Exhibit 1402

PART B - FEE(S) TRANSMITTAL

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

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

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

7590 10/19/2005

MOTOROLA INC
600 North US Highway 45
AS437
Libertyville, IL 60048

11/08/2005 WABDELR3 00000053 502117 09995338

01 FC:1501 1400.00 DA
02 FC:1504 300.00 DA

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

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

June Edwards (Depositor's name)
June Edwards (Signature)
11/07/05 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,338	11/27/2001	Eric Thomas Eaton	PT03730U	9642

TITLE OF INVENTION: SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1400	$300	$1700	01/19/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
PEESO, THOMAS R	2132	713-182000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 Randi L. Karpinia
2 Sylvia Chen
3

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

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

(A) NAME OF ASSIGNEE: Motorola, Inc.
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Schaumburg, IL

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

4a. The following fee(s) are enclosed:
☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies

4b. Payment of Fee(s):
☐ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 502117 (enclose an extra copy of this form).

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

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

Authorized Signature Sylvia Chen Date 07 NOV 2005
Typed or printed name Sylvia Chen Registration No. 39,633

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

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 10/19/2005

MOTOROLA INC
600 North US Highway 45
AS437
Libertyville, IL 60048

EXAMINER	
PEESO, THOMAS R	
ART UNIT	PAPER NUMBER
2132	

DATE MAILED: 10/19/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,338	11/27/2001	Eric Thomas Eaton	PT03730U	9642

TITLE OF INVENTION: SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1400	$300	$1700	01/19/2006

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

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

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

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

PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

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Alexandria, Virginia 22313-1450

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(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,338	11/27/2001	Eric Thomas Eaton	PT03730U	9642

TITLE OF INVENTION: SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

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nonprovisional	NO	$1400	$300	$1700	01/19/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
PEESO, THOMAS R	2132	713-182000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____ 3 _____

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

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

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

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

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

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,338	11/27/2001	Eric Thomas Eaton	PT03730U	9642

7590 10/19/2005

MOTOROLA INC
600 North US Highway 45
AS437
Libertyville, IL 60048

EXAMINER	
PEESO, THOMAS R	
ART UNIT	**PAPER NUMBER**
2132	

DATE MAILED: 10/19/2005

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

The Patent Term Adjustment to date is 875 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 875 day(s).

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

PTOL-85 (Rev. 07/05) Approved for use through 04/30/2007.

Notice of Allowability	Application No.	Applicant(s)	
	09/995,338	EATON ET AL.	
	Examiner	Art Unit	
	Thomas R. Peeso	2132	

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

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

1. ☒ This communication is responsive to *09202005*.

2. ☒ The allowed claim(s) is/are *5, 7-72 (renumbered as 1-67)*.

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

   * Certified copies not received: _____.

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

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Thomas R Peeso
Primary Examiner
Art Unit: 2132

Issue Classification	Application/Control No.	Applicant(s)/Patent under Reexamination	
	09/995,338	EATON ET AL.	
	Examiner	Art Unit	
	Thomas R. Peeso	2132	

ISSUE CLASSIFICATION

ORIGINAL CLASS	ORIGINAL SUBCLASS	CROSS REFERENCE(S) CLASS	CROSS REFERENCE(S) SUBCLASS (ONE SUBCLASS PER BLOCK)
713	182	713	153, 161, 189, 193, 200, 201

INTERNATIONAL CLASSIFICATION: G06F 01/26

(Assistant Examiner) (Date)

Kim Watson-Saunders
(Legal Instruments Examiner) (Date) 10/18/05

THOMAS R. PEESO
PRIMARY EXAMINER

(Primary Examiner) 17 OCT 05 (Date)

Total Claims Allowed: 67

O.G. Print Claim(s)	O.G. Print Fig.
1	1

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1	26	31	56	61		91		121		151		181
	2	27	32	57	62		92		122		152		182
	3	28	33	58	63		93		123		153		183
	4	29	34	59	64		94		124		154		184
2	5	30	35	60	65		95		125		155		185
	6	31	36	61	66		96		126		156		186
3	7	32	37	62	67		97		127		157		187
4	8	33	38	63	68		98		128		158		188
5	9	34	39	64	69		99		129		159		189
6	10	35	40	65	70		100		130		160		190
7	11	36	41	66	71		101		131		161		191
8	12	37	42	67	72		102		132		162		192
9	13	38	43		73		103		133		163		193
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17	22	47	52		82.		112		142		172		202
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19	24	49	54		84		114		144		174		204
20	25	50	55		85		115		145		175		205
21	26	51	56		86		116		146		176		206
22	27	52	57		87		117		147		177		207
23	28	53	58		88		118		148		178		208
24	29	54	59		89		119		149		179		209
25	30	55	60		90		120		150		180		210

Search Notes

Application/Control No.	Applicant(s)/Patent under Reexamination
09/995,338	EATON ET AL.
Examiner	**Art Unit**
Thomas R. Peeso	2132

SEARCHED

Class	Subclass	Date	Examiner
713	182	15JUN05	TP
	153		
	161		
	189		
	193		
	200		
	201		

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
713	182	17OCT05	TP
	153		
	161		
	189 193 200		

SEARCH NOTES (INCLUDING SEARCH STRATEGY)

	DATE	EXMR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	EATON, ET AL.	ART UNIT:	2132
APPLN. NO.:	09/995,338	EXAMINER:	PEESO, THOMAS R.
FILED:	11/27/2001		
TITLE:	SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR		

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

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

Dear Sir:

Responsive to the Office Action dated June 20, 2005, consideration of the following amendments and remarks and withdrawal of the current objections and rejections is respectfully requested.

Please amend the above-referenced application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 18 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1-4. (canceled)

5. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the first messaging client further includes at least one user preference, the method further comprising:

transferring the at least one user preference from the first messaging client to the second messaging client; and

operating within the second communication connection by the second messaging client using the at least one user preference.

6. (canceled)

7. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the first messaging client operates within a first messaging device, and further wherein the first messaging device includes a user interface, the method further comprising prior to the transferring step:

requesting the transfer of the plurality of client data by a user input to the user interface of the first messaging device.

8. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the second messaging client operates within a second messaging device, and further wherein the second messaging device includes a user interface, the method further comprising prior to the transferring step:

requesting the transfer of the plurality of client data by a user input to the user interface of the second messaging device.

9. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the second messaging client operates within a mobile device, wherein in the transferring step the transfer of the plurality of client data is in response to a movement of the mobile device.

10. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the second messaging client.

11. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the second messaging client operates within a second messaging device, wherein the second messaging device includes a data transfer application, and further wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the data transfer application.

12. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the first messaging client operates within a first messaging device, wherein the first messaging device includes a data transfer application, and further wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the data transfer application.

13. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein in the transferring step the transfer of the plurality of client data is in response to the second messaging client establishing the second communication connection.

14. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the second messaging client operates within a second messaging device, and further wherein in the transferring step the transfer of the plurality of client data is in response to activating the second messaging device.

15. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 further comprising:

disconnecting the first messaging client from the first communication connection prior to the transferring step.

16. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21 further comprising:

disconnecting the first messaging client from the first communication connection after the transferring step.

17. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim 21, wherein the plurality of client data includes at least one client data portion, and further wherein the transferring step comprises transferring the at least one client data portion.[[.]]

18. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 17 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a client data requirement, wherein the client data portion is determined using the client data requirement.

19. (currently amended) Within a messaging communication system having a plurality of messaging clients and a message server, a method for providing continuity between the plurality of messaging clients comprising:

establishing for a first messaging client a first communication connection with the message server including a plurality of client data;

establishing for a second messaging client a second communication connection with the message server; and

transferring the plurality of client data from the first messaging client to the second messaging client in response to the second communication connection.

20. (currently amended) Within a messaging communication system having a plurality of messaging clients and a message server, a method for providing continuity between the plurality of messaging clients comprising:

establishing for a first messaging client a first communication connection with the message server including a plurality of client data, wherein the first messaging client includes a first account identifier;

providing the first account identifier for the first messaging client to the messaging communication system;

transferring the plurality of client data from the first messaging client to a second messaging client, wherein the second messaging client includes a second account identifier;

providing the second account identifier from the second messaging client to the messaging communication system; and

establishing for the second messaging client a second communication connection with the message server including the plurality of client data using the second account identifier.

21. (original) Within a messaging communication system having a message server for managing the communication of a plurality of messages among a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection including a plurality of client data between a first messaging client and the message server;

transferring the plurality of client data from the first messaging client to a second messaging client; and

establishing a second communication connection including the plurality of client data between the second messaging client and the message server.

22. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 21 further comprising:

authenticating an account user by the first messaging client using an authentication key prior to the transferring step.

transferring the authentication key from the first messaging client to the second messaging client; and

authenticating the account user by the second messaging client using the authentication key.

23. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the plurality of client data includes a plurality of contact data, and further wherein the plurality of contact data comprises at least one account identifier.

24. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 23 wherein the plurality of contact data further comprises a contact information for the at least one account identifier.

25. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the plurality of client data includes at least one user preference.

26. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the message server includes a server identity, wherein the plurality of client data includes the server identity, and further wherein the second communication connection is established using the server identity received within the plurality of client data.

27. (original) Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing at least one messaging session having a session identifier between the first messaging client and at least one other messaging client of the plurality of messaging clients;

transferring a plurality of session data for the first session connection including the session identifier from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of session data for the second messaging client; and

participating in the at least one messaging session in the second communication connection using the session identifier.

28. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 further comprising:

sending a notification of session data transfer to at least one other messaging client participating in the at least one messaging session.

29. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification includes a client profile of the second messaging client.

30. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification is sent from the first messaging client.

31. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification is sent from the second messaging client.

32. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the messaging communication system further includes a messaging server, and further wherein the notification is sent from the messaging server.

33. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 28 further comprising:

informing an account user of the session data transfer by the at least one other messaging client in response to receiving the notification.

34. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the messaging session includes a session history having at least one session portion, and further wherein the plurality of session data further includes the session portion.

35. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 34 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a session data requirement, wherein the session portion is determined using the session data requirement.

36. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data further includes a session priority indicator, wherein the session priority indicator determines a priority of the messaging session within the messaging communication system.

37. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data further includes a session priority indicator, wherein the session priority indicator determines a priority of the messaging session within the second messaging client.

38. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data includes at least one user preference.

39. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 27 further comprising:

sending a notification of session data transfer, wherein the notification includes a client profile for the second messaging client; and

sending a plurality of content to the second messaging client using the client profile.

40. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 39 wherein the notification is sent from the first messaging client and the plurality of content is sent from at least one other messaging client.

41. (original) Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing a plurality of messaging sessions each having a session identifier between the first messaging client and at least one of the plurality of messaging clients;

transferring a plurality of client data for the first communication connection including at least one session identifier for at least one messaging session from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of client data for the second messaging client; and

participating in the at least one messaging session in the second communication connection using the session identifier.

42. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 41 further comprising:

sending a notification of data transfer to at least one of the plurality of messaging clients participating in the at least one messaging session.

43. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification is sent from the first messaging client.

44. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification is sent from the second messaging client.

45. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification includes a client profile of the second messaging client.

46. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 41 further comprising:

sending a notification of data transfer, wherein the notification includes a client profile for the second messaging client; and

sending a plurality of content to the second messaging client using the client profile.

47. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 41 wherein the messaging session includes a session history having at least one session portion, and further wherein the plurality of client data further includes the session portion.

48. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 47 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a client data requirement, wherein the session portion is determined using the client data requirement.

49. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 41 wherein the plurality of client data further includes a session priority indicator, wherein the session priority indicator determines the priority of the messaging session within the messaging communication system.

50. (currently amended) A method for providing continuity between a plurality of messaging clients as recited in claim ~~42~~ 41 wherein the plurality of client data includes at least one user preference.

51. (original) Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing at least one messaging session having a session identifier between the first messaging client and at least one other messaging client of the plurality of messaging clients;

transferring a plurality of client data for the first communication connection including the session identifier from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of client data for the second messaging client; and

adding the second messaging client to the at least one messaging session using the session identifier.

52. (original) Within a messaging communication system having a message server for managing a plurality of multiple user messaging sessions, wherein the multiple user messaging sessions comprise communication of a plurality of session messages among a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client within a multiple user messaging session of the message server;

transferring a plurality of client data for the first communication connection from the first messaging client to a second messaging client;

sending a data transfer message to the message server wherein the data transfer message includes a session reservation for the second messaging client; and

establishing a second communication connection for the second messaging client within the multiple user messaging session of the message server using the plurality of client data.

53. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 52 wherein the first messaging client has a first client identifier, wherein the multiple user messaging session has a session identifier, wherein the second messaging client has a second client identifier, wherein the plurality of client data includes the session identifier, and further wherein the data transfer message includes the session identifier, the first client identifier, and the second client identifier.

54. (original) A method for providing continuity between a plurality of messaging clients as recited in claim 53, wherein the multiple user messaging session includes at least one other messaging client, the method further comprising:

sending a notification of data transfer to the at least one other messaging client.

55. (currently amended) A plurality of messaging clients within a messaging communication system for providing continuity between the plurality of messaging clients comprising:

a first messaging client, for establishing a first communication connection including a plurality of client data with a message server; and

a second messaging client for receiving the plurality of client data from the first messaging client and for establishing a second communication connection including the plurality of client data with the message server.

56. (original) A plurality of messaging clients as recited in claim 55 wherein the first messaging client operates within a first messaging device and the second messaging client operates within a second messaging device.

57. (original) A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes:

a memory coupled to the first messaging client for storing the plurality of client data, wherein the first messaging client accesses the plurality of client data from the memory, and further wherein the first messaging client transfers the plurality of client data to the second messaging device.

58. (original) A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes:

a memory coupled to the first messaging client for storing the plurality of client data, wherein the first messaging client accesses the plurality of client data from the memory, and

a data transfer application coupled to the first messaging client for transferring the plurality of client data to the second messaging device.

59. (original) A plurality of messaging clients as recited in claim 56 wherein the second messaging device includes:

a memory coupled to the second messaging client, wherein the second messaging client receives the plurality of client data and stores the plurality of client data in the memory.

60. (original) A plurality of messaging clients as recited in claim 56 wherein the second messaging device includes:

a data transfer application coupled to the second messaging client for receiving the plurality of client data, wherein the second messaging client processes the received plurality of client data, and

a memory coupled to the second messaging client for storing the plurality of client data.

61. (original) A plurality of messaging clients as recited in claim 56 wherein the first messaging device is a fixed device and further wherein the second device is a mobile device.

62. (original) A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes a first memory interconnect for connecting the first messaging device to a memory storage device, wherein the second messaging device includes a second memory interconnect for connecting the second messaging device to the memory storage device, wherein the first messaging device stores the plurality of client data on the memory storage device, and further wherein the second messaging device receives the plurality of client data from the memory storage device connecting to the second memory interconnect.

63. (original) A plurality of messaging clients as recited in claim 62 wherein the first messaging client and the second messaging client operate within a messaging device.

64. (original) A messaging communication system for providing continuity between a plurality of messaging clients comprising:

the plurality of messaging clients including:

a first messaging client,

a second messaging client, and

at least one other messaging client;

a message server for managing the communication of a plurality of session messages among the plurality of messaging clients, wherein the message server is programmed to:

establish a first communication connection for the first messaging client,

establish at least one messaging session having a session identifier between the first messaging client and the at least one other messaging client,

transfer a plurality of client data for the first communication connection including the session identifier from the first messaging client to the second messaging client,

establish a second communication connection including the plurality of client data for the second messaging client, and

transfer the at least one messaging session from the first messaging client to the second messaging client using the session identifier.

65. (original) A messaging communication system for providing continuity between a plurality of messaging clients as recited in claim 64 wherein the message server includes a server memory, wherein the first messaging client stores the plurality of client data in the server memory, and further wherein the second messaging client retrieves the plurality of client data from the server memory for use in the operation of the second communication connection.

66. (original) A messaging communication system as recited in claim 64 wherein the first messaging client operates within a first messaging device and the second messaging client operates within a second messaging device.

67. (original) A messaging communication system as recited in claim 64 wherein the first messaging client and the second messaging client operate within a messaging device.

68. (original) A messaging communication system as recited in claim 64 wherein the messaging communication system comprises a first messaging system and a second messaging system, wherein the first messaging client functions within the first messaging system, and further wherein the second messaging client functions within the second messaging system.

69. (original) A messaging communication system as recited in claim 68 wherein the first messaging system comprises a wired messaging system and further wherein the second messaging system comprises a wireless messaging system.

70. (original) A messaging communication system as recited in claim 68 wherein the first messaging system comprises a wireless messaging system and further wherein the second messaging system comprises a wired messaging system.

71. (original) A messaging communication system for providing continuity between a plurality of messaging clients comprising:

the plurality of messaging clients including:

a first messaging client for establishing a first communication connection including a plurality of client data, and

a second messaging client for establishing a second communication connection including the plurality of client data; and

a server memory coupled to the plurality of messaging clients, wherein the first messaging client stores the plurality of client data in the server memory, and further wherein the second messaging client retrieves the plurality of client data from the server memory for use in the operation of the second communication connection.

72. (original) A messaging communication system as recited in claim 71 wherein the server memory is contained within a message server of the messaging communication system.

REMARKS

The issues currently in the instant application are as follows:

- Claims 1-4, 19-24, 27, 36-41, 46, 49, 55, and 57-61 were rejected under 35 U.S.C. § 102(b) as being anticipated by Eggleston (US 6,101,531).
- Claims 10-18, 28-33, 42-45, and 56 were rejected under 35 U.S.C. 103(a) as being unpatentable over Eggleston (US 6,101,531) in view of Official Notice.
- Claims 5-9, 25-26, 34-35, 47-48, 50, 62, and 63 have been objected to as being dependent upon a rejected base claim.

Applicant traverses all the outstanding objections and rejections and requests reconsideration and withdrawal thereof in light of the amendments and remarks contained herein.

Amendments to the Claims

Claims 1-4 and 6 have been canceled.

Claims 5 and 7-17 have been amended to depend from independent claim 21 instead of claim 1. Claim 17 has also been amended to remove an extra period at the end of the sentence.

Claims 19-20 have been amended to recite a message server. One embodiment of a message server is element 172 shown in FIG. 8 and described on page 22 lines 3-13 of the originally-filed specification. Thus, no new matter has been added.

Claim 50 has been amended to depend from claim 41 instead of claim 42, which was a clerical error.

Claim 55 has been amended to recite a message server. One embodiment of a message server is element 172 shown in FIG. 8 and described on page 22 lines 3-13 of the originally-filed specification. Thus, no new matter has been added.

No amendment made was related to the statutory requirements of patentability unless expressly stated herein. No amendment was made for the purpose of narrowing the scope of any claim, unless Applicant had argued herein that such amendment was made to distinguish over a particular reference or combination of references.

