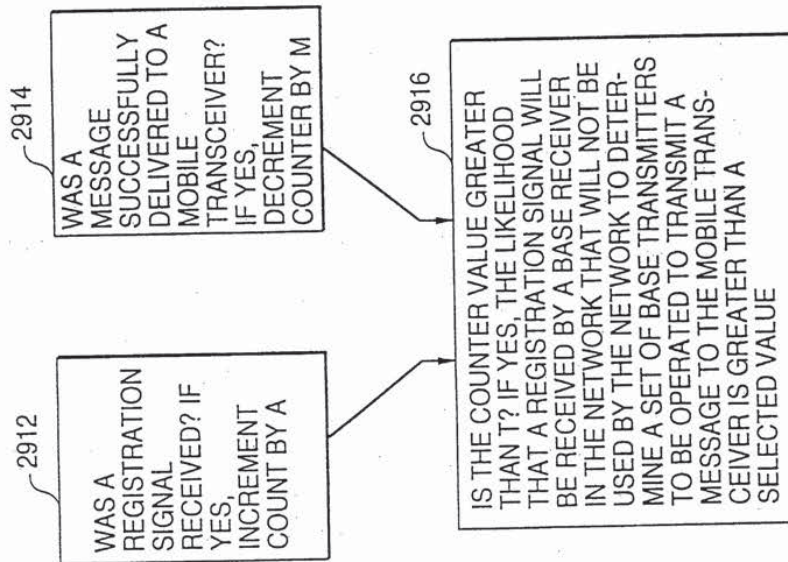
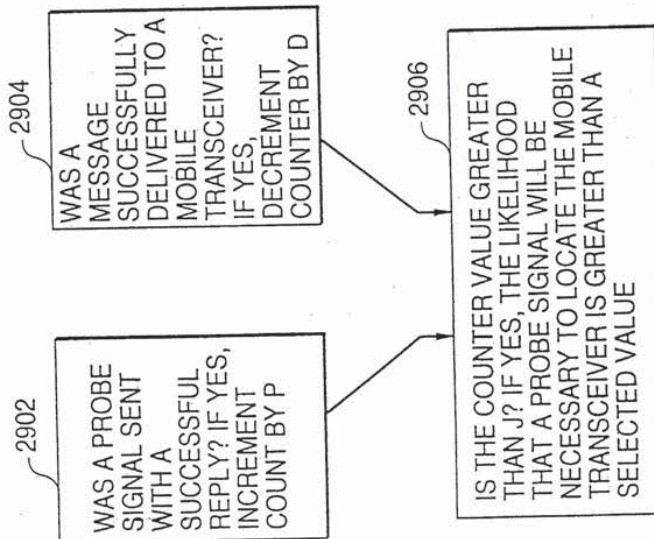


FIG. 29(A)



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PTO UTILITY GRANT

Paper Number 30

The
United
States
of
America



The Commissioner of Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to a statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Bruce Tedman
Commissioner of Patents and Trademarks

Samaly Cooper
Attest

Form PTO-1594 (Rev. 2/97)

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Docket No. SKY92002P1

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- 2. Power of Attorney & Revocation of Power of Attorney
- 3. "Fee Address" Indication Form

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 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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Docket No.: SKY92002P1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Cameron et al.

Patent No.: 5,754,946

Issued: May 19, 1998

Title: Nationwide Communication System

Art Unit: 2611

Examiner: T. Lee

POWER OF ATTORNEY AND REVOCATION OF POWER OF ATTORNEY BY ASSIGNEE

Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I hereby appoint practitioners at Customer No. 25537, which includes: Steven McCann, Reg. No. 34,958; David J. O'Neill, Reg. No. 42,953; and Michael A. Wrenn, Reg. No. 42,237, as attorneys and Frank A. McKiel, Jr., Reg. No. 43,792; and Eden U.I. Stright, Reg. No. 51,205, as patent agents, with full power of substitution and revocation, to prosecute this application, as well as any continuation and divisional applications claiming priority to this application, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please revoke all previous powers of attorney or authorizations of agent.

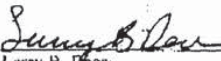
In accordance with 37 CFR 3.73, the Assignee hereby certifies that the evidentiary documents with respect to its ownership have been reviewed and that, to the best of Assignee's knowledge and belief, title, right and interest are solely in the name of the Assignee seeking to take this action.

The undersigned is authorized to sign on behalf of the Assignee of Record.

All correspondence shall continue to be addressed to Customer No. 25537.

Respectfully submitted,

Date: Oct. 22, 2004


Larry B. Deer
Vice President
Skytel Corp.

PTO/SBPA (34-63)
Approved for use through 04/30/2005 OMB 065-1-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Cameron et al.

Application No./Patent No.: 5,754,946 Filed/Issue Date: May 19, 1998

Entitled: Nationwide Communication System

Skytel Corp. a Corporation

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

states that it is:

1. the assignee of the entire right, title, and interest; or

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

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

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

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

Inventors Mobile Telecommunication Technologies

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel 6070, Frame 0008, or for which a copy thereof is attached.