35 U.S.C. § 102(b) - Eggleston

Claims 1-4, 19-24, 27, 36-41, 46, 49, 55, and 57-61 were rejected under 35 U.S.C. § 102(b) as being anticipated by Eggleston (US 6,101,531).

Claims 1-4 have been canceled.

Claims 19-20 and 55 have been amended to recite a "first messaging client" having a first communication connection with a message server and "a second messaging client" having a second communication connection with the message server. Claims 19-20 also recite transferring a plurality of client data from the first messaging client to the second messaging client. Claim 55 recites that the second messaging client receives the plurality of client data from the first messaging client. Applicant understands Eggleston to show only one client (e.g., Eggleston mobile station 105 or client 201) and several different types of servers (e.g., Eggleston communication server 110, 220 and post office host server 115, 240). Eggleston column 15 lines 46-50 does not show, suggest, or require that client data be transferred from one client to another client within a group. Only hindsight reconstruction might lead one of ordinary skill to conclude that multiple client packet rate governers (PRGs) 209 would be used to control group limits rather than the communication server's PRG 234. Thus, claims 19-20 and 55 are not anticipated by Eggleston. Claims 57-61 depend indirectly from claim 55 and thus are also not anticipated by Eggleston.

Similar to amended claims 19-20, original claim 21 recites "a first communication connection . . . between a first messaging client and the message server," "transferring . . . client data from the first messaging client to a second messaging client," and "a second

communication connection . . . between the second messaging client and the message server." As stated previously, Eggleston column 15 lines 46-50 does not show, suggest, or require that client data be transferred from one client to another client within a group. Thus, claim 21 is also not anticipated by Eggleston. Claims 22-24 depend directly or indirectly upon claim 21 and thus also are not anticipated by Eggleston.

Original claim 27 recites "establishing at least one messaging session having a session identifier between the first messaging client and at least one other messaging client" and "transferring . . . the session identifier from the first messaging client to a second message client." Eggleston describes a sessionless data flow between a mobile user 105 and a server 110. The server 110 maintains a session with a host 115, but the data flow between the mobile user 105 and the server 110 is managed through a virtual session and is actually sessionless. See Eggleston column 4 lines 35-56. Thus, Eggleston does not show or suggest (1) a messaging session with a session identifier or (2) transferring that session identifier from a first messaging client to a second messaging client as recited in claim 27. Claim 36-40 depend directly or indirectly upon claim 27 and also are not anticipated by Eggleston.

Similar to claim 27, original claim 41 recites "establishing a plurality of messaging sessions each having a session identifier between the first messaging client and at least one of the plurality of messaging clients" and "transferring . . . at least one session identifier . . . from the first messaging client to a second message client." Because Eggleston's data flow between the mobile user 105 and the server 110 is sessionless, claim 41 is not anticipated by Eggleston. Claim 46 and 49 depend directly upon claim 41 and also are not anticipated by Eggleston.

Reconsideration and withdrawal of the rejection of claims 1-4, 19-24, 27, 36-41, 46, 49, 55, and 57-61 under 35 U.S.C. § 102(b) as being anticipated by Eggleston is respectfully requested.

35 U.S.C. § 103(a) - Eggleston

Claims 10-18, 28-33, 42-45, and 56 were rejected under 35 U.S.C. 103(a) as being unpatentable over Eggleston (US 6,101,531) and further in view of Official Notice regarding activation activity.

Claims 10-17 have been amended to depend from independent claim 21. Claim 18 depends from claim 17, which depends from claim 21. Independent claim 21 has been discussed with respect to Eggleston above, and due to the dependency of claims 10-18 on claim 21, claims 10-18 are not unpatentable over Eggleston in view of Official Notice.

Claims 28-33 depend directly or indirectly from claim 27 (discussed with respect to Eggleston above) and thus are not unpatentable over Eggleston in view of Official Notice.

Claims 42-45 depend directly or indirectly from claim 41 (discussed with respect to Eggleston above) and thus are not unpatentable over Eggleston in view of Official Notice.

Claim 56 depends directly from claim 55 (discussed with respect to Eggleston above) and thus is not unpatentable over Eggleston in view of Official Notice.

Reconsideration and withdrawal of the rejection of claims 10-18, 28-33, 42-45, and 56 under 35 U.S.C. § 103(a) as being obvious in view of Eggleston and Official Notice is respectfully requested.

Allowable Subject Matter

Applicant acknowledges that the Examiner has indicated that claims 51-54 and 64-72 are allowable over the prior art of record. Applicant gratefully acknowledges that the Examiner has indicated that claims 5-9, 25-26, 34-35, 47-48, 50, 62, and 63 would be allowable if rewritten in independent form including all of the limitations of the base claims and any intervening claims.

SUMMARY

The application is in condition for allowance and a favorable response at an early date is earnestly solicited. Should the Examiner have any questions, comments, or suggestions, the Examiner is invited to contact Applicant's representative at the telephone number indicated below.

Please charge any fees associated herewith, including extension of time fees, to **Deposit Account 502117.**

Respectfully submitted,

By: Sylvia Chen 20SEP2005

Sylvia Chen Date
Attorney for Applicant
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Please send correspondence to:
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Libertyville, IL 60048
Customer Number: 20280

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	Application Number	09/995,338
	Filing Date	11/27/2001
	First Named Inventor	Eaton, et al.
	Group Art Unit	2132
	Examiner Name	Peeso, Thomas R.
	Attorney Docket Number	PT03730U

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I am the:

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

[X] Attorney or Agent of record.

[ ] Registered practitioner named in the application transmittal letter in an Application without an executed oath or declaration. See 37 CFR 1.33 (a)(1).
Registration Number 39,633

Typed or Printed Name Sylvia Chen

Signature Sylvia Chen
Date 20SEP2005

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

[X] *Total of 1 forms are submitted.

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TRANSMITTAL FORM

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Total Number of Pages in this Submission: 24

Application Number	09/995,338
Filing Date	11/27/2001
First Named Inventor	Eaton, et al.
Group Art Unit	2132
Examiner Name	Peeso, Thomas R.q
Attorney Docket Number	PT03730U

ENCLOSURES (check all that apply)

- [ ] Fee Transmittal Form
- [ ] Fee Attached
- [X] Amendment/Reply
- [ ] After Final
- [ ] Affidavits/Declaration(s)
- [ ] Extension of time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Documents
- [ ] Response to Missing Parts/ Incomplete Application
- [ ] Response to Missing Parts Under 37 CFR 1.52 or 1.53
- [ ] Assignment Papers (for an Application)
- [ ] Drawing(s)
- [ ] Licensing-Related papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [X] Power of Attorney, Revocation, Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CDs

Remarks

- [ ] After Allowance Communication to Group
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- [ ] Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- [ ] Proprietary Information
- [ ] Status Letter with appropriate copies
- [ ] Other Enclosure(s) (please identify below)
  - [ ] Response to Restriction Requirement
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  - [ ] Copy of Notice to File Missing Parts

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Sylvia Chen	Registration No.	39,633
Signature	Sylvia Chen		
Date	20SEP2005		

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PTO/SB/06 (08-03)
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PATENT APPLICATION FEE DETERMINATION RECORD
Substitute for Form PTO-875

Application or Docket Number: 09/915,288

CLAIMS AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE	SMALL ENTITY FEE	OR	OTHER THAN SMALL ENTITY RATE	OTHER THAN SMALL ENTITY FEE
BASIC FEE (37 CFR 1.16(a))				$395.00	OR		$790.00
TOTAL CLAIMS (37 CFR 1.16(c))	minus 20 =	*	x $25 =		OR	x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(b))	minus 3 =	*	x $100 =		OR	x $200 =	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))			+ $180 =		OR	+ $360	
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL		OR	TOTAL	

CLAIMS AS AMENDED – PART II

9/20/05

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE	SMALL ENTITY ADDITIONAL FEE	OR	OTHER THAN SMALL ENTITY RATE	OTHER THAN SMALL ENTITY ADDITIONAL FEE
Total (37 CFR 1.16(c))	* 67	Minus	** 72	=	x 25		OR	x $50	
Independent (37 CFR 1.16(b))	* 11	Minus	*** 11	=	x $100		OR	x $200	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))					+ $180		OR	+ $360	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
Total (37 CFR 1.16(c))	*	Minus	**	=	25		OR	x $50	
Independent (37 CFR 1.16(b))	*	Minus	***	=	x 100		OR	x 200	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))					+ $180		OR	+ $360	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT C

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
Total (37 CFR 1.16(c))	*	Minus	**	=	x 25		OR	x $50	
Independent (37 CFR 1.16(b))	*	Minus	***	=	x 100		OR	x 200	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))					+ $180		OR	+ $360	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,338	11/27/2001	Eric Thomas Eaton	PT03730U	9642

24273 7590 06/20/2005

MOTOROLA, INC
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EXAMINER	
PEESO, THOMAS R	

ART UNIT	PAPER NUMBER
2132	

DATE MAILED: 06/20/2005

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

Office Action Summary	Application No.	Applicant(s)	
	09/995,338	EATON ET AL.	
	Examiner	Art Unit	
	Thomas R. Peeso	2132	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-72 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) 51-54 and 64-72 is/are allowed.

6)☒ Claim(s) 1-4,10-24,27-33,36-46,49 and 55-61 is/are rejected.

7)☒ Claim(s) 5-9,25,26,34,35,47,48,50,62 and 63 is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on 11272001 is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11272001.
4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

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

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

Claims 1-4, 19-24, 27, 36-41, 46, 49, 55, 57-61 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 6,101,531 to Eggleston et al.

As per clams 1, 19, 20, 21, 27, 41, 55, Eggleston et al. disclose establishing for a first .....of client data (col. 15, lines 29-33), transferring the plurality .....messaging client and establishing for the second .....plurality of client data (col. 15, lines 46-50).

As per claims 2-4, 22-24, Eggleston et al. disclose the limitations of these claims (col. 6, lines 28-62).

As per claims 36-40, 46, 49, Eggleston et al. disclose these limitations (col. 8, lines 22-63).

As per claims 57-60, Eggleston et al. disclose these features (col. 5, lines 49-54).

As per claim 61, Eggleston et al. further disclose a mobile device (col. 4, lines 9-16).

Claim Rejections - 35 USC § 103

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

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

Claims 10-18, 28-33, 42-45, 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eggleston et al. as applied to claims 1-4, 19, 20, 22-24 above, and further in view of the examiner taking official notice.

As per claims 10-18, 28-33, 42-45, 56, Eggleston et al. do not specifically disclose these limitations. However, the examiner takes official notice that activation activity often results in a variety of transactions concerning the transfer and delivery of information. Specifically, these limitations make up the very essence of many communication systems so that users can be connected to each other in a reasonable fashion while maintaining account information pertinent to each user.

Allowable Subject Matter

Claims 51-54, 64-72 are allowed.

Claims 5-9, 25, 26, 34, 35, 47, 48, 50, 62, 63 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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

U.S. Patent No. 6,189,098 to Kaliski, Jr.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Peeso whose telephone number is 571 272-3809. The examiner can normally be reached on Mon.-Fri, 7:00 to 3:30 .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571 272-3799.

Thomas R. Peeso
Primary Examiner
Art Unit 2132

***
June 15, 2005

e type a plus sign (+) inside this box.

Substitute for form 1449A/PTO	Complete if Known	
INFORMATION DISCLOSURE **STATEMENT BY APPLICANT**	Application Number	
	Filing Date	
	First Named Inventor	Eric Thomas Eaton
(use as many sheets as necessary)	Group Art Unit	
	Examiner Name	
Sheet | | of |	Attorney Docket No.	PT03730U

J1003 U.S. PTO 09/995338 11/27/01

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. [1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,811,377				
		5,535,436				
		6,038,296				
		6,041,229				

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

Examiner Signature		Date Considered	15 JUN 05

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

[1] citation designation number. [2] See Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For [1]se patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the [1]riate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English Language Translation is [1]d.

Notice of References Cited	Application/Control No. 09/995,338	Applicant(s)/Patent Under Reexamination EATON ET AL.	
	Examiner Thomas R. Peeso	Art Unit 2132	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,101,531	08-2000	Eggleston et al.	709/206
	B	US-6,189,098	02-2001	Kaliski, Jr., Burton S.	713/168
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

Bib Data Sheet

CONFIRMATION NO. 9642

SERIAL NUMBER	FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/995,338	11/27/2001 RULE	713	2131	PT03730U

APPLICANTS

Eric Thomas Eaton, Lake Worth, FL;
David Jeffery Hayes, Lake Worth, FL;
Von Alan Mock, Boynton Beach, FL;

** CONTINUING DATA **********

** FOREIGN APPLICATIONS **********

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
** 12/17/2001

		STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed	☐ yes ☑ no	FL	24	72	11
35 USC 119 (a-d) conditions met	☐ yes ☑ no ☐ Met after Allowance				
Verified and Acknowledged	Examiner's Signature Initials				

ADDRESS

24273

TITLE

System for providing continuity between messaging clients and method therefor

FILING FEE RECEIVED 2348	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

Index of Claims

	Application/Control No. 09/995,338	**Applicant(s)/Patent under Reexamination** EATON ET AL.
	Examiner Thomas R. Peeso	**Art Unit** 2132

√	**Rejected**	–	**(Through numeral) Cancelled**	N	**Non-Elected**	A	**Appeal**
=	**Allowed**	÷	**Restricted**	I	**Interference**	O	**Objected**

Claim		Date								
Final	Original	15JUN05								
	1	✓								
	2	✓								
	3	✓								
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	48	O								
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Claim		Date								
Final	Original	15JUN05								
	51	=								
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Search Notes	Application/Control No.	Applicant(s)/Patent under Reexamination	
	09/995,338	EATON ET AL.	
	Examiner	Art Unit	
	Thomas R. Peeso	2132	

SEARCHED			
Class	Subclass	Date	Examiner
713	182	1.5JUN05	TP
	153		
	161		
	189		
	193		
	200		
	201		

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR

Refine Search

Search Results -

Terms	Documents
L8 and connection	59

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

Search: L9

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Tuesday, June 14, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=YES; OP=OR			
L9	L8 and connection	59	L9
L8	L7 and key	59	L8
L7	L6 and account	67	L7
L6	L5 and authentication	98	L6
L5	L4 and client adj data	258	L5
L4	message adj client	1876	L4
L3	message client	150663	L3
L2	message adj2 client	2991	L2
L1	message adj6 client	4468	L1

END OF SEARCH HISTORY

11-29-01

PTO/SB/05 (03-01)

A

Please type a plus sign (+) inside this box

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.:	PT03730U
First Inventor:	EATON, ERIC THOMAS ET AL.
Title:	SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR
Express Mail Label No.:	ET502955928US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

1. [X] Fee Transmittal Form in duplicate
(Submit an original and a duplicate for fee processing)
2. [ ] Applicant claims small entity status
See 37 CFR 1.27
3. [X] Specification [Total Pages 80]
(preferred arrangement set forth below)
-Descriptive title of the invention
-Cross Reference to Related Applications
-Statement Regarding Fed sponsored R&D
-Reference to sequence listing, a table, or a computer program listing appendix
-Background of the Invention
-Brief Summary of the Invention
-Brief Description of the Drawings *(if filed*
-Detailed Description
-Claim(s)
-Abstract of the Disclosure
4. [X] Drawing(s) (35 U.S.C. 113) [Total Sheets 24]
5. Oath or Declaration [Total Pages 4]
   a. [X] Newly executed (original or copy)
   b. [ ] Copy from a prior application (37 CFR 1.63(d))
   (for continuation/ divisional with Box 18 completed)
   i. [ ] DELETION OF INVENTOR(S)
   Signed statement attached deleting inventor(s) named in the prior application, ee 37 CFR 1.63(d)(2) and 1.33(b).
6. [ ] Application Data Sheet under 37 CFR 1.76
7. [ ] CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. [ ] Nucleotide and/or Amino Acid Sequence (if applicable, all necessary)
   a. [ ] Computer Readable Form (CFR)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies);
      ii. [ ] or paper
   c. [ ] Statements verifying identify of above copies

ACCOMPANYING APPLICATION PARTS

9. [X] Assignment Papers (cover sheet & document(s))
10. [ ] 37 CFR 3.73(b) Statement [ ] Power of Attorney (when there is an assignee)
11. [ ] English Translation Document (if applicable)
12. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
13. [ ] Preliminary Amendment
14. [X] Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. [ ] Certified Copy of Priority Document (if foreign priority is claimed)
16. [ ] Nonpublication Request and Certification under 35 .U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. [ ] Other:

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

[ ] Continuation [ ] Divisional [ ] Continuation-in- Part (CIP) of Prior Appl. No.

Prior Appl. information: Examiner: Group/Art Unit:

19. CORRESPONDENCE ADDRESS

[X] Customer Number or Bar Code Label ***24273*** or [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country	U.S.A.	Telephone	(954) 723-6449	Fax	(954) 723-3871
Name	Randi L. Dulaney		Registration Number (Attorney/Agent)		46,148
SIGNATURE	Randi L. Dulaney		Date		11/27/01

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 2388.00

Complete if Known	
Application No.	
Filing Date	
First Named Inventor	EATON, ERIC THOMAS ET AL.
Examiner Name	
Group Art Unit	
Attorney Docket No.	PT03730U

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 50-0757

Deposit Account Name: Motorola, Inc.

The Commissioner is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayment

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
				SUBTOTAL (1)	($) 740

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims	Fee from below	Fee Paid
Total Claims	72	-20* =	52	x 18 =	936.00
Independent Claims	11	-3* =	8	x 84 =	672.00
Multiple Dependent				280	

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) ($) 1608

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
105	130	205	65	Surcharge – late filing fee or oath	
127	50	227	25	Surcharge – late Provisional filing	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for ex parte Reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1440	218	720	Extension for reply within fourth month	
128	1960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1280	241	640	Petition to revive - unintentional	
142	1280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	123	50	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of IDS	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					

*Reduced by Basic Filing Fee Pd

SUBTOTAL (3) $ 40

SUBMITTED BY		Complete (if applicable)	
Name (Print)	Randi L. Dulaney	Registration No. (Attorney/Agent)	46,148
Signature	Randi L. Dulaney	Telephone:	(954) 723-6449
		Date	11/27/01

11-29-01

PTO/SB/05 (03-01)

A

Please type a plus sign (+) inside this box

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.:	PT03730U
First Inventor:	EATON, ERIC THOMAS ET AL.
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   a. [X] Newly executed (original or copy)
   b. [ ] Copy from a prior application (37 CFR 1.63(d))
   (for continuation/ divisional with Box 18 completed)
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   Signed statement attached deleting inventor(s) named in the prior application, ee 37 CFR 1.63(d)(2) and 1.33(b).
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      i. [ ] CD-ROM or CD-R (2 copies);
      ii. [ ] or paper
   c. [ ] Statements verifying identify of above copies

ACCOMPANYING APPLICATION PARTS

9. [X] Assignment Papers (cover sheet & document(s))
10. [ ] 37 CFR 3.73(b) Statement [ ] Power of Attorney (when there is an assignee)
11. [ ] English Translation Document (if applicable)
12. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
13. [ ] Preliminary Amendment
14. [X] Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. [ ] Certified Copy of Priority Document (if foreign priority is claimed)
16. [ ] Nonpublication Request and Certification under 35 .U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. [ ] Other:

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

[ ] Continuation [ ] Divisional [ ] Continuation-in- Part (CIP) of Prior Appl. No.

Prior Appl. information: Examiner: Group/Art Unit:

19. CORRESPONDENCE ADDRESS

[X] Customer Number or Bar Code Label ***24273*** or [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country	U.S.A.	Telephone	(954) 723-6449	Fax	(954) 723-3871
Name	Randi L. Dulaney		Registration Number (Attorney/Agent)		46,148
SIGNATURE	Randi L. Dulaney		Date		11/27/01

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 2388.00

Complete if Known	
Application No.	
Filing Date	
First Named Inventor	EATON, ERIC THOMAS ET AL.
Examiner Name	
Group Art Unit	
Attorney Docket No.	PT03730U

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 50-0757

Deposit Account Name: Motorola, Inc.

The Commissioner is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayment

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
				SUBTOTAL (1)	($) 740

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid
Total Claims	72	-20* =	52	x	18	=	936.00
Independent Claims	11	-3* =	8	x	84	=	672.00
Multiple Dependent					280		

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) ($) 1608

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
105	130	205	65	Surcharge – late filing fee or oath	
127	50	227	25	Surcharge – late Provisional filing	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for ex parte Reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1440	218	720	Extension for reply within fourth month	
128	1960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1280	241	640	Petition to revive - unintentional	
142	1280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	123	50	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of IDS	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					

*Reduced by Basic Filing Fee Pd

SUBTOTAL (3) $ 40

SUBMITTED BY		Complete (if applicable)	
Name (Print)	Randi L. Dulaney	Registration No. (Attorney/Agent)	46,148
Signature	Randi L. Dulaney	Telephone:	(954) 723-6449
		Date	11/27/01

SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

Background of the Invention

Field of the Invention

This invention relates in general to communication systems and in particular to communication systems incorporating capabilities to provide continuity between messaging clients.

Description of the Related Art

With the proliferation of the Internet, the way people communicate is changing. Electronic communication such as electronic mail (email), and real time electronic messaging (e.g. instant messaging and chat messaging) is quickly replacing traditional telephonic communication and handwritten letters. Real time electronic messaging allows the simultaneous access to a message or a plurality of messages by multiple account users, with each account user capable of inputting a message or a plurality of messages to a messaging session. Each inputted message is relayed to messaging clients operating on messaging devices (such as computers) of the other account users who have chosen to participate in that messaging session. The other session participants can respond with their own messages, which are likewise relayed to all the participating devices. These messages are typically text messages that are delivered to the intended recipient(s) of the message in a real time manner. However, these messages may be in a variety of different media formats or combinations thereof such as audio, animation, video, images, etc. A session history of the messages received and transmitted by all participants involved in the messaging session is typically maintained on the individual participants' devices and typically presented on the screen of the respective device in the form of a scrolling dialog. This text history constitutes one of the attributes of the look and feel of the real time electronic messaging experience.

There are currently several standard methods available for account users to participate in messaging communications. For example, personal instant messaging typically occurs between two individuals. An individual can establish a private chat room so

that multiple users can participate in a common on-line conversation. Participants gain access to the private chat room by accepting an invitation from the creator of the private chat room. Non-restricted public chat rooms are available to anyone interested in the topic being discussed by simply selecting the desired chat room descriptor on the account user's device. In addition to the non-restricted public chat rooms there are limited access public chat rooms. An example of one such restriction is the limiting of the number of account users allowed to participate in the chat room. Electronic gaming is available to participants who register and login to join at least one other participant in playing one or more games. Communication of participants' "moves" are made through electronic message communications in messaging sessions.

Each messaging session can have various types of session attributes such as session type, session connection info, participants, filter settings, colors, relative font sizes, etc. The account user can also have various types of preferences such as colors, relative font sizes, buddy lists, nicknames, and parental control settings. These are only a few examples of the attributes and preferences that can effect a messaging session.

Several different devices, such as personal computers, interactive broadcast receivers and mobile communication devices, can be utilized to participate in messaging communications. Although these different devices can be utilized to participate in a messaging communication they all do not have the same set of features and capabilities. For example, display size, support for different media types, and cost of sending messages can all be different for different devices. Some messaging service providers maintain the same user preference settings such as screen names, buddy list groups, electronic mailboxes, and parental control settings regardless of which device is used to access the service. By having this capability the service providers are providing continuity of user preferences from device to device, which simplifies the use of multiple devices in the messaging system.

In order to utilize real time electronic messaging, a device is pre-configured with, or the user installs, application client software distributed by a particular service provider. The client software connects to a message server for communication. To access the message server, via a logon procedure, the client sends the routing information (e.g. IP address and number of the port assigned to the client, mobile phone number) of the device being used, the account user's username, the account user's password, and the account user's current availability setting to the message server. The message server temporarily stores the routing and availability information for the account user's device. In response to the account user's

login information (username and password), the message server provides the messaging client with the account user's contact list. The message server then determines the presence and availability of the account users in that contact list. If the message server finds any of the contacts logged in (i.e. presence setting is online), it sends a message back to the messaging client on the account user's device with the presence and availability information for that account user. The message server also sends the account user's presence and availability information to the people that have the account user in their contact list. The account user can click on the name of a person in his/her contact list who is online, and a window is created in which the account user can enter a message. The account user enters a message and clicks "send" to communicate with that person. The other person gets the message and can respond. Messages between account users may be addressed directly to the account user's device or may be addressed to the username and sent via the message server.

The window that the session participants see on their respective messaging devices typically includes a scrolling dialog of the session history. Each participant's messages appear in this window on all participating devices. Messages can have different attributes such as message formatting, sender identification, timestamps and others. For example, messages related to a particular electronic game could contain graphics enhancing the "look and feel" of the electronic game for the participants.

When the messaging session is complete, the account users close the message window for that messaging session. When the account user signs off, his/her messaging client sends a message to the message server to terminate the account user's participation in the plurality of messaging sessions. The message server then sends an update of the account user's presence and availability information to the people that have the account user in their contact list to indicate the account user has signed off. Finally, the message server discards the routing and availability information for the account user's device.

Some messaging services support access of a single account from multiple devices. Further, some messaging services also support simultaneous login of devices on the same account. Still further, some messaging services utilize a resource extension to describe the device that is being utilized to communicate. For example an account user logging in with a mobile device can choose to use "mobile device" as their resource extension while logging into the same account from the home personal computer may utilize a resource extension of "home computer".

When using messaging services that allow access from multiple devices, an account user can log on with a first messaging device and engage in conversations with other account users and later log on with a second messaging device. For example, users of mobile devices would typically benefit if a messaging session in progress on a fixed network device could be continued on a mobile device. This would allow the account user to continue the messaging session when the account user is no longer in proximity to the fixed network device. In addition the account user would benefit if a messaging session that was in progress on a mobile device could be continued on a fixed network device that may have a superior user interface.

In order to switch to a different device with existing technology, the account user may have to cause the currently connected device to disconnect from the message server. The account user would then have to cause the second device to connect to the message server and login. Finally, the account user would have to re-initiate each messaging session (one-to-one, public chat, private chat, electronic game) that was in progress on the first device. The disadvantage of this method is the numerous manual operations required of the account user to change devices. A further disadvantage is the lack of messaging session continuity. For example, the second device will not have the session history that was available on the first device, and the second device may not be able to re-connect to chat rooms that restrict the number of active account users since another account user may have connected to the chat room after the account user's first device disconnected.

What is needed is a system and method for maintaining continuity between messaging clients.

Brief Description of the Drawings

The present invention will be described by way of exemplary embodiments, but not limitations, illustrated in the accompanying drawings in which like references denote similar elements, and in which:

FIG. **1** is an electronic block diagram of a messaging communication system, in accordance with the preferred embodiment of the present invention;

FIG. **2** illustrates client data for use within the messaging communication system of FIG. 1, in accordance with the preferred embodiment of the present invention;

FIGs. **3** and **4** illustrate more detail of the client data of FIG. **2**, in accordance with the preferred embodiment of the present invention;

FIGs. **5, 6**, and **7** are electronic block diagrams of various embodiments of a messaging device in which a messaging client of FIG. 1 operates;

FIG. **8** is an electronic block diagram of an alternate embodiment of a messaging communication system, in accordance with the preferred embodiment of the present invention;

FIGS. **9** to **12** are electronic block diagrams of various embodiments of the messaging communication system of FIGs. **1** and **8**, in accordance with the preferred embodiment of the present invention;

FIGs. **13** to **18** are flowcharts illustrating the operation of the messaging communication system of FIGs. 1 and **8**, in accordance with the preferred embodiment of the present invention;

FIG. **19** illustrates a message for use within the messaging communication system of FIGs. **1** and **8**, in accordance with the preferred embodiment of the present invention; and

FIGs. **20** to **24** are signaling flow diagrams illustrating the interaction between the elements of the messaging communication system of FIGs. 1 and **8**, in accordance with the preferred embodiment of the present invention.

Detailed Description Of The Preferred Embodiment(s)

As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention, which may be embodied in various forms. Therefore, specific structural and

functional details disclosed herein are not to be interpreted as limiting, but merely as a basis for the claims and as a representative basis for teaching one skilled in the art to variously employ the present invention in virtually any appropriately detailed structure. Further, the terms and phrases used herein are not intended to be limiting; but rather, to provide an understandable description of the invention.

Referring to FIG. **1**, an electronic block diagram of a messaging communication system **10** in accordance with the present invention is shown. As illustrated, the messaging communication system **10** preferably includes a plurality of messaging clients **12** for participation within a plurality of messaging sessions **24**. As illustrated, the plurality of messaging sessions **24** can include a messaging session **40** and/or a multiple user messaging session **19**. The plurality of messaging sessions **24**, for example, can include the communication of a plurality of electronic messages such as chat sessions, instant message sessions, and electronic mail, facilitating substantially real time communication among the plurality of messaging clients **12**. Similarly, the plurality of messaging sessions **24** can include communication of gaming messages for one or more gaming sessions (e.g. battleship, checkers, chess, tic tac toe and doom). It will be appreciated by one of ordinary skill in the art that the plurality of messaging sessions **24** can include any of the messaging sessions mentioned herein or an equivalent. Each of the plurality of messaging clients **12** such as a first messaging client **14** and a second messaging client **20** includes client software to interface within the messaging communication system **10**. The client software, for example, can include a software application for communication through an Internet service provider. Further, the client software can include a software application for participation in one or more electronic games offered by a gaming software provider. It will be appreciated by one of ordinary skill in the art that the client software can be any of those mentioned herein or an equivalent. Further, it will be appreciated by one of ordinary skill in the art that in accordance with the present invention, the interface capabilities of the client software can also be designed into client hardware of a messaging client. Each messaging client **26** of the plurality of messaging clients **12** further includes a client identifier **27**. For example, the first messaging client **14** includes a first client identifier **15** and the second messaging client **20** includes a second client identifier **21**. The client identifier **27** of the messaging client **26** is a unique identification within the messaging communication system **10** for directing messages to a particular messaging client. For example, the client identifier **27** can be an address of a mobile device or an IP address and number of the port of a fixed network

device. To communicate within at least one of the plurality of messaging sessions **24** the messaging client **26** establishes a communication connection **28**. For example, the first messaging client **14** establishes a first communication connection **16** for communication within at least one of the plurality of messaging sessions **24**. Similarly, the second messaging client **20** establishes a second communication connection **22** for communication within at least one of the plurality of messaging sessions **24**. It will be appreciated by one of ordinary skill in the art that the communication connection **28**, the first communication connection **16**, and the second communication connection **22** can be a physical connection, or alternatively can be a logical connection where the act of connecting and disconnecting is a logical one. Each messaging client **26** of the plurality of messaging clients **12** is operated by at least one account user **30**. The account user **30** is an individual who uses one or more messaging clients to communicate with other account users within the plurality of messaging sessions **24**. It will be appreciated by one of ordinary skill in the art that the account user **30** can communicate using one or more messaging clients. For example, a first account user **29** can establish communication within the plurality of messaging sessions **24** using the first messaging client **14**, and, in accordance with the present invention, also using the second messaging client **20**.

Each messaging client **26** preferably includes a plurality of client data **25**. The plurality of client data **25** includes data associated with the messaging client **26** and data associated with each messaging session for which the messaging client **26** is currently participating, has participated in, or plans to participate in. The plurality of client data **25** can be divided up into one or more client data portions **18** as illustrated in FIG. **2**. The first messaging client **14** includes a first client data **17** and the second messaging client **20** includes a second client data **23**. FIG. **2** illustrates the plurality of client data **25** included within the messaging client **26** of FIG. **1**. It will be appreciated by one of ordinary skill in the art that the plurality of client data **25** as illustrated in FIG. **2** can be the first client data **17** or the second client data **23**. As illustrated, the plurality of client data **25** preferably includes a client version identifier (not shown), an account identifier **31**, a server identifier **32**, an authentication key **33**, a plurality of contact data **34**, a plurality of user preferences **35**, and a plurality of session data **36**. It will be appreciated by one of ordinary skill in the art that the plurality of client data **25** can include any of the client data mentioned herein or an equivalent.

The client version identifier is preferably the name and version or other similar indication of the messaging client being used. The account identifier **31** is preferably a user name or other identification of the account user **30** currently using the messaging client **26**. In an embodiment of the present invention in which a message server is utilized to manage the plurality of messaging sessions **24**, the server identifier **32** identifies the message server. For example, the server identifier **32** can be a wireless address, an IP (internet protocol) address, or an IP address accompanied by a number of the port assigned to the message server. The authentication key **33** preferably includes a code that is used to authenticate the account user **30** to the messaging communication system **10**. For example, the authentication key **33** could be derived from a password known only to the account user **30** and the messaging communication system **10**. The plurality of contact data **34** is a listing of information relating to the various account users in which the account user **30** currently using the messaging client **26** communicates, plans to communicate, or has communicated with in the past. For example, the plurality of contact data **34** can be a "buddy list" for the account user **30**. The plurality of contact data **34** preferably includes a plurality of account information **37** for each of a plurality of accounts. For example, the plurality of account information **37** for an Nth account can include an Nth account identifier **38** and further can include an Nth account contact information **39** associated with the Nth account identifier **38**. The Nth account contact information **39**, for example, can include Nth account user presence, Nth account user availability, Nth account phone number, Nth account mailing address, or Nth account user preferred communication means. It will be appreciated by one of ordinary skill in the art that the Nth account contact information can be any of the contact information mentioned herein or an equivalent. The plurality of account information **37** can further include, for example, billing information, favorite topics, associates, group lists, age, obscenity rating, and optional services. It will be appreciated by one of ordinary skill in the art that the plurality of account information **37** can include any of the information mentioned herein or an equivalent. In one embodiment of the present invention, each of the plurality of messaging clients **12** of FIG. **1** operates using at least one account. Further, each account user can have one or more accounts. For example, the account user **30** can have a business account and a personal account both operated using the messaging client **26**.

The plurality of user preferences **35** defines certain attributes settable by the account user **30** for communicating within the plurality of messaging sessions **24** using the messaging client **26**. The plurality of user preferences **35**, for example, can include text font

attributes, filter settings, blocking settings, screen names per account identifier, alert settings per screen name, buddy list groups, electronic mailboxes, electronic voice mail, and parental control settings. It will be appreciated by one of ordinary skill in the art that the plurality of user preferences **35**, in accordance with the present invention, can include any of those preferences mentioned herein or an equivalent.

The plurality of session data **36** included within the plurality of client data **25** contains information relating to each of the plurality of messaging sessions **24** for which the account user **30** is currently participating, has previously participated, or plans to participate in, using the messaging client **26**. FIG. **3** illustrates a preferred embodiment of the plurality of session data **36** in accordance with the present invention. As illustrated in FIG. **3**, for each messaging session **40**, the plurality of session data **36** includes a session identifier **41**, a session priority **42**, a plurality of session preferences **43**, a plurality of session participants **44**, and a session history **45**. It will be appreciated by one of ordinary skill in the art that the plurality of session data **36**, in accordance with the present invention, can include any of the session data mentioned herein or an equivalent.

Preferably, the session identifier **41** identifies the messaging session **40** of the plurality of messaging sessions **24**. In one embodiment, the messaging session **40** is assigned the session priority **42**. The session priority **42** determines or identifies the priority of the messaging session **40** within the plurality of messaging sessions **24** for which the account user **30** is currently participating. The session priority **42** can be set manually by the account user **30** or through a predetermined algorithm in the messaging client **26** taking into account the various characteristics of the messaging session **40** and the messaging client **26**. The session priority **42** can for example, specify a stacking order (e.g.: order of display window layering for viewing) of the messaging windows within the messaging client **26**. Alternatively, when the messaging client **26** operates within a messaging device capable of only displaying one session at a time, the session priority **42** can identify the session to display at any given point in time.

The plurality of session preferences **43** defines certain attributes settable by the account user **30** for communicating within the messaging session **40** using the messaging client **26**. The plurality of session preferences **43**, for example, can include text font attributes, filter settings, blocking settings, alert settings, screen names, buddy list groups, electronic mailboxes, parental control settings, an alert option such as alert on receipt of a new real time message or no alert on receipt of a new real time message, guaranteed or non-

guaranteed delivery, timeout setting for participation in the messaging session **40**, and number of real time messages to retain in the session history **45** and to display. It will be appreciated by one of ordinary skill in the art that the plurality of session preferences **43**, in accordance with the present invention, can include any of the session preferences mentioned herein or an equivalent. In one embodiment, the plurality of session preferences **43** includes a session timer. (not shown) The session timer is a preset time period upon which the messaging client **26** is active within the messaging session **40**. The plurality of session preferences **43** in one embodiment is transferred to the messaging client **26** when the messaging session **40** is activated. Alternatively, the account user **30** manually can set the plurality of session preferences **43**. Alternatively, a default set of session preferences can be preprogrammed in the messaging client **26** to enhance the efficiency of managing the participation in the plurality of messaging sessions **24**. The plurality of session participants **44** includes each account user participating in the messaging session **40** along with the account identifier for each participating account user.