2. From: Mobile Telecommunication Technologies To: Destineer Corporation
The document was recorded in the United States Patent and Trademark Office at Reel 7326, Frame 0979, or for which a copy thereof is attached.

3. From: Destineer Corporation To: Skytel Corp.
The document was recorded in the United States Patent and Trademark Office at Reel 81004, Frame 0037, or for which a copy thereof is attached.

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

Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.00]

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

Oct. 22, 2004 Larry B. Deer
Date (Typed or printed name)
601-460-3890 Larry B. Deer
Telephone number Signature
Vice President
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to do (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 and 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 1460, Alexandria, VA 22313-1460. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

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~~5,754,946~~ 5,754,946

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
08/124,219	09/21/1993	DENNIS W. CAMERON	03680.008301

25537
VERIZON
PATENT MANAGEMENT GROUP
1515 N. COURTHOUSE ROAD
SUITE 500
ARLINGTON, VA 22201-2909

CONFIRMATION NO. 6160



OC00000019951314

Date Mailed: 08/09/2006

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/26/2004.

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.

MARGARET W STEVENS
OIFE (703) 308-9010

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
08/124,219	09/21/1993	DENNIS W. CAMERON	03680.008301

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005

CONFIRMATION NO. 6160



OC000000019951294

Date Mailed: 08/09/2006

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/26/2004.

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



 MARGARET W STEVENS
 OIP (703) 308-9010

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PATENT APPLICATION FEE DETERMINATION RECORD					Application or Docket Number <i>124219</i>					
Effective October 1, 1992										
CLAIMS AS FILED - PART I					SMALL ENTITY OR OTHER THAN SMALL ENTITY					
		(Column 1)	(Column 2)							
FOR		NUMBER FILED	NUMBER EXTRA		RATE	FEE				
BASIC FEE					\$355.00					
TOTAL CLAIMS		<i>9</i>	minus 20 = *		x\$11=					
INDEPENDENT CLAIMS		<i>3</i>	minus 3 = *		x 37=					
MULTIPLE DEPENDENT CLAIM PRESENT					+115=					
					TOTAL					
					OR	TOTAL <i>710</i>				
* If the difference in column 1 is less than zero, enter "0" in column 2										
CLAIMS AS AMENDED - PART II					SMALL ENTITY OR OTHER THAN SMALL ENTITY					
		(Column 1)	(Column 2)	(Column 3)						
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
	Total	<i>9</i>	Minus	<i>20</i>	=	x\$11=		OR	x\$22=	
	Independent	<i>3</i>	Minus	<i>3</i>	=	x 37=		OR	x 74=	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					+ 115=		OR	+230=	
					TOTAL		OR	TOTAL		
					ADDIT. FEE		OR	ADDIT. FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
	Total	*	Minus	**	=	x\$11=		OR	x\$22=	
	Independent	*	Minus	***	=	x 37=		OR	x 74=	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					+ 115=		OR	+ 230=	
					TOTAL		OR	TOTAL		
					ADDIT. FEE		OR	ADDIT. FEE		
AMENDMENT C		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
	Total	*	Minus	**	=	x\$11=		OR	x\$22=	
	Independent	*	Minus	***	=	x 37=		OR	x 74=	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					+115=		OR	+230=	
					TOTAL		OR	TOTAL		
					ADDIT. FEE		OR	ADDIT. FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.										
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".										
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

PTO 1130 (REV. 11/81)

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PACE DATA ENTRY CODING SHEET

1ST EXAMINER *J. Sullivan* DATE *10/12*
 2ND EXAMINER *R. Dixon* DATE *8/28/92*

APPLICATION NUMBER **08 124219** CLASS *370* SHEETS OF DRAWING *28*

TYPE APPL *7* MONTH *09* DAY *21* YEAR *93* SPECIAL HANDLING *0* GROUP ART UNIT *2603*

TOTAL CLAIMS *9* INDEPENDENT CLAIMS *3* FILING FEE *840* FOREIGN LICENSE *Y* ATTORNEY DOCKET NUMBER *03680.008301*

CONTINUITY DATA

CONTINUITY CODE	PARENT APPLICATION SERIAL NUMBER	PARENT PATENT NUMBER	PARENT FILING DATE MONTH	PARENT FILING DATE DAY	PARENT FILING DATE YEAR
<i>03</i>	<i>7973918</i>		<i>11</i>	<i>12</i>	<i>92</i>
	<i>0</i>				
	<i>0</i>				
	<i>0</i>				
	<i>0</i>				

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FOREIGN PRIORITY CLAIMED	COUNTRY CODE	PCT/FOREIGN APPLICATION SERIAL NUMBER	FOREIGN FILING DATE MONTH	FOREIGN FILING DATE DAY	FOREIGN FILING DATE YEAR