FIG. **4** illustrates a preferred embodiment of the session history **45** of FIG. **3** in accordance with the present invention. As illustrated in FIG. **4**, the session history **45** preferably includes a plurality of session messages **61** in which each session message **46** is associated with a plurality of message information including an account identifier **47** for an associated message originator such as the account user **30**. The associated originator for example is one of the plurality of session participants **44**. Each session message **46** further can be associated with a message timestamp **48** identifying the time that the session message **46** was entered into the messaging session **40** by the message originator. The session history **45** is further composed of at least one session portion **49**. Each session portion **49** comprises at least one session message **46** and associated information. It will be appreciated by one of ordinary skill in the art that although the session portion **49** is illustrated as a portion of the session history **45**, alternatively, in accordance with the present invention, the session portion **49** can be any portion of the plurality of session data **36**.

FIG. **5** is an electronic block diagram of one embodiment of a messaging device in which a messaging client of FIG. **1** operates. Specifically, FIG. **5** illustrates a fixed network device **50**. The fixed network device **50** can operate for example on a local area network (LAN) or a wide area network (WAN) or a combination of both. The fixed network device **50** can be one of a plurality of spatially co-located computers which are typically located within a room, building or campus of buildings and are sharing common resources and

communicating with each other on a computer network in a manner well known to one of ordinary skill in the art. Typical resources shared are files on a file server, printers on a print server, and electronic message (email) services on an email server. The fixed network device **50** can operate on a network that uses a physical network such as ARCNET, Ethernet, Token-ring, Local Talk or other network media to connect the computers, which represent wired network nodes into the network. The fixed network device **50** can operate on a LAN that employs any one of a number of networking protocols, such as TCP/IP (Transmission Control Protocol/Internet Protocol), AppleTalk™, IPX/SPX (Inter-Packet Exchange/Sequential Packet Exchange), Net BIOS (Network Basic Input Output System) or any other packet structures to enable the communication among the devices and/or between the devices and the shared resources. Further the fixed network device **50** can operate on a WAN that uses a different physical network media such as X.25, Frame Relay, ISDN, Modem dial-up or other media to connect other computers or other local area networks. In the following description, the term "fixed network device" includes any of the messaging devices operating as described above or an equivalent.

As illustrated, the fixed network device **50** comprises a timing clock **52**, a central processing unit **53**, an electronic memory preferably in the form of a random access memory (RAM) **54** and/or a read only memory (ROM) **55**, and a mass storage element (e.g., a disk drive or the like) **56**. In one embodiment, the fixed network device **50** includes a memory interconnect **57** for operatively connecting a memory storage device **58** to the fixed network device **50**. The memory interconnect **57** can, for example, comprise a structure for physically engaging external contacts on the memory storage device **58** so that the memory storage device **58** is directly connected to the fixed network device **50**. It will be appreciated by one of ordinary skill in the art that the memory interconnect **57** can also be a wireless connection such as an infrared, Bluetooth or radio frequency interface. When the memory interconnect **57** is connected to the memory storage device **58**, the fixed network device **50** can access a plurality of memory information such as the plurality of client data **25** from the memory storage device **58**.

The fixed network device **50** further preferably comprises a display driver **59**, a general I/O interface or data port **60**, and a user interface port **62** that accommodates a user interface **64** including any number of input means for general information entry. In the preferred embodiment, the user interface **64**, e.g., a keyboard **66**, a "mouse," **68**, a pen or puck activated tablet (not shown), a trackball **70**, an audio activated command recognition

processor **72**, or the like, allows a device user to enter and manipulate information using a user input **88**. After information is entered, it may be communicated to a wired messaging system **89** via a conventional modem **74** or the like. Preferably, the fixed network device **50** also includes an Ethernet connection **76** for communicating to the wired messaging system **89** or for communicating through either a conventional cable modem **78** to a cable headend, or a (Digital Subscriber Line) DSL connection **80** to the wired messaging system **89**. The fixed network device **50** can be changed from an active to an inactive state or from an inactive state to an active state through the user input **88** to the power circuit **82**. The power circuit **82** can be operated manually via the user input **88** directly to the power circuit **82**, the user input **88** to the user interface **64,** or alternatively automatically via the programming of the CPU **53**.

In a preferred embodiment of the present invention, the fixed network device **50** of FIG. **5** includes a fixed messaging client **84**. It will be appreciated by one of ordinary skill in the art that the fixed messaging client **84** can be the first messaging client **14**, the second messaging client **20**, or any other of the plurality of messaging clients **12** of FIG. **1**. The fixed network device **50** performs messaging functions within the fixed messaging client **84** using a plurality of messages stored in the electronic memory of the fixed network device **50**. The fixed messaging client **84** may be hard coded or programmed into the fixed network device **50** during manufacturing, may be programmed over-the-air upon customer subscription, or may be a downloadable application. It will be appreciated that other programming methods can be utilized for programming the fixed messaging client **84** into the fixed network device **50**. It will be further appreciated by one of ordinary skill in the art that the fixed messaging client **84** can be hardware circuitry within the fixed network device **50**.

Preferably the fixed messaging client **84** automatically updates a CRT **86** when a new message has been sent or received by sending a command to the display driver **59**. This allows the message to be updated while the device user is reading it without disturbing the CRT **86**. The fixed messaging client **84** uses the plurality of client data **25** stored in the electronic memory or stored in the memory storage device **58** to perform functions relating to various received and/or sent messages. It will be appreciated by one of ordinary skill in the art that fixed networked devices having software-programming capabilities may include client data that is specialized and personalized such as the plurality of user preferences **35** including display options and screens for each account user, or similarly may include the

plurality of session preferences **43** for each messaging session **40.** Alternatively, fixed networked devices that do not include software-programming capabilities may include the plurality of client data **25** including the plurality of user preferences **35** that are standard, pre-defined display options and screens for the plurality of messaging sessions **24.**

The plurality of user preferences **35** of the plurality of client data **25** used by the fixed messaging client **84** further includes various alert options. In one embodiment, the fixed messaging client **84** notifies the CPU **53** to send a command to an alert circuit (not shown) when a new message is received. In another embodiment, the fixed messaging client **84** notifies the CPU **53** to send a command to the alert circuit when an unread message is to be deleted from the memory. Alternatively, no alert may be sent when a new message is received and stored in the memory. It will be appreciated by one of ordinary skill in the art that other alerting schemes are within the scope of the present invention. Further, the CPU **53**, in response to the user input **88** to the user interface **64** through to the user interface port **62**, such as a device user depressing a button or series of buttons, or in response to receipt of a message initiates an input signal to the fixed messaging client **84**. The fixed messaging client **84**, in response to the input signal, accesses a plurality of messages stored in the electronic memory for use in operation of the fixed messaging client **84**.

Preferably, the fixed messaging client **84** includes a client profile **85**. The client profile **85** includes information regarding the capabilities and limitations of the fixed messaging client **84** and also of the fixed network device **50**. For example, the client profile **85** can include indication of the media supported by the fixed messaging client **84** (e.g. audio, video), indication of which features are supported by the fixed messaging client **84**, device type, device display, device battery life, device battery capacity, device processing power, and access to alternate networks. It will be appreciated by one of ordinary skill in the art that the client profile **85** can include any of those mentioned above in any combination or an equivalent.

In accordance with the present invention, the fixed messaging client **84** includes software capability for transferring all or a portion of the plurality of client data **25** to one or more other messaging clients for use by the other messaging client to participate within one or more of the plurality of messaging sessions **24**. The fixed messaging client **84**, in accordance with the present invention, further includes software capability for receiving all or a portion of the plurality of client data **25** from at least one other messaging client to participate within one or more of the plurality of messaging sessions **24**. As illustrated in

FIG. **5**, the software capability for transferring and/or the capability for receiving the plurality of client data **25** can be incorporated into the fixed messaging client **84**, or alternatively can be contained within a separate data transfer application **83**. The data transfer application **83**, for example can be a third party software add-on that is compatible with existing messaging software applications (e.g. the fixed messaging client **84**) already programmed into the fixed network device **50**. Maintaining the data transfer software on a separate data transfer application **83** minimizes incorporation timeframes and also the cost of upgrading the fixed network device **50** to include this feature.

FIG. **6** is an electronic block diagram of one embodiment of a messaging device in which a messaging client of FIG. **1** operates. Specifically, FIG. **6** illustrates a mobile device **90**. It will be appreciated by one of ordinary skill in the art that the mobile device **90** in accordance with the present invention, can be a mobile cellular telephone, a mobile radio data terminal, a mobile cellular telephone having an attached data terminal, or a two way pager, such as the "Pagewriter 2000X" manufactured by Motorola Inc. of Schaumburg, Illinois. In the following description, the term "mobile device" refers to any of the messaging devices mentioned above or an equivalent.

As illustrated in FIG. **6**, the mobile device **90** includes a first antenna **92**, a second antenna **94**, a receiver **96**, a transmitter **98**, a clock **100**, a processor **102**, a device memory **104**, a device memory interconnect **105**, a device alert circuit **106**, a device display **108**, a device user interface **110** and a mobile messaging client **112**.

The first antenna **92** intercepts transmitted signals from a wireless messaging system **114**. It will be appreciated by one of ordinary skill in the art that the wireless messaging system **114**, in accordance with the present invention, can function utilizing any wireless RF channel, for example, a one or two-way pager channel, a mobile cellular telephone channel, or a mobile radio channel. Similarly, it will be appreciated by one of ordinary skill in the art that the wireless messaging system **114** can function utilizing other types of communication channels such as infrared channels. In the following description, the term "wireless messaging system" refers to any of the wireless messaging systems mentioned above or an equivalent.

The first antenna **92** is coupled to the receiver **96**, which employs conventional demodulation techniques for receiving the communication signals transmitted by the wireless messaging system **114**. Coupled to the receiver **96**, is the processor **102** utilizing conventional signal-processing techniques for processing received messages. Preferably, the

processor **102** is similar to the MC68328 micro-controller manufactured by Motorola, Inc. of Schaumburg, Illinois. It will be appreciated by one of ordinary skill in the art that other similar processors can be utilized for the processor **102**, and that additional processors of the same or alternative type can be utilized as required to handle the processing requirements of the processor **102**. The processor **102** decodes an address in the demodulated data of the received message, compares the decoded address with one or more addresses **115** stored in an address memory **116** of the device memory **104**; and when a match is detected, proceeds to process the remaining portion of the received message.

To perform the necessary functions of the mobile device **90**, the processor **102** is coupled to the device memory **104**, which preferably includes a random access memory (RAM), a read-only memory (ROM), and an electrically erasable programmable read-only memory (EEPROM)(not shown). The device memory **104** includes the address memory **116**, a message memory **118**, and a client data memory **120**.

Once the processor **102** has processed a received message, it stores the decoded message in the message memory **118** of the device memory **104**. It will be appreciated by one of ordinary skill in the art that the message memory **118**, in accordance with the present invention, can be a voicemail box or a group of memory locations in a data storage device. In the following description, the term "message memory" refers to any of the memory means mentioned above or an equivalent. Preferably, when the received message is a message for participation in one of the plurality of messaging sessions **24**, for example the session message **46** of the messaging session **40**, the processor **102** stores the decoded message in the client data memory **120**.

In one embodiment, the mobile device **90** includes the device memory interconnect **105** for opcratively connecting the memory storage device **58** to the mobile device **90**. The device memory interconnect **105** can, for example, comprise a structure for physically engaging external contacts on the memory storage device **58** so that the memory storage device **58** is directly connected to the mobile device **90**. It will be appreciated by one of ordinary skill in the art that the device memory interconnect **105** can also be a wireless connection such as an infrared, Bluetooth or radio frequency interface. When the device memory interconnect **105** is connected to the memory storage device **58**, the mobile device **90** can access a plurality of memory information such as the plurality of client data **25** from the memory storage device **58**.

The client data memory **120** includes the plurality of client data **25** as described previously in FIGs. **2** to **4**. The client data memory **120** includes a memory slot **122** for each messaging session **40** in which the mobile device **90** has subscribed. The memory slot **122**, in accordance with the present invention, includes the plurality of session data **36** as illustrated in FIG. **2**. The plurality of session messages **61** associated with the messaging session **40** is stored together in chronological order in the memory slot **122** similar to the session history **45** of FIG. **4**. The memory slot **122** is allocated a fixed amount of memory for storing associated plurality of session messages **61**. The memory slot **122** holds multiple session messages in a single message memory slot. Any session message **46** received for the messaging session **40** along with its associated session message information is appended at the end of the plurality of session messages **61** already in the memory slot **122**. If the amount of allocated memory for the memory slot **122** is exceeded, the older session messages are deleted. It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, the client data memory **120** and associated operation herein described, in accordance with the present invention, can be included in the fixed network device **50** of FIG. **5**, a cable box **136** of FIG. **7** or any other messaging device in which the messaging client **26** operates.

Upon receipt and processing of a message, the processor **102** preferably generates a command signal to the device alert circuit **106** as a notification that the message has been received and stored. The device alert circuit **106** can include a speaker (not shown) with associated speaker drive circuitry capable of playing melodies and other audible alerts, a vibrator (not shown) with associated vibrator drive circuitry capable of producing a physical vibration, or one or more LEDs (not shown) with associated LED drive circuitry capable of producing a visual alert. It will be appreciated by one of ordinary skill in the art that other similar alerting means as well as any combination of the audible, vibratory, and visual alert outputs described can be used for the device alert circuit **106**.

Upon receipt and processing of a message, the processor **102** preferably also generates a command signal to the device display **108** to generate a visual notification of the receipt and storage of the message. When the device display **108** receives the command signal from the processor **102** that the message has been received and stored in the device memory **104**, a message indication is displayed. The message indication, for example can be the activation of one of a plurality of message icons on the device display **108**. The device display **108** can be, for example, a liquid crystal display utilized to display text. It will be

appreciated by one of ordinary skill in the art that other similar displays such as cathode ray tube displays can be utilized for the device display **108**.

The mobile device **90** preferably further includes the clock **100**. The clock **100** provides timing for the processor **102**. The clock **100** can include the current time for use in the operation of the mobile device **90**. The clock **100** also provides a source for timing of feature enhancements such as active and inactive periods of operation or periods of alerting.

In a preferred embodiment, the mobile device **90** includes the mobile messaging client **112**. It will be appreciated by one of ordinary skill in the art that the mobile messaging client **112** can be the first messaging client **14**, the second messaging client **20**, or any other of the plurality of messaging clients **12** of FIG. **1**. The mobile messaging client **112** performs messaging functions within the mobile device **90** using the plurality of client data **25** stored in the client data memory **120**. The mobile messaging client **112** may be hard coded or programmed into the mobile device **90** during manufacturing, may be programmed over-the-air upon customer subscription, or may be a downloadable application. It will be appreciated that other programming methods can be utilized for programming the mobile messaging client **112** into the mobile device **90**. It will be further appreciated by one of ordinary skill in the art that the mobile messaging client **112** can be hardware circuitry within the mobile device **90**. Preferably the mobile messaging client **112** automatically updates the device display **108** when a new session message has been sent or received. This allows the session history **45** to be updated while the account user **30** is reading it without disturbing the device display **108**. The mobile messaging client **112** uses the plurality of client data **25** stored in the electronic memory or stored in the memory storage device **58** to perform functions relating to various received and/or sent session messages. It will be appreciated by one of ordinary skill in the art that mobile devices having software-programming capabilities may include specialized and personalized display options and screens for each messaging session **40**. Alternatively, mobile devices that do not include software-programming capabilities may include standard, pre-defined display options and screens for the plurality of messaging sessions **24**. In accordance with the present invention, the display options for the plurality of messaging sessions **24** in which the messaging client **26** within the mobile device **90** is participating can be included in the plurality of session preferences **43** for each messaging session **40**or alternately, the display options can be stored independently within the plurality of user preferences **35** of the plurality of client data **25**

The mobile messaging client **112** further operates using various alert options. In one embodiment, the mobile messaging client **112** notifies the processor **102** to send a command to the device alert circuit **106** when a new session message is added to the memory slot **122** of the client data memory **120** for the messaging session **40**. In another embodiment, the mobile messaging client **112** notifies the processor **102** to send a command to the device alert circuit **106** when an unread session message is to be deleted from the memory slot **122**. Alternatively, no alert may be sent when a new session message is received and stored in the client data memory **120**. It will be appreciated by one of ordinary skill in the art that other alerting schemes are within the scope of the present invention. In accordance with the present invention, the alert options for the plurality of messaging sessions **24** in which the messaging client **26** within the mobile device **90** is participating can be included in the plurality of session preferences **43** for each messaging session **40** or alternately, the alert options can be stored independently within the plurality of user preferences **35** of the plurality of client data **25**.

In accordance with the present invention, the mobile messaging client **112** includes software capability for transferring all or a portion of the plurality of client data **25** to at least one other messaging client for use by the other messaging client to participate within one or more of the plurality of messaging sessions **24**. The mobile messaging client **112**, in accordance with the present invention, further includes software capability for receiving all or a portion of the plurality of client data **25** from another messaging client to participate within one or more of the plurality of messaging sessions **24**. As illustrated in FIG. **6**, the software capability for transferring and receiving client data can be incorporated into the mobile messaging client **112** or alternatively contained within a separate data transfer application **83**. The data transfer application **83**, for example can be a third party software add-on that is compatible with existing messaging software applications (e.g. the mobile messaging client **112**) already programmed into the mobile device **90**. Maintaining the data transfer software on a separate data transfer application **83** minimizes incorporation timeframes and also the cost of upgrading a messaging device to include this feature.

Preferably, the device user interface **110** is coupled to the processor **102**. The device user interface **110** can be one or more buttons used to generate a button press, a series of button presses, a voice response from the device user, or some other similar method of manual response initiated by the device user (such as the account user **30**) of the mobile device **90**. The processor **102**, in response to the device user interface **110**, such as a device

user depressing a button or series of buttons, or in response to receipt of a session message, initiates an input signal to the mobile messaging client **112**. The mobile messaging client **112**, in response to the user input signal, accesses the plurality of session messages **61** stored in the client data memory **120** for use in operation of the mobile messaging client **112**.

Preferably, the mobile messaging client **112** includes the client profile **85**. The client profile **85** includes information regarding the capabilities and limitations of the mobile messaging client **112** and also of the mobile device **90**. For example, the client profile **85** can include indication of the media supported by the mobile messaging client **112** (e.g. audio, video), indication of which features are supported by the mobile messaging client **112**, device type, device protocol usage, device display, device battery life, device battery capacity, device processing power, and access to alternate networks. It will be appreciated by one of ordinary skill in the art that the client profile **85** can include any of those mentioned above in any combination or an equivalent.

The transmitter **98** is coupled to the processor **102** and is responsive to commands from the processor **102**. When the transmitter **98** receives a command from the processor **102**, the transmitter **98** sends a signal via the second antenna **94** to the wireless messaging system **114**.

In an alternative embodiment (not shown), the mobile device **90** includes one antenna performing the functionality of the first antenna **92** and the second antenna **94**. Further, the mobile device **90** alternatively includes a transceiver circuit performing the functionality of the receiver **96** and the transmitter **98**. It will be appreciated by one of ordinary skill in the art that other similar electronic block diagrams of the same or alternate type can be utilized for the mobile device **90** to handle the requirements of the mobile device **90**.

The mobile device **90** can be changed from an active state to an inactive state or from an inactive state to an active state through a user input to the power circuit **134**. The power circuit **134** can be operated manually via the user input to the power circuit **134**, the user input to the user interface **110**, or alternatively automatically via the programming of the processor **102**.

FIG. **7** is an electronic block diagram of one embodiment of a messaging device in which a messaging client of FIG. **1** operates. Specifically, FIG. **7** illustrates an interactive broadcast receiver such as the cable box **136**. The cable box **136** preferably allows network operators to deploy a wide range of interactive television broadcast services and applications

on their networks. Further the cable box **136** preferably offers cable operators a combined, all-in-one, hardware and software solution for deploying interactive television services on their networks, thereby creating the ability for real time electronic message communication using television sets and networks.

As illustrated in FIG. **7**, the cable box **136** preferably includes a controller **138** for controlling the operation of the cable box **136**. Preferably, the controller **138** is similar to the MC68328 micro-controller manufactured by Motorola, Inc. of Schaumburg, Illinois. It will be appreciated by one of ordinary skill in the art that other similar processors can be utilized for the controller **138**, and that additional processors of the same or alternative type can be utilized as required to handle the processing requirements of the controller **138**. Preferably, the controller **138** is programmed to function with the cable messaging client **140.** The cable messaging client **140**, in accordance with the present invention, operates similarly to the fixed messaging client **84** of FIG. **5** and the mobile messaging client **112** of FIG. **6** as described above. It will be appreciated by one of ordinary skill in the art that the cable messaging client **140** illustrated in FIG. **7** can be the first messaging client **14**, the second messaging client **20**, or any other of the plurality of messaging clients **12** of FIG. **1**.

In accordance with the present invention, the cable messaging client **140** includes software capability for transferring all or a portion of the plurality of client data **25** to at least one other messaging client for use by the other messaging client to participate within one or more of the plurality of messaging sessions **24**. The cable messaging client **140** further includes software capability for receiving all or a portion of the plurality of client data **25** from another messaging client to participate within one or more of the plurality of messaging sessions **24**. As illustrated in FIG. **7**, the software capability for transferring and receiving client data can be incorporated into the cable messaging client **140** or alternatively contained within a separate data transfer application **83**. The data transfer application **83**, for example can be a third party software add-on that is compatible with existing messaging software applications (e.g. the cable messaging client **140**) already programmed into the cable box **136**. Maintaining the data transfer software on a separate data transfer application **83** minimizes incorporation timeframes and also the cost of upgrading a device to include this feature.

Preferably, the cable messaging client **140** includes the client profile **85**. The client profile **85** includes information regarding the capabilities and limitations of the cable messaging client **140** and of the cable box **136**. For example, the client profile **85** can

include indication of the media supported by the cable messaging client **140** (e.g. audio, video), indication of which features are supported by the cable messaging client **140**, device type, device protocol usage, device display, device battery life, device battery capacity, device processing power, and access to alternate networks. It will be appreciated by one of ordinary skill in the art that the client profile **85** can include any of those mentioned above in any combination or an equivalent.

The cable box **136** further includes an up/down converter **142** coupled to the controller **138** for communicating with a cable headend. To perform the necessary functions of the cable box **136**, the controller **138** is further coupled to a cable box memory **144**, which preferably includes a cable box random access memory (RAM) **146**, a cable box read-only memory (ROM) **148**, and an electrically erasable programmable read-only memory (EEPROM)(not shown). The cable box memory **144** of the cable box **136** preferably includes the client data memory **120** as previously described and illustrated in FIG. **6**.

In one embodiment, the cable box **136** includes a cable box memory interconnect **149** for operatively connecting the memory storage device **58** to the cable box **136**. The cable box memory interconnect **149** can, for example, comprise a structure for physically engaging external contacts on the memory storage device **58** so that the memory storage device **58** is directly connected to the cable box **136**. It will be appreciated by one of ordinary skill in the art that the cable box memory interconnect **149** can also be a wireless connection such as an infrared, Bluetooth or radio frequency interface. When cable box memory interconnect **149** is connected to the memory storage device **58**, the cable box **136** can access a plurality of memory information such as the plurality of client data **25** from the memory storage device **58**.

Further coupled to the controller **138** is a first cable box I/O **150** for driving a remote control transceiver **152** and further for driving a radio frequency transceiver **154** connected to a cable box antenna **156**. A second cable box I/O **158** for inputs from a user input via a cable box user interface **160** is further coupled to the controller **138**. Also coupled to the controller **138** are an audio driver **162** and a radio frequency/video driver **164** for communicating with a television **166**.

The cable box **136** can be changed from an active state to an inactive state or from an inactive state to an active state through a user input to the cable box power circuit **168**. The cable box power circuit **168** can be operated manually via the user input to the cable box

power circuit **168**, the user input to the cable box user interface **160** or alternatively automatically via the programming of the controller **138**.

FIG. **8** is an electronic block diagram of an alternate embodiment of a messaging communication system **170** in accordance with the present invention. The messaging communication system **170** includes the plurality of messaging clients **12** and a message server **172**.

The message server **172** manages the communication of a plurality of electronic messages among the plurality of messaging clients **12**, facilitating substantially real time communication among the plurality of messaging clients **12** within the messaging communication system **170**. The message server **172** provides numerous services to manage the plurality of messaging sessions **24**. The message server **172** also offers various options to the plurality of session participants **44** to reduce cost or enhance the features of the plurality of messaging sessions **24**.

Each messaging client **26** of the plurality of messaging clients **12** such as the first messaging client **14** and the second messaging client **20** includes client software to interface within the messaging communication system **10**. It will be appreciated by one of ordinary skill in the art that in accordance with the present invention, the interface capabilities of the client software can also be designed into client hardware of a messaging client. Each messaging client **26** of the plurality of messaging clients **12** further includes the client identifier **27**. For example, the first messaging client **14** includes the first client identifier **15** and the second messaging client **20** includes the second client identifier **21**. The client identifier **27** of the messaging client **26** is a unique identification within the messaging communication system **170** for providing individualized messages to be directed to a particular messaging client. For example, the client identifier **27** can be an address of the mobile device **90** or an IP address and number of the port of the fixed network device **50**. To communicate within the messaging communication system **170**, the messaging client **26** establishes the communication connection **28** via the message server **172**. For example, the first messaging client **14** establishes the first communication connection **16** via the message server **172** for communication within at least one of the plurality of messaging sessions **24**. Similarly, the second messaging client **20** establishes the second communication connection **22** via the message server **172** for communication within at least one of the plurality of messaging sessions **24**. It will be appreciated by one of ordinary skill in the art that the communication connection **28**, the first communication connection **16**, and the second

communication connection **22** can be a physical connection, or alternatively can be a logical connection where the act of connecting and disconnecting is a logical one. Each of the plurality of messaging clients **14** belongs to the account user **30**. The account user **30** is an individual who uses one or more of the plurality of messaging clients **12** to communicate with other account users within the plurality of messaging sessions **24**. It will be appreciated by one of ordinary skill in the art that the account user **30** can communicate using one or more of the plurality of messaging clients **12**. For example, the first account user **29** can establish communication within the plurality of messaging sessions **24** using the first messaging client **14**, and, in accordance with the present invention, also using the second messaging client **20**.

Each messaging client **26** preferably includes the plurality of client data **25**. The plurality of client data **25** includes data associated with the messaging client **26** and data associated with each messaging session for which the messaging client **26** is currently participating, has participated in, or plans to participate in. The first messaging client **14** includes the first client data **17** and the second messaging client **20** includes the second client data **23**.

The message server **172** includes a server processor **174** and a server memory **176**. The server processor **174** utilizes conventional signal processing techniques for processing received electronic messages. Preferably, the server processor **174** is similar to the MC68328 micro-controller manufactured by Motorola, Inc. of Schaumburg, Illinois. It will be appreciated that other similar processors can be utilized for the server processor **174**, and that additional processors of the same or alternative type can be added as required to handle the processing requirements of the server processor **174**.

To perform the necessary functions of the message server **172**, the server processor **174** is coupled to the server memory **176**, which preferably includes a random access memory (RAM), a read-only memory (ROM), an electrically erasable programmable read-only memory (EEPROM), and/or a magnetic storage memory (for example a hard drive). The server memory **174** preferably includes a messaging sessions data memory **178**, a messaging clients data memory **180**, and a server data memory **182**. The messaging sessions data memory **178** stores the plurality of session data for all messaging sessions for which the message server **172** is managing. The plurality of session data stored for each messaging session for which the message server **172** is managing is similar to the plurality of session data **36** as illustrated in FIGs. **3** and **4** and described previously. The messaging clients data

memory **178** stores the plurality of client data **25** for each of the messaging clients **26** that have established the communication connection **28** with the message server **172**. For example, the plurality of client data **25** can include the type of device being utilized by each messaging client **26**, the account user **30** utilizing each messaging client **26**, the plurality of user preferences **35** for each messaging client **26**, and the messaging sessions for which each messaging client **26** is participating. It will be appreciated by one of ordinary skill in the art that the messaging client data memory **178** can store any of the plurality of client data **25** mentioned herein or an equivalent. The server memory **176** further includes the server data memory **182**. The server data memory **182** preferably includes a server identifier **184** for the message server **172**. The server identifier **184** can be, for example, a unique selective call address in the wireless messaging system **114**. Alternatively, the server identifier **184** can be an IP address, or an IP address and associated number of the port assigned to the message server **172** of the wired messaging system **89**. It will be appreciated by one of ordinary skill in the art that the server identifier **184** can be one mentioned herein or an equivalent. The server identifier **184** enables the communication between the plurality of messaging clients **12** and the message server **172** using the communication connections such as the communication connection **28**, the first communication connection **16**, and the second communication connection **22**. The server data memory **182** also preferably includes a server profile **186**. The server profile **186** includes information regarding the capabilities of the message server **176**. For example, the server profile **186** can include server processing power, server client capability, server messaging session capability, and server access to secondary networks. It will be appreciated by one of ordinary skill in the art that the server profile **186** can include any of those mentioned above in any combination or an equivalent.

FIG. **9** is an electronic block diagram of one embodiment of the messaging communication system **10, 170** of FIGs. **1** and **8** respectively. Specifically, FIG. **9** illustrates an embodiment of the present invention in which the messaging communication system **10, 170** is the wireless messaging system **114** of FIG. **6**.

The wireless messaging system **114**, as illustrated in FIG. **9** includes a message input device for initiating messages into the wireless messaging system **114**. The message input device can be, for example, a telephone **204**, a computer **206**, a desktop messaging unit **208**, or the message server **172** connected through a conventional public switched telephone network (PSTN) **210** through a plurality of telephone links **212** to a wireless system

controller **214**. The telephone links **212**, for example, can be a plurality of twisted wire pairs, a fiber optic cable, or a multiplexed trunk line.

The wireless system controller **214** is coupled to and oversees the operation of at least one radio frequency (RF) transmitter **216** and at least one radio frequency (RF) receiver **218** through one or more communication links **220**. The communication links **220** typically are twisted pair telephone wires, and additionally can include radio frequency (RF), microwave, or other communication links. The RF transmitter **216** and the RF receiver **218** typically are used with message store and forward stations that encode and decode inbound and outbound messages into formats that are compatible with landline message switched computers and personal radio addressing requirements, such as cellular messages, short messaging service, or paging protocols. The wireless system controller **214** can also function to encode and decode wireless messages that are transmitted to or received by the RF transmitter **216** or the RF receiver **218**. Telephony signals are typically transmitted to and received from the wireless system controller **214** by telephone sets such as the telephone **204** or a mobile device. The wireless system controller **214** encodes and schedules outbound messages such as a downlink message **222**. The wireless system controller **214** then transmits the encoded outbound messages through the RF transmitter **216** via a transmit antenna **224** to a plurality of mobile devices **226** such as the mobile device **90** of FIG. **6** on at least one outbound radio frequency (RF) channel **234**. The plurality of mobile devices **226**, for example, includes a first mobile device **228**, a second mobile device **230**, and a third mobile device **232** each communicating through a wireless connection such as the outbound RF channel **234** and an inbound RF channel **240**. The downlink message **222** can be, for example, a data message or a voice call such as the session message **46**. Similarly, the wireless system controller **214** receives and decodes inbound messages such as an uplink message **236** received by the RF receiver **218** via a receive antenna **238** on at least one inbound radio frequency (RF) channel **240** from one of the plurality of mobile devices **226**. The uplink message **236** can be, for example, a data message, a reply to a data message, a response message based on at least one data message, a voice call, or a reply to a voice call, such as the session message **46**.

Each of the plurality of mobile devices **226** assigned for use in the wireless messaging system **114** has an address or identity assigned thereto which is a unique selective call address in the wireless messaging system **114**. For example, the first mobile device **228** has a first address **242**, the second mobile device **230** has a second address **244**, and the third mobile device **232** has a third address **246**. It will be appreciated by one of ordinary skill in

the art that other mobile devices assigned for use in the wireless messaging system **114** have an address assigned thereto which is a unique selective call address in the wireless messaging system **114**. The address enables the transmission of the downlink message **222** from the wireless system controller **214** only to the mobile device having the address, and identifies the messages and responses received at the wireless system controller **214** from the mobile device with the address. In one embodiment, each of the plurality of mobile devices **226** also has a pin number assigned thereto, the pin number being associated with a telephone number within the PSTN **210**. A list of the assigned addresses and correlated telephone numbers for each of the plurality of mobile devices **226** is stored in the wireless system controller **214** in the form of a subscriber database **248**.

Preferably, at least one messaging client operates within a mobile device. For example, as illustrated in FIG. **9**, the first messaging client **14** operates within the first mobile device **228** and the second messaging client **20** operates within the second mobile device **230**. Similarly, a plurality of messaging clients can operate within the same mobile device. For example, a third messaging client **250** and a fourth messaging client **252** operate within the third mobile device **232**. It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, a mobile device can include no messaging client, one messaging client, or a plurality of messaging clients.

In one embodiment of the present invention, the message server **172** is coupled to the wireless system controller **214** of the wireless messaging system **114**. The message server **172** provides a means for real time electronic message communication with the plurality of mobile devices **226**. The message server **172**, for example, receives a request and can in response to such receipt, sends a response, both via the wireless system controller **214**. The wireless system controller **214** then routes the response to the requesting device which may be a message input device, such as the telephone **204**, the computer **206**, or the desktop messaging unit **208**, or alternatively may be an individual or one of the plurality of mobile devices **226**. In the following description, the term requester refers to any of the requesting devices mentioned above or an equivalent.

Preferably, the message server **172** includes a server address **254**, which is a unique selective call address in the wireless messaging system **114**. The server address **254** enables the transmission, via the inbound RF channel **240**, to the message server **172** of various real time electronic communication messages such as conversation service requests, subscription requests, conversation messages, availability settings, and other information. The message

server **172** similarly sends real time electronic communication messages such as sending an availability setting or the forwarding of a session message to the plurality of mobile devices **226** via the outbound RF channel **234**. Furthermore, the message server **172** can also have a pin number assigned thereto, the pin number being associated with a telephone number within the PSTN **210**. The server address **254** and correlated telephone number is stored in the in the subscriber database **248** of the wireless system controller **214**.

The coupling of the message server **172** to the wireless messaging system **114** enhances the operation of the wireless messaging system **114** by adding intelligence for multiple mobile devices to communicate in substantially real time. The message server **114** interactively manages the messaging traffic associated with the plurality of messaging sessions **24** in an efficient manner.

FIG. **10** is an electronic block diagram of one embodiment of the messaging communication system **10, 170** of FIGs. **1** and **8** respectively. Specifically, FIG. **10** illustrates an embodiment of the present invention in which the messaging communication system **10, 170** is the wired messaging system **89** of FIG. **5**. The wired messaging system **89**, for example, can include a LAN **256** (local area network), a WAN **258** (wide area network), or a combination of LAN **256** and WAN **258** networks. It will be appreciated that while only a single LAN **256** and a single WAN **258** are shown, multiple LAN **256** networks and/or WAN **258** networks can be interconnected in a manner well known to one of ordinary skill in the art for the transfer of electronic communication such as electronic mail (email), and real time electronic messaging (i.e.: instant messaging and chat messaging) including the plurality of session messages **61**.

The general function and operation of the LAN **256** is one of allowing spatially co-located computers which are typically located within a room, building or campus of buildings to communicate with each other and/or share common resources on a computer network in a manner well known to one of ordinary skill in the art. The spatially co-located computers are represented pictorially in FIG. **10** as a plurality of messaging devices, such as the fixed network device **50** of FIG. **5**, three of which are shown by example. (a first network device **260**, a second network device **262**, and a third network device **264**) Each of the plurality of messaging devices communicates using a network connection **265**. Preferably, at least one messaging client operates within a network device. For example, as illustrated in FIG. **10**, the first messaging client **14** operates within the first network device **260** and the second messaging client **20** operates within the second network device **262**.

Similarly, a plurality of messaging clients can operate within the same network device. For example, the third messaging client **250** and the fourth messaging client **252** operate within the third network device **264**. It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, a network device can include no messaging client, one messaging client, or a plurality of messaging clients.

Typical resources shared on the LAN **256** through a LAN server **266** are files on a file server, printers on a print server, and electronic message (email) services on an email server. The LAN **256** uses a physical network such as ARCNET, Ethernet, Token-ring, Local Talk or other network media to connect the computers, which represent wired network nodes into the network. The LAN **256** can employ any one of a number of networking protocols, such as TCP/IP (Transmission Control Protocol/Internet Protocol), AppleTalk™, IPX/SPX (Inter-Packet Exchange/Sequential Packet Exchange), Net BIOS (Network Basic Input Output System) or any other packet structures to enable the communication between E-mail clients and the E-mail server. In the following description, the term "local area network" refers to a network utilizing any of the networking protocols mentioned above or an equivalent. The LAN **256** can also use routers (not shown) to subnet the LAN **256** organizationally or physically. In this context, the definition of the LAN **256** as described herein refers to a geographic locality of computers and the type of wired media used to interconnect the computers for communication.

The general function and operation of the WAN **258** is also one of allowing computers to share common resources. However, in this context the definition used herein is one where the computers are not spatially co-located. The typical resources shared are similar to, if not the same, as found in the LAN **256**. However, the WAN **258** uses a different physical network media such as X.25, Frame Relay, ISDN, Modem dial-up or other media to connect other computers or other local area networks to the WAN **258** network. The WAN **258**, for example, can include a number of well-known private wide area networks, one (**268**) of which is shown by example; and public wide area networks, one (**270**) of which is show by example, such as CompuServe™, America Online™ (AOL), the MIT computer network, the Motorola™ computer network and Prodigy™. In the following description, the term "wide area network" refers to any of the networks mentioned above or an equivalent. The WAN **258** described above can operate independently, or can be interconnected through the well-known worldwide Internet computer network **272**. Likewise, the LAN **256** can also

be interconnected to the WAN **258** through the worldwide Internet computer network **272**, as shown, in a manner well known to one of ordinary skill in the art.

In a one embodiment of the present invention, the message server **172** is coupled to the LAN **256** and to the WAN **258** of the wired messaging system **89**. The message server **172** provides a means for real time electronic message communication with all messaging devices communicating within the wired messaging system **89** such as the first network device **260**, the second network device **262**, and the third network device **264**. The message server **172**, for example, receives a request and preferably in response to such receipt, sends a response, via the LAN server **266**, via the worldwide Internet computer network **272**, or an equivalent. The LAN server **266**, the worldwide Internet computer network **272**, or the equivalent then routes the response to the requesting device, which can be an individual or one of the networked devices. In the following description, the term requester refers to any of the requesting devices mentioned above or an equivalent.

FIG. **11** is an electronic block diagram of one embodiment of the messaging communication system **10, 170** of FIGs. **1** and **8** respectively. Specifically, FIG. **11** illustrates an alternate embodiment of the present invention in which the messaging communication system **10, 170** is the wired messaging system **89** of FIG. **5**. The wired messaging system **89** illustrated in FIG. **11** is, for example, a broadcast messaging system **274**.

The broadcast messaging system **274** preferably includes a cable headend **276**, a network PSTN **278**, and a plurality of cable boxes, such as the cable box **136** of FIG. **7**, three of which are shown by way of example. (a first cable box **280**, a second cable box **282**, and a third cable box **284.** Each of the plurality of cable boxes communicates within the broadcast messaging system **274** via a wired connection **286**. Preferably, at least one messaging client operates within a cable box. For example, as illustrated in FIG. **11**, the first messaging client **14** operates within the first cable box **280** and the second messaging client **20** operates within the second cable box **282**. Similarly, a plurality of messaging clients can operate within the same cable box. For example, the third messaging client **250** and the fourth messaging client **252** operate within the third cable box **284**. It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, a cable box can include no messaging client, one messaging client, or a plurality of messaging clients.

The cable headend **276** is coupled to the first cable box **280**, the second cable box **282**, the third cable box **284**, the network PSTN **278**, and, in one embodiment, the message server

172. The cable headend **276** enables operators to deliver services such as conventional video and audio broadcasting, NVOD, VOD, Pay TV, advertising, information, interactive shopping and more. The cable headend **276** preferably offer functions such as MPEG-2/DVB encoding of local and non-compressed programs, insertion of local advertising and events data insertion, conditional access (CA) scrambling, interactive services, and monitoring and control of the entire network. At the multiplexing stage, broadcasters can create program bouquets and add PSI/SI information before the outgoing transport stream is delivered to a conditional access (CA) system for scrambling. Following processing, transport streams are modulated and then transmitted to the cable headend **276** via telecom networks, terrestrial or satellite systems.

In one embodiment of the present invention, the message server **172** is coupled to the cable headend **276** of the broadcast messaging system **274**. The message server **172** provides a means for real time electronic message communication with all cable boxes communicating within the broadcast messaging system **274**. The message server **172**, for example, receives a request and preferably in response to such receipt, sends a response via the cable headend **276**. The cable headend **276** then routes the response to the requesting device, which can be an individual, or can be a cable box. In the following description, the term requester refers to any of the requesting devices mentioned above or an equivalent.

FIG. **12** is an electronic block diagram illustrating an alternative embodiment of the messaging communication system **10,170** in accordance with the present invention. As illustrated, the messaging communication system **10,170** preferably includes a first messaging system **288** having a first plurality of messaging clients **292**, and a second messaging system **290** having a second plurality of messaging clients **294**. In one embodiment, the messaging communication system **10,170** also includes the message server **172**. It will be appreciated by one of ordinary skill in the art that while only two messaging systems are shown by way of example, multiple messaging systems can be interconnected in a manner well known to one of ordinary skill in the art for the transfer of electronic communication such as electronic mail (email), and real time electronic messaging (i.e.: instant messaging and chat messaging) either directly between the messaging systems and/or by using the messaging server **172**.

It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, the first messaging system **288** and the second messaging system **290** can be the wireless messaging system **114** of FIG. **9**, the wired messaging system **89** of FIG. **10**,

the broadcast messaging system **274** of FIG. **11** or any other equivalent messaging system. Further, in accordance with the present invention, the messaging communication system **10,170** can include a plurality of wireless messaging systems, a plurality of wired messaging systems, or any combination thereof. Similarly, each messaging client of the first plurality of messaging clients **292** and the second plurality of messaging clients **294** can operate within the mobile device **90** of FIG. **6**, the fixed network device **50** of FIG. **5**, or the cable box **136** of FIG. **7**. The first plurality of messaging clients **292** and the second plurality of messaging clients **294**, in accordance with the present invention, can include a plurality of wireless messaging devices, a plurality of wired messaging devices, a plurality of networked devices, or any combination thereof.

FIG. **13** is a flowchart illustrating the operation of the messaging communication system **10,170** in accordance with the present invention. Beginning with Step **296**, the first messaging client **14** establishes the first communication connection **16** for communication within at least one of the plurality of messaging sessions **24** within the messaging communication system **10,170**. For example, when the first messaging client **14** operates within the fixed network device **50**, the first messaging client **14** accesses the appropriate network and notifies the messaging communication system **10,170** of its connection information (i.e.: IP address and number of the port assigned to the first messaging client **14**). Next, in Step **298**, the process determines whether or not an authentication is required. It will be appreciated by one of ordinary skill in the art that an authentication can be required of the first messaging client **14**, of the first account user **29** utilizing the first messaging client **14**, or of the messaging device in which the first messaging client **14** operates, or an equivalent. In Step **300**, when an authentication is required in Step **298**, a first authentication is performed. The first authentication of Step **300** checks that the first account user **29** or alternatively the first messaging client **14** is authorized to establish the first communication connection **16** and/or authorized to participate within one or more of the plurality of messaging sessions **24**. Next, in Step **302**, when the first authentication of Step **300** is completed, and also when the authentication is not required in Step **298**, the first messaging client **14** operates using the first communication connection **16** and accumulates the plurality of session data **36** for each messaging session **40** for which the first messaging client **14** is participating. In accordance with the present invention, the plurality of session data **36** can include the session identifier **41**, the session priority **42**, the session preferences **43**, the session participants **44**, or the session history **45**. It will be appreciated by one of

ordinary skill in the art that the plurality of session data **36** can include any of the items mentioned herein or an equivalent. Next, in Step **304**, the process determines whether a data transfer is required or requested. A data transfer, in accordance with the present invention, is the capability for a first account user **29** to change communication means within the messaging communication system **10, 170** from the first messaging client **14** to the second messaging client **20**. For example, when the first account user **29** establishes the first communication connection **16** using the fixed network device **50** and thereafter needs to become mobile, the first account user **29** can transfer the first client data **17** including the plurality of session data **36** accumulated for the first communication connection **16** to the second messaging client **20** which for example can operate on the mobile device **90**. When no data transfer is required or requested in Step **304**, the first communication connection **16** is maintained in Step **302**, whereby the first messaging client **14** continues to accumulate the plurality of session data **36** for each messaging session **40** for which the first messaging client **14** participates. In Step **306**, when a data transfer is required or requested in Step **304**, the process determines if it is necessary to verify the second messaging client **20** prior to transferring the first client data **17** including the plurality of session data **36** to the second messaging client **20**. When verification of the second messaging client **20** is required, the second messaging client **20** is verified in step **308**. For example, the first messaging client **14** and the second messaging client **20** can both be pre-configured with a private value and the first messaging client **14** can exchange messages with the second messaging client **20** that verify that the second messaging client **20** has the correct private value. Next, in Step **310**, after the second messaging client **20** is verified in Step **308** or when no verification is required in Step **306**, the first client data **17** including the plurality of session data **36** is transferred from the first messaging client **14** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that a portion of the first client data **17** can alternatively be transferred in Step **310.** It will further be appreciated by one of ordinary skill in the art that the transfer of the first client data 17 can be accomplished using a direct connection between the first messaging client **14** and the second messaging client **20** or a connection through the message server **172,** both either via a network connection, a wireless connection such as through the wireless communication system **114**, a Bluetooth connection, or IRDA connection, a wired connection such as through the wired communication system **89**, a network connection separate from the wireless communication system, an RS-232 connection or the broadcast messaging system **274**, or an equivalent.

Next, in Step **312**, the process determines whether or not the second communication connection **22** has already been established. For example, the second messaging client **20** can establish the second communication connection **22** independently from the establishment of the first communication connection **16** by the first messaging client **14**. The second messaging client **20** can establish the second communication connection **22** but not yet be participating in a messaging session. Alternatively, the second messaging client **20** can independently be participating in one or more messaging session of the plurality of messaging session **24** which can be the same or different messaging sessions from the ones that the first messaging client **14** is participating. In Step **314**, when no second communication connection **22** has been established for the second messaging client **20**, the process determines whether or not the authentication key **33** is required. In Step **316**, when the authentication key **33** is required in Step **314**, the first messaging client **14** transfers the authentication key **33** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that the second messaging client **20** can include a plurality of authentication keys and that in step **316** the first messaging client **14** can send an indicator of which of the plurality of authentication keys should be used. It will be appreciated by one of ordinary skill in the art that an authentication key can be required of the second messaging client **20**, of the first account user **29**, or any other account user **30** utilizing the second messaging client **20**, or of the particular messaging device in which the second messaging client **20** operates, or an equivalent. It will further be appreciated by one of ordinary skill in the art that the transfer of the authentication key **33** can be accomplished using a direct connection between the first messaging client **14** and the second messaging client **20** or a connection through the message server **172**, both either via a network connection, a wireless connection such as through the wireless communication system **114**, a Bluetooth connection, or IRDA connection, a wired connection such as through the wired communication system **89**, a network connection separate from the wireless communication system , an RS-232 connection or the broadcast messaging system **274**, or an equivalent. Next, in Step **318**, when no authentication key is required in Step **314** or after the transfer of the authentication key in Step **316**, the second communication connection **22** is established. The second messaging client **20** establishes the second communication connection **22** for communication within at least one of the plurality of messaging sessions **24** within the messaging communication system **10,170**. For example, when the second messaging client **20** is the mobile device **90**, the second messaging client **20** accesses the appropriate network

through the wireless communication system **114** and notifies the messaging communication system **10,170** of its connection information (i.e.: the second address **244** of the second mobile device **230** when the second messaging client **20** operates within the second mobile device **230**). Next, in Step **320,** the process determines whether or not an authentication is required. It will be appreciated by one of ordinary skill in the art that an authentication can be required of the second messaging client **20**, of the first account user **29**, or any other account user **30** utilizing the second messaging client **20**, or of the particular messaging device in which the second messaging client **20** operates, or an equivalent. In Step **322**, when an authentication is required in Step **320**, a second authentication is performed. Next, in Step **324**, when the second communication connection **22** is already established in Step **312**, or after the second session connection **22** is established in Step **318** and authentication is not required in Step **320**, or after the second authentication in Step **322**, the second communication connection **22** is operated using the first client data **17** including the plurality of session data **36** transferred from the first messaging client **14** to the second messaging client **20** in Step **310**.

The method illustrated by the flowchart of FIG. **13** allows messaging sessions to be easily transferred between messaging clients while maintaining session continuity and assuring session security. The account user can switch to a different messaging client on a different messaging system without being required to re-initiate each messaging session that was in progress on the first messaging client. Session continuity is maintained within the two messaging clients, and optionally the transfer does not affect other messaging session participants.

Similarly, the method illustrated by the flowchart of FIG. **13** allows messaging sessions to be easily transferred between different account users. For example, if the first account user **29** is a customer service representative and the first account user **29** is a participant in the plurality of messaging sessions **24** with customers. The first account user **29** may want to transfer a portion of the plurality of messaging sessions **24** to another account user **30** such as a second customer service representative. The second customer service representative would benefit from having access to the session history **45** of the transferred messaging sessions. For example, the second customer representative can avoid asking the customer for information already provided to the first account user **29**.FIG. **14** is a flowchart illustrating more detail of the operation of the messaging communication system **10,170**. Specifically, FIG. **14** illustrates various methods in which the data transfer query

(Step **304** of FIG. **13**) can be answered in the affirmative. The operation begins with Step **302**, in which the first messaging client **14** operates using the first communication connection **16** and accumulates the plurality of session data **36** for each messaging session **40** for which the first messaging client **14** is participating. Next, in Step **326**, the process determines whether or not the first messaging device in which the first messaging client **14** operates has received a user input requesting the transfer of at least a portion of the first client data **17** including the plurality of session data **36**. For example, when the messaging device in which the first messaging client **14** operates is the fixed network device **50** of FIG. **5**, the first account user **29** can enter and manipulate information (including requesting the transfer of the first client data **17**) by the user input **88** to the user interface **64**, e.g., the keyboard **66**, the "mouse," **68**, the pen or puck activated tablet (not shown), the trackball **70**, the audio activated command recognition processor **72**, or the like. Similarly, when the first messaging device in which the first messaging client **14** operates is the mobile device **90** of FIG. **6**, the first account user **29** can enter a user input such as a button press, a series of button presses, a voice response, or some other similar method of manual response initiated by the first account user **29** to the device user interface **110** of the mobile device **90**. Similarly, when the first messaging device in which the first messaging client **14** operates is the cable box **136** of FIG.**7**, the user input is made via the cable box user interface **160**. It will be appreciated by one of ordinary skill in the art that the user input can be any of the inputs mentioned herein or an equivalent. When a user input requesting the transfer of at least a portion of the first client data **17** including the plurality of session data **36** is not received by the first messaging device in which the first messaging client **14** operates, the process next, in Step **328** determines whether a user input requesting the transfer of at least a portion of the first client data **17** including the plurality of session data **36** has been received by a second messaging device in which the second messaging client **20** operates. For example, when the second messaging device in which the second messaging client **20** operates is the fixed network device **50** of FIG. **5**, the first account user **29** can enter and manipulate information (including requesting the transfer of the first client data **17**) by the user input **88** to the user interface **64**, e.g., the keyboard **66**, the "mouse," **68**, the pen or puck activated tablet (not shown), the trackball **70**, the audio activated command recognition processor **72**, or the like. Similarly, when the second messaging device in which the second messaging client **20** operates is the mobile device **90** of FIG. **6**, the first account user **29** of the mobile device **90** can enter a user input such as a button press, a series of button presses,

a voice response, or some other similar method of manual response initiated by the first account user **29** to the device user interface **110** of the mobile device **90**. Similarly, when the second messaging device in which the second messaging client **20** operates is the cable box **136** of FIG.**7**, the user input is made via the cable box user interface **160**. It will be appreciated by one of ordinary skill in the art that the user input can be any of the inputs mentioned herein or an equivalent. When a user input requesting the transfer of at least a portion of the first client data **17** including the plurality of session data **36** is not received by the second messaging device in which the second messaging client **20** operates, the process next, in Step **330** determines whether the second messaging client **20** is the mobile device **90**, and if so, whether the transfer of at least a portion of the first client data **17** including the plurality of session data **36** is initiated in response to detection of a movement of the mobile device **90**. For example, the server processor **174** of the message server **172** can be programmed to track the location of each of the plurality of messaging clients **12**, and transfer the plurality of session data **36** to the second messaging client **20** in response to the detection of a change of location of the mobile device **90** in which the second messaging client **20** operates. Alternatively, the mobile device **90** can include location-sensing capabilities such as a Global Positioning Satellite receiver, and in response to the detection of a change of location, send a request to transfer the plurality of session data **36**. Alternatively, the second messaging device in which the second messaging client **20** operates can detect its removal from a charging base. Alternatively, the second messaging device in which the second messaging client **20** operates may have a motion-sensing device such as a tilt sensor whose electrical properties change when under motion. When no device movement is detected or alternatively a device movement program is not included in either the mobile device **90** or the message server **172**, in Step **330**, the process continues to Step **331** in which it is determined whether or not the transfer of at least a portion of the first client data **17** including the plurality of session data **36** is required due to the activation of the second messaging client **20**. The activation of the second messaging client **20** can be, for example, in response to a user input to a power circuit that powers the second messaging client **20**. Alternatively, the activation of the second messaging client **20** can be in response to an instruction command to activate sent from CPU **53** to the fixed messaging client **84** of the fixed network device **50**, from the processor **102** to the mobile messaging client **112** of the mobile device **90**, or from the controller **138** to the cable messaging client **40** of the cable box **136**. In one embodiment of the present invention, the message server **172** is

programmed to detect the activation of the second messaging client **20**. In an alternate embodiment, the second messaging client **20** can request the transfer of at least a portion of the first client data **17** including the plurality of session data **36** upon being activated. When the second messaging client **20** is not activated in Step **331**, the process continues to Step **332** in which it is determined whether the second messaging client **20** has connected to the message server **172**. When no connection of the second messaging client **20** is detected, the process returns to Step **326** and continues checking for the various methods in which the data transfer query (Step **304** of FIG. **13**) can be answered in the affirmative. In Step **333**, when there is an affirmative answer to any of the previous Steps **326** to **332**, the query of Step **304** of FIG. **13** of whether or not to transfer data is answered in the affirmative.

FIG. **15** is a flowchart illustrating more detail of the operation of the messaging communication system **10,170**. Specifically, FIG. **15** illustrates various ways in which the first messaging client **14** can operate in relation to the transfer of the plurality of the first client data **17**. The operation begins with Step **302**, in which the first messaging client **14** operates using the first communication connection **16** and accumulates the plurality of session data **36** for each messaging session **40** for which the first messaging client **14** is participating. Next, in Step **334**, the process determines whether it is required or requested to disconnect the first messaging client **14** from the first communication connection **16**. When it is required or requested to disconnect the first messaging client **14** from the first communication connection **16**, in Step **336** the first messaging client **14** is disconnected from the first communication connection **16**. Next, in Step **310**, when the first messaging client **14** is disconnected from the first communication connection **16** in Step **336** and when it is not desired to disconnect the first messaging client **14** from the first communication connection **16** in Step **334**, at least a portion of the first client data **17** including the plurality of session data **36** is transferred from the first messaging client **14** to the second messaging client **20**. Next, in Step **338**, the process once again determines whether it is required or requested to disconnect the first messaging client **14** from the first communication connection **16**. In Step **340**, when it is required or requested to disconnect the first messaging client **14** from the first communication connection **16**, the first messaging client **14** is disconnected from the first communication connection **16**. When no disconnection of the first messaging client **14** is required or requested in Step **338**, the process moves to Step **342** in which the first messaging client **14** continues the first communication connection **16** using the first client data **17** and accumulating the plurality of session data **36**. Next, in Step

324, and also after disconnecting the first messaging client **14** in Step **340**, the second messaging client **20** operates the second communication connection **22** using the transferred portion of the first client data **17** including the plurality of session data **36**.

The flowchart of FIG. **15** as described herein provides an efficient and flexible method for disconnecting the first messaging client **14** from the first communication connection **16** prior to the transfer of the first client data **17** including the plurality of session data **36** or after the transfer of the first client data **17** including the plurality of session data **36**. Further, it provides a method for the continued operation of the first messaging client **14** on the first communication connection **16** and the second messaging client **20** on the second communication connection **22** using the same plurality of session data **36** included in at least a portion of the first client data **17**.

FIG. **16** is a flowchart illustrating more detail of the operation of the messaging communication system **10,170**. Specifically, FIG. **16** illustrates more detail of the transfer of the first client data **17** from the first messaging client **14** to the second messaging client **20** or alternatively a portion of the first client data **17** such as the client data portion **18** or alternatively the session portion **49**. The operation begins with Step **302**, in which the first messaging client **14** operates using the first communication connection **16** and accumulates the plurality of session data **36** for each messaging session **40** for which the first messaging client **14** is participating. While operating within the first communication connection **16**, the first client data **17** of the first messaging client **14** includes both the client data such as the first client identifier **15** as well as an accumulation of the plurality of session data **36**. Next, in Step **344**, the process determines whether only a portion of the first client data **17** such as the client data portion **18** or the session portion **49** is being transferred. In Step **346**, when the entire first client data **17** is being transferred in Step **344**, the first client data **17** is transferred from the first messaging client **14** to the second messaging client **20**. Thereafter, the second client data **23** of the second messaging client **20** includes the first client data **17** along with any other client data already included within the second client data **23**. It will be appreciated by one of ordinary skill in the art that the transfer of the first client data **17** can be accomplished using a direct connection between the first messaging client **14** and the second messaging client **20** or a connection through the message server **172** both either via a network connection, a wireless connection such as through the wireless communication system **114**, a wired connection such as through the wired communication system **89** or the broadcast messaging system **274**, or an equivalent.

Next, in Step **348**, when a portion of the first client data **17** is being transferred, the process determines whether a client data requirement has been sent from the second messaging client **20** to the first messaging client **14**. In Step **350**, when a client data requirement has been sent from the second messaging client **20** to the first messaging client **14**, the client data portion **18** is determined using the client data requirement. For example, due to memory limitations of the device in which the second messaging client **20** operates, the client data portion **18** can be a defined, limited portion of the session history **45**. As another example, the client data requirement can be the plurality of user preferences **35** for the first messaging client **14** set by the first account user **29**. It will be appreciated by one of ordinary skill in the art that the client data requirement can be a requirement for all or any portion of the first client data **17** sent from the second messaging client **20**. When no client data requirement has been received by the first messaging client **14** from the second messaging client **20**, the process moves to Step **352** in which the process determines whether a predetermined client data portion **18** has been programmed either into the first messaging client **14** or alternatively into the message server **172**. In Step **354**, when the predetermined client data portion **18** has been programmed, the client data portion **18** is determined using the predetermined client data portion **18**. In Step **356**, when no predetermined portion has been defined in Step **352**, some other method is used to identify the client data portion **18**. It will be appreciated by one of ordinary skill in the art that any other method can be used to identify the client data portion **18** in accordance with the present invention. Next, in Step **358**, when the client data portion **18** has been identified in Step **350**, **354**, or **356**, the client data portion **18** is transferred from the first messaging client **14** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that the transfer of the client data portion **18** can be accomplished using a direct connection between the first messaging client **14** and the second messaging client **20** or a connection through the message server **172**, both either via a network connection, a wireless connection such as through the wireless communication system **114**, a wired connection such as through the wired communication system **89** or the broadcast messaging system **274**, or an equivalent.

The flowchart of FIG. **16** provides a method for limiting the amount of client data transferred from the first messaging client **14** to the second messaging client **20**, optimizing the efficiency of the transfer of client data to maintain overall optimal system utilization.

FIG. **17** is a flowchart illustrating further operation of the messaging communication system **10,170** in which the first messaging client **14** participates in a plurality of messaging

sessions **24**. The operation begins with Step **359** in which the first messaging client establishes the first communication connection **16**. Next, in Step **360**, a counter is set to N=1. Next, in Step **362**, the process determines whether the first messaging client **14** is participating in an Nth messaging session. In Step **364**, when the first messaging client **14** is not participating in the Nth messaging session, the counter is incremented by one (1). Next, in Step **365**, the process determines whether or not the Nth messaging session exists. When the Nth session does not exist, the process ends. When the Nth messaging session does exist, the process returns to Step **362** in which it is determined whether the first messaging client **14** is participating in the Nth messaging session. In Step **366**, when the first messaging client **14** is participating in the Nth messaging session in Step **362**, the Nth messaging session including its associated session data is included in the first communication connection **16**. Next, in Step **368**, it is determined whether the Nth messaging session is requested or required to be transferred from the first messaging client **14** to the second messaging client **20**. When the Nth messaging session is not requested or required to be transferred in Step **368**, the process returns to Step **366** in which the first communication connection **16** continues to include the Nth messaging session. In Step **370**, when, in Step **368**, the Nth messaging session is being transferred, session data for the Nth messaging session is included in the plurality of session data **36** of the first client data **17**. The session data included for the Nth messaging session can be, for example, the Nth session identifier **41**, the Nth session priority **42**, the Nth session preferences **43**, the Nth session participants **44** and/or the Nth session history **45**. Next, in Step **310**, at least a portion of the first client data **17** including the session data for the Nth messaging session is transferred from the first messaging client **14** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that, in accordance with the present invention, the plurality of session data for each messaging session to be transferred can be transferred separately. Alternatively, in accordance with the present invention, the plurality of session data for all messaging sessions being transferred can be transferred at one time in one or more communications. Next, in Step **312**, the process determines whether or not the second communication connection **22** has been established. In Step **318**, when the second communication connection **22** has not been established, the second communication connection **22** is established. In Step **372**, when the second communication connection **22** is already established in Step **312**, or after the second communication connection **22** is established in Step **318**, the Nth messaging session, along with any portion of the first client

data **17** transferred, is included within the second communication connection **22** for the second messaging client **20**. Next, in Step **374**, the process determines whether a notification of data transfer is required or requested. In step **376**, when a notification is required or requested, the notification is sent. It will be appreciated by one of ordinary skill in the art that the notification of data transfer can be sent for each messaging session separately. Alternatively, in accordance with the present invention, the notification of data transfer can be sent for all messaging sessions being transferred in one notification message. In accordance with the present invention, the notification of data transfer can be sent to at least one of the plurality of messaging clients **12** participating in the Nth messaging session. Alternatively or additionally, the notification of data transfer can be sent to the message server **172**. The notification of data transfer can be sent from the first messaging client **14**, from the second messaging client **20**, from the message server **172**, or an equivalent. Preferably, the notification includes the client profile **85** stored in the device in which the second messaging client **20** operates. The message communication system **10, 170**, including one or more of the plurality of messaging clients **12** and/or the message server **172**, can modify the content sent to the second messaging client **20** based on the client profile **85**. Next, the process returns to Step **364** in which the counter is incremented.

FIG. **18** is a flowchart illustrating one embodiment of the operation of the messaging communication system **170** in which the plurality of messaging sessions **24** includes the multiple user messaging session **19**. The operation begins with Step **378** in which the multiple user messaging session **19** is established within the messaging communication system **170**. The multiple user messaging session **19** includes the plurality of session messages **61** among the plurality of messaging clients **12**. Next, in Step **380**, the process determines whether the first messaging client **12** is participating in the multiple user messaging session **19**. When the first messaging client **12** is not participating in the multiple user messaging session **19**, the process ends. In Step **381**, when the first messaging client **12** is participating in the multiple user messaging session **19**, the first communication connection **16** includes the multiple user messaging session **19**. Further, the data for the multiple user messaging session **19** is part of the plurality of session data **36**. Data for the multiple user messaging session **19** can be, for example, the session identifier **41**, the session priority **42**, the session preferences **43**, the session participants **44** and/or the session history **45** of the multiple user messaging session **19**. Next, in Step **304**, the process determines whether a data transfer is required or requested. When no data transfer is required or

requested in Step **304**, the first communication connection **16** including the multiple user messaging session **19** is maintained in Step **381**. It will be appreciated by one of ordinary skill in the art that the plurality of session data **36** for the multiple user messaging session **19** is updated periodically as the multiple user messaging session **19** continues. (not shown) Next, in Step **310**, when a data transfer is requested or required in Step **304** at least a portion of the first client data **17** including the plurality of session data **36** is transferred from the first messaging client **14** to the second messaging client **20**.

Next, in Step **382**, a data transfer message **384** is sent to the message server **170**. Preferably, the data transfer message **384** is as illustrated in FIG. **19**. The data transfer message **384** preferably includes a session reservation **385**. For example, the session reservation **385** could save a connection within the multiple user messaging session **19** for any messaging client that is being used by the same account identifier used in the first messaging client **14**. As shown in FIG. **19**, the data transfer message **384** alternatively includes the session identifier **41** of the multiple user messaging session **19**, the first client identifier **15** of the first messaging client **14**, the second client identifier **21** of the second messaging client **20**, and the session reservation **385**. The session reservation **385** saves a connection within the multiple user messaging session **19** for the second messaging client **20** having the second client identifier **21**. It will be appreciated by one of ordinary skill in the art that the data transfer message **384** can be sent using a network connection, a wireless connection such as through the wireless communication system **114**, a wired connection such as through the wired communication system **89** or the broadcast messaging system **274**, or an equivalent.

Referring back to FIG. **18**, next, in Step **383**, the second messaging client **20** establishes the second communication connection **22** for participating within the multiple user messaging session **19**. In one embodiment of the present invention, the message server **172** can require that Step **383** be performed within a specific time period after it received the data transfer message **384**. (not shown) If this time is exceeded, the message server **172** can release the reserved seat to be used by any of the plurality of messaging clients **12**. The operation of the message communication system **170** as illustrated in FIG. **18** provides a means for the first account user **29** to ensure that there is an opening within the multiple user messaging session **19** when the first account user **29** transfers at least a portion of the first client data **17** including the plurality of session data **36** (and accordingly the communication means) from the first messaging client **14** to the second messaging client **20**. This operation

is especially beneficial in situations in which there are a limited number of available openings within the multiple user messaging session **19** and the first account user **29** could lose his/her space during the transfer of data from one messaging client to another messaging client.

FIG. **20** is a signaling flow diagram illustrating an example of the interaction between the elements of the messaging communication system **10, 170,** according to the present invention. Specifically, FIG. **20** illustrates the interaction between the first messaging client **14**, the second messaging client **20**, the messaging client **26**, and the message server **172**. In accordance with the present invention, as illustrated in FIG. **20**, a second account user, such as the account user **30**, logs onto the messaging client **26** and sends a notification signal **388** to the message server **172**. Preferably, the notification signal **388** further includes the second account identifier of the second account user. The notification signal **388** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the messaging client **26**. Similarly, the first account user **29** logs onto the first messaging client **14** and sends a notification signal **386** to the message server **172**. The notification signal **386** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the first messaging client **14**. Preferably, the notification signal **386** also includes the first account identifier of the first account user **29**. It will be appreciated by one of ordinary skill in the art that alternatively, the notification signals **386** and **388** can be sent directly to one or more of the plurality of messaging clients **12**. In response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **390** to the messaging client **26**. The client availability signal **390** informs the second account user via the messaging client **26** that the first account user **29** is available for real time electronic communications such as for participation in one or more of the plurality of messaging sessions **24**. Similarly, in response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **392** to the first messaging client **14**. The client availability signal **392** informs the first account user **29** via the first messaging client **14** that the second account user is available for real time electronic communications such as for participation in one or more of the plurality of messaging sessions **24**. Next, the first account user **29** initiates the messaging session **40** with the

second account user by sending a session message **394** to the message server **172**. The message server **172**, acting as a store and forward device, sends a session message signal **396** containing substantially the same message information as the session message **394** to the second account user via the messaging client **26**. In response to receiving the session message signal **396**, a window is created on the display of the messaging device in which the second messaging client **26** operates and the session message **46**, preferably along with the first account identifier of the first account user **29**, is displayed in the created window. Next, the second account user via the messaging client **26** sends a response message **398** to the message server **172**. The message server **172**, acting as a store and forward device, sends a response message signal **400** to the first account user **29** via the first messaging client **14** containing substantially the same message information as the response message **398**. In response to receiving the response message signal **400**, the created messaging session window is updated on the display of the messaging device in which the first messaging client **14** operates and the session message contained within the response message **398**, preferably along with the second account identifier of the second account user, is displayed. Although one session message **394** and one response message **398** is illustrated by way of example in FIG. **20**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** between the first account user's first messaging client **14** and the second account user's messaging client **26** can include a plurality of session messages and a plurality of response messages. Further, although the interaction of two account users and two messaging clients is illustrated by way of example in FIG. **20**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** can include a plurality of messaging clients and an associated plurality of account users. Further, it will be appreciated by one of ordinary skill in the art that the session message **394** can be sent directly from the first messaging client **14** to the messaging client **26**; and similarly the response message **398** can be sent directly from the messaging client **26** to the first messaging client **14**, without the interface of the message server **170**, in accordance with the present invention.

According to the present invention, an account user can choose to initiate a data transfer. As illustrated in FIG. **20**, the first account user **29** via the first messaging client **14** sends a transfer request signal **402** including at least a portion of the first client data **17** such as the plurality of session data **36** currently contained on the first account user's first messaging client **14** to the message server **172**. The transfer request signal **402** preferably

also includes a request to the message server **172** to transfer at least a portion of the first client data **17** including the plurality of session data **36** to a new messaging client such as the second messaging client **20**. For example, the first messaging client **14** can be a fixed personal computer such as the fixed network device **50** in the office of the first account user **29**. The first account user **29** has the need to become mobile. The second messaging client **20** can be a cellular telephone such as the mobile device **90**. The first account user **29**, according to the present invention, can pass the current messaging session from his/her personal computer to his/her cellular telephone with no loss of communication or of session data. Similarly, the transfer request signal **402** can include a request for the message server **172** to pass the plurality of session data **36** for more than one messaging session. In response to receiving the transfer request signal **402**, the message server **172** determines whether the second messaging client **20** is currently connected onto the message server **172**. (not shown) For example, the message server **172** determines whether the second messaging client **20** has established the second communication connection **22**. When the second messaging client **20** is not currently connected with the message server **172**, the message server **172** stores the plurality of session data **36** and/or the first client data **17** if so requested until the second messaging client **20** is connected. (not shown) When the second messaging client **20** is connected to the message server **172**, the message server 172 sends the data signal **404** including the plurality of session data **36** and/or any portion of the first client data **17** received from the first messaging client **14** within the transfer request signal **404** to the second messaging client **20**. The second messaging client **20** stores the plurality of session data **36** and/or the portion of the first client data **17** in memory and displays the session history **45** for access and use by the first account user **29** on the display of the messaging device in which the second messaging client **20** operates. It will be appreciated by one of ordinary skill in the art that the data signal **404** can include the plurality of session data **36** for one messaging session or for a plurality of messaging sessions, or can include the first client data **17** or the client data portion **18** of the first client data **17** for the first messaging client **14**. Similarly the messaging device in which the second messaging client **20** operates can store one messaging session or a plurality of messaging sessions, the first client data **17** or the client data portion **18** of the first client data **17** in its memory in response to receiving the data signal **404**. Preferably, in response to receiving the data signal **404**, the second messaging client **20** sends an acknowledgement signal **406** to the message server **172**. The message server **172** also preferably sends a transfer acknowledgement signal **410** to the first

account user's first messaging client **14**. The messaging session **40** seamlessly continues between the first account user **29** and the second account user through the second messaging client **20** and the messaging client **26** as illustrated by the plurality of session messages **412** to **422**. The messaging session **40** continues seamlessly without the second account user being necessarily aware of the transfer of the first client data from the first account user's first messaging client **14** to his/her second messaging client **20**. It will be appreciated by one of ordinary skill in the art that although only a second account user is shown in FIG. **20** by way of example, the messaging session **40** can continue seamlessly between a plurality of account users and associated plurality of messaging clients.

Preferably, the first messaging client **14** is disconnected from the messaging session **40** upon completion of the data transfer. (not shown) It will be appreciated by one of ordinary skill in the art that the first messaging client **14** can be automatically disconnected from the messaging session **40** or alternatively the first messaging client **14** can be disconnected manually by the first account user **29**. Similarly, it will be appreciated by one of ordinary skill in the art the first messaging client **14** can continue to be active in the messaging session **40** along with the second messaging client **20**. (not shown)

FIG. **21** is a signaling flow diagram illustrating the interaction between the elements of the messaging communication system **10**,**170**, according to the present invention. Specifically, FIG. **21** illustrates the interaction between the first messaging client **14**, the second messaging client **20**, the messaging client **26**, and the message server **172**, according to the present invention. In accordance with the present invention, as illustrated in FIG. **21**, a second account user, such as the account user **30**, logs onto the messaging client **26** and sends a notification signal **388** to the message server **172**. For example, the messaging client **26** establishes the communication connection **28**. The notification signal **388** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the messaging client **26**. Preferably, the notification signal **388** further includes the second account identifier of the second account user. Similarly, the first account user **29** logs onto the first messaging client **14** and sends a notification signal **386** to the message server **172**. For example, the first messaging client **14** establishes the first communication connection **16**. The notification signal **386** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the first messaging client **14**. Preferably, the notification signal **386** also includes the first account identifier of the first account user **29**. It will be appreciated by one of

ordinary skill in the art that alternatively, the notification signals **386** and **388** can be sent directly to one or more of the plurality of messaging clients **12**. In response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **390** to the messaging client **26**. The client availability signal **390** informs the second account user via the messaging client **26** that the first account user **29** is available for real time electronic communications such as participation in one or more messaging sessions. Similarly, in response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **392** to the first messaging client **14**. The client availability signal **392** informs the first account user **29** via the first messaging client **14** that the second account user is available for real time electronic communications such as participation in one or more messaging sessions. Next, the first account user **29** initiates the messaging session **40** with the second account user by sending a session message **424** to the message server **172**. The message server **172**, in response to receiving the session message **424** sends a messaging session participation request **426** to the second account user via the messaging client **26**. The messaging client **26** asks the second account user if he/she wants to participate in the messaging session **40** with the first account user **29**. When the second account user does not accept the messaging session participation request **426**, the process stops. (not shown) When the second account user does accept the messaging session participation request **426**, the messaging client **26** sends a messaging session participation acceptance signal **428** to the message server **172**. The message server **172**, in response to receiving the messaging session participation acceptance signal **428**, sends a session message signal **396** containing substantially the same message information as the session message **424** to the second account user via the messaging client **26**. In response to receiving the session message signal **396**, a window is created on the display of the messaging device in which the messaging client **26** operates and the session message **46**, preferably along with the first account identifier of the first account user **29**, is displayed on the created window. Next, the second account user via the messaging client **26** sends a response message **398** to the message server **172**. The message server **172**, acting as a store and forward device, sends a response message signal **400** to the first account user **29** via the first messaging client 14 containing substantially the same message information as the response message **398**. In response to receiving the response message signal **400**, the open

display window is updated on the display of the messaging device in which the first messaging client **14** operates and the session message, preferably along with the second account identifier of the second account user, is displayed. Although one session message **396** and one response message **398** is illustrated by way of example in FIG. **21**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** between the first account user's first messaging client **14** and the second account user's messaging client **26** can include a plurality of session messages and a plurality of response messages. Further, although the interaction of two account users and two messaging clients is illustrated by way of example in FIG. **21**, it will be appreciated by one of ordinary skill in the art that the messaging session can include a plurality of messaging clients and an associated plurality of account users.

According to the present invention, an account user can choose to initiate a data transfer. As illustrated in FIG. **21**, the first account user **29** via the second messaging client **20** sends a transfer request signal **430** to the first account user's first messaging client **14**. In response, the first messaging client **14** sends a connection discovery and verification signal **432** to the second messaging client **20**. The second messaging client **20** then sends an acknowledgement signal **434** to the first messaging client **14**. The acknowledgement signal **434** preferably includes verification data in which the first messaging client **14** can verify the validity of the second messaging client **20**. The first messaging client **14** then sends a data signal **436** to the second messaging client **20**. In a preferred embodiment, the second messaging client **20**includes session transfer capabilities. Alternatively, the messaging device in which the second messaging client **20** operates includes the data transfer application **83**. The first account user **29** launches the data transfer application **83** or alternatively the data transfer capabilities of the second messaging client **20,** and utilizes the data transfer application **83** and/or the second messaging client **20** to achieve the transfer of at least a portion of the first client data **17** including the plurality of session data **36** from the first messaging client **14**. The data transfer application **83** stores first client data received including the plurality of session data **36** for the messaging session **40** in the memory of the messaging device and launches the second messaging client **20** if it is not already active. The messaging device in which the second messaging client **20** operates displays the session history **45** for access and use by the first account user **29** on the messaging device in which the second messaging client **20** operates. It will be appreciated by one of ordinary skill in the art that the session data signal **436** can include the plurality of session data **36** for one

messaging session or for a plurality of messaging sessions, or can include the first client data **17** or the client data portion **18** of the first client data **17** for the first messaging client **14**. Similarly the messaging device in which the second messaging client **20** operates can store one messaging session or a plurality of messaging sessions, the first client data **17** or the client data portion **18** of the first client data **17** in its memory in response to receiving the session data signal **436**.

The messaging session **40** continues between the first account user **29** and the second account user through the second messaging client **20** and the messaging client **26** as illustrated by the plurality of session messages **412** to **422**. The messaging session **40** continues seamlessly without the second account user being necessarily aware of the transfer of the portion of the first client data **17** including the plurality of session data **36** from the first messaging client **14** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that although only a second account user is shown in FIG. **21** by way of example, the messaging session **40** can continue seamlessly between a plurality of account users and associated plurality of messaging clients.

Preferably, the first messaging client **14** is disconnected from the messaging session **40** upon completion of the data transfer. (not shown) It will be appreciated by one of ordinary skill in the art that the first messaging client **14** can be automatically disconnected from the messaging session **40** or alternatively the first messaging client **14** can be disconnected manually by the first account user **29**. Similarly, it will be appreciated by one of ordinary skill in the art the first messaging client **14** can continue to be active in the messaging session **40** along with the second messaging client **20**. (not shown)

FIG. **22** is a signaling flow diagram illustrating the interaction between the elements of the messaging communication system **10, 170**, according to the present invention. Specifically, FIG. **22** illustrates the interaction between the first messaging client **14**, the second messaging client **20**, the messaging client **26**, and the message server **172**. In accordance with the present invention, as illustrated in FIG. **22**, a second account user, such as the account user **30**, logs onto the messaging client **26** and sends a notification signal **388** to the message server **172**. For example, the messaging client **26** establishes the communication connection **28**. The notification signal **388** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the messaging client **26**. Preferably, the notification signal **388** further includes the second account identifier of the second account user. Similarly, the first account user **29**

logs onto the first messaging client **14** and sends a notification signal **386** to the message server **172**. For example, the first messaging client **14** establishes the first communication connection **16**. The notification signal **386** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the first messaging client **14**. Preferably, the notification signal **386** also includes the first account identifier of the first account user **29**. It will be appreciated by one of ordinary skill in the art that alternatively, the notification signals **386** and **388** can be sent directly to one or more of the plurality of messaging clients **12**. In response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **390** to the messaging client **26**. The client availability signal **390** informs the second account user via the messaging client **26** that the first account user **29** is available for real time electronic communications such as participation in one or more of the plurality of messaging sessions **24**. Similarly, in response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **392** to the first messaging client **14**. The client availability signal **392** informs the first account user **29** via the first messaging client **14** that the second account user is available for real time electronic communications such as participation in one or more of the plurality of messaging sessions **24**. Next, the first account user **29** initiates the messaging session **40** with the second account user by sending a session message **424** to the message server **172**. The message server **172**, in response to receiving the real time electronic message **424** sends a messaging session participation request **426** to the second account user via the messaging client **26**. The messaging client **26** asks the second account user if he/she wants to participate in the messaging session **40** with the first account user **29**. When the second account user does not accept the messaging session participation request **426**, the process stops. (not shown) When the second account user does accept the messaging session participation request **426**, the messaging client **26** sends a messaging session participation acceptance signal **428** to the message server **172**. The message server **172**, in response to receiving the messaging session participation acceptance signal **428**, sends a session message signal **396** containing substantially the same message information as the session message **424** to the second account user via the messaging client **26**. In response to receiving the session message signal **396**, a window is created on the display of the messaging device in which the messaging client **26** operates

and the session message **46**, preferably along with the first account identifier of the first account user **29**, is displayed. Next, the second account user via the messaging client **26** sends a response message **398** to the message server **172**. The message server **172**, acting as a store and forward device, sends a response message signal **400** to the first account user **29** via the first messaging client **14** containing substantially the same message information as the response message **398**. In response to receiving the response message signal **400**, the open display window is updated on the display of the messaging device in which the first messaging client **14** operates and the session message, preferably along with the second account identifier of the second account user, is displayed. Although one session message **396** and one response message **398** is illustrated by way of example in FIG. **22**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** between the first account user's first messaging client **14** and the second account user's messaging client **26** can include a plurality of session messages and a plurality of response messages. Further, although the interaction of two account users and two messaging clients is illustrated by way of example in FIG. **22**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** can include a plurality of messaging clients and an associated plurality of account users.

According to the present invention, an account user can choose to initiate a data transfer. As illustrated in FIG. **22**, the first account user **29** via the second messaging client **20** sends a transfer request signal **430** to the first account user's first messaging client **14**. In response, the first messaging client **14** sends a connection discovery and verification signal **432** to the second messaging client **20**. The second messaging client **20** then sends an acknowledgement signal **434** to the first messaging client **14**. The acknowledgement signal **434** preferably includes verification data in which the first messaging client **14** can verify that the validity of the second messaging client **20**. In response to receiving the acknowledgement signal **434**, the first messaging client **14** sends a request for a key **438** to the message server **172**. Next, the message server **172** sends a key signal **440** to the first messaging client **14**. The first messaging client **14** then sends the data and key signal **442** to the second messaging client **20**. The key preferably includes a code by which the second messaging client **20** can access the messaging session **40**. The second messaging client **20** stores the transferred portion of the first client data **17** including the plurality of session data **36** and the key for the messaging session **40** in the memory of the messaging device in which the second messaging client **20** operates, and displays the session history **45** for

access and use by the first account user **29** on the display of the messaging client in which the second messaging client **20** operates. It will be appreciated by one of ordinary skill in the art that the data and key signal **442** can include session data for one messaging session or for a plurality of messaging sessions, the first client data **17** or a portion of the first client data **17**; and similarly that the second messaging client **20** can store one messaging session or a plurality of messaging sessions, the first client data **17** or a portion of the first client data **17** in memory in response to receiving the data and key signal **442**. The second messaging client **20** then launches the data transfer application **83** or alternatively runs the data transfer software contained within the second messaging client **20**. Further, the second messaging client **20** can cause the messaging device in which the second messaging client **20** operates to display the session history **45** received from the first messaging client **14** within the data and key signal **442** for viewing by the first account user **29**. Next, the second messaging client **20** sends a request for connection signal **444** to the message server **172**. In response, the message server **172** sends a security challenge signal **446** to the second messaging client **20**. The second messaging client **20** responds to the security challenge signal **446** with a security response signal **448** which may be calculated from the security challenge signal and the key to the message server **172**. Then the message server **172** sends an acknowledgement of transfer complete signal **450** to the second messaging client **20**. The messaging session **40** has now been transferred from the first messaging client **14** to the second messaging client **20**. Preferably, the second messaging client **20** also sends an acknowledgement of transfer to the message server **172**. (not shown)

The messaging session **40** continues between the first account user **29** and the second account user through the second messaging client **20** and the messaging client **26** as illustrated by the plurality of session messages **412** to **422**. The messaging session **40** continues seamlessly without the second account user being necessarily aware of the transfer of the portion of the first client data **17** including the plurality of session data **36** from the first messaging client **14** to the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that although only a second account user is shown in FIG. **22** by way of example, the messaging session **40** can continue seamlessly between a plurality of account users and associated plurality of messaging clients.

Preferably, the first messaging client **14** is disconnected from the messaging session **40** upon completion of the data transfer. (not shown) It will be appreciated by one of ordinary skill in the art that the first messaging client **14** can be automatically disconnected

from the messaging session **40** or alternatively the first messaging client **14** can be disconnected manually by the first account user **29**. Similarly, it will be appreciated by one of ordinary skill in the art that the first messaging client **14** can continue to be active in the messaging session **40** along with the second messaging client **20**. (not shown)

FIG. **23** is a signaling flow diagram illustrating the interaction between the elements of the messaging communication system **10,170,** according to the present invention. Specifically, FIG. **23** illustrates the interaction between the first messaging client **14**, the second messaging client **20**, the messaging client **26**, and the message server **172**. In accordance with the present invention, as illustrated in FIG. **23**, a second account user, such as the account user **30**, logs onto the messaging client **26** and sends a notification signal **388** to the message server **172**. For example, the messaging client **26** establishes the communication connection **28**. The notification signal **388** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the messaging client **26**. Preferably, the notification signal **388** further includes the second account identifier of the second account user. Similarly, a first account user **29** logs onto the first messaging client **14** and sends a notification signal **386** to the message server **172**. For example, the first messaging client **14** establishes the first communication connection **16**. The notification signal **386** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the first messaging client **14**. Preferably, the notification signal **386** also includes the first account identifier of the first account user **29**. It will be appreciated by one of ordinary skill in the art that alternatively, the notification signals **386** and **388** can be sent directly to one or more of the plurality of messaging clients **12**. In response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **390** to the messaging client **26**. The client availability signal **390** informs the second account user via the messaging client **26** that the first account user **29** is available for real time electronic communications such as for participation in one or more of the plurality of messaging sessions **24**. Similarly, in response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **392** to the first messaging client **14**. The client availability signal **392** informs the first account user **29** via the first messaging client **14** that the second account user is available for real time electronic

communications such as participation in one or more of the plurality of messaging sessions **24**. Next, the first account user **29** initiates the messaging session **40** with the second account user by sending a session message **424** to the message server **172**. The message server **172**, in response to receiving the session message **424** sends a messaging session participation request **426** to the second account user via the messaging client **26**. The messaging client **26** asks the second account user if he/she wants to participate in the messaging session **40** with the first account user **29**. When the second account user does not accept the messaging session participation request **426**, the process stops. (not shown) When the second account user does accept the messaging session participation request **426**, the messaging client **26** sends a messaging session participation acceptance signal **428** to the message server **172**. The message server **172**, in response to receiving the messaging session participation acceptance signal **428**, sends a session message signal **396** containing substantially the same message information as the session message **424** to the second account user via the messaging client **26**. In response to receiving the session message signal **396**, a window is created on the display of the messaging device in which the messaging client **26** operates and the session message, preferably along with the first account identifier of the first account user **29**, is displayed. . Next, the second account user via the messaging client **26** sends a response message **398** to the message server **172**. The message server **172**, acting as a store and forward device, sends a response message signal **400** to the first account user **29** via the first messaging client **14** containing substantially the same message information as the response message **398**. In response to receiving the response message signal **400**, the open window is updated on the display of the messaging device in which the first messaging client **14** operates and the session message, preferably along with the second account identifier of the second account user, is displayed. Although one session message **396** and one response message **398** is illustrated by way of example in FIG. **23**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** between the first account user's first messaging client **14** and the second account user's messaging client **26** can include a plurality of session messages and a plurality of response messages. Further, although the interaction of two account users and two messaging clients is illustrated by way of example in FIG. **23**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** can include a plurality of messaging clients and an associated plurality of account users.

According to the present invention, an account user can choose to launch data transfer software. As illustrated in FIG. **23**, the first account user **29** launches the data transfer software within the second messaging client **20** or alternatively the data transfer application **83**. Upon launching the data transfer application **83** or alternatively the data transfer software within the second messaging client **20**, the second messaging client **20** sends a notification of availability signal **452** to the message server **172**. In response, the message server **172** sends an availability signal **454** to the first messaging client **14** and an availability signal **456** to the messaging client **26**. Preferably the signals **452** and **454** include identification information for the second messaging client **20** such as the second client identifier **21**. As illustrated, after receiving the availability notification signal **454**, the first messaging client **14** sends a data signal **458** to the second messaging client **20**. The second messaging client **20** stores the received portion of the first client data **17** including the plurality of session data **36** for the messaging session **40** in the memory of its associated messaging device and causes the session history **45** to be displayed on the display of the messaging device in which the second messaging client **20** operates for access and use by the first account user **29**. It will be appreciated by one of ordinary skill in the art that the data signal **458** can include session data for one messaging session or for a plurality of messaging sessions, the first client data **17**, or a portion of the first client data **17**; and similarly that the second messaging client **20** can store one messaging session or a plurality of messaging sessions, the first client data **17**, or a portion of the first client data **17** in its memory in response to receiving the session data signal **458**.

The messaging session **40** continues between the first account user **29** and the second account user through the second messaging client **20** and the messaging client **26** as illustrated by the plurality of session messages **412** to **422**. The messaging session **40** continues seamlessly. It will be appreciated by one of ordinary skill in the art that although only a second account user is shown in FIG. **23** by way of example, the messaging session **40** can continue seamlessly between a plurality of account users and associated plurality of messaging clients.

Preferably, the first messaging client **14** is disconnected from the messaging session **40** upon completion of the data transfer. (not shown) It will be appreciated by one of ordinary skill in the art that the first messaging client **14** can be automatically disconnected from the messaging session **40** or alternatively the first messaging client **14** can be disconnected manually by the first account user **29**. Similarly, it will be appreciated by one

of ordinary skill in the art the first messaging client **14** can continue to be active in the messaging session **40** along with the second messaging client **20**. (not shown)

FIG. **24** is a signaling flow diagram illustrating the interaction between the elements of the messaging communication system **10, 170,** according to the present invention. Specifically, FIG. **24** illustrates the interaction between the first messaging client **14**, the second messaging client **20**, the messaging client **26**, and the message server **172.** In accordance with the present invention, as illustrated in FIG. **24**, a second account user, such as the account user **30**, logs onto the messaging client **26** and sends a notification signal **388** to the message server **172**. The notification signal **388** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the messaging client **26**. Preferably, the notification signal **388** further includes the second account identifier of the second account user. Similarly, a first account user **29** logs onto the first messaging client **14** and sends a notification signal **386** to the message server **172.** The notification signal **386** for example, includes the connection information (i.e.: IP address and number of the port assigned to the messaging client) of the first messaging client **14**. Preferably, the notification signal **386** also includes the first account identifier of the first account user **29**. It will be appreciated by one of ordinary skill in the art that alternatively, the notification signals **386** and **388** can be sent directly to one or more of the plurality of messaging clients **12**. In response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **390** to the messaging client **26**. The client availability signal **390** informs the second account user via the messaging client **26** that the first account user **29** is available for real time electronic communications such as participation in one or more of the plurality of messaging sessions **24**. Similarly, in response to receiving the notification signal **386** from the messaging client **26**, and receiving the notification signal **388** from the first messaging client **14**, the message server **172** sends a client availability signal **392** to the first messaging client **14**. The client availability signal **392** informs the first account user **29** via the first messaging client **14** that the second account user is available for real time electronic communications such as participation in one or more of the plurality of messaging sessions **24**. Next, the first account user **29** initiates the messaging session **40** with the second account user by sending a session message **424** to the message server **172**. The message server **172**, in response to receiving the session message **424** sends a messaging session participation request **426** to the

second account user via the messaging client **26**. The messaging client **26** asks the second account user if he/she wants to participate in the messaging session **40** with the first account user **29**. When the second account user does not accept the messaging session participation request **426**, the process stops. (not shown) When the second account user does accept the messaging session participation request **426**, the messaging client **26** sends a messaging session participation acceptance signal **428** to the message server **172**. The message server **172**, *in response to receiving the messaging session participation acceptance signal* **428**, sends a session message signal **396** containing substantially the same message information as the session message **424** to the second account user via the messaging client **26**. In response to receiving the real time electronic message signal **396**, a window is created on the display of the messaging device in which the messaging client **26** operates and the session message **46**, preferably along with the first account identifier of the first account user **29**, is displayed. . Next, the second account user via the messaging client **26** sends a response message **398** to the message server **172**. The message server **172**, acting as a store and forward device, sends a response message signal **400** to the first account user **29** via the first messaging client **14** containing substantially the same message information as the response message **398**. In response to receiving the response message signal **400**, the open window is updated on the display of the messaging device in which the first messaging client **14** operates and the session message, preferably along with the second account identifier of the second account user, is displayed. Although one session message **396** and one response message **398** is illustrated by way of example in FIG. **23**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** between the first account user's first messaging client **14** and the second account user's messaging client **26** can include a plurality of session messages and a plurality of response messages. Further, although the interaction of two account users and two messaging clients is illustrated by way of example in FIG. **23**, it will be appreciated by one of ordinary skill in the art that the messaging session **40** can include a plurality of messaging clients and an associated plurality of account users.

According to the present invention, an account user can choose to launch data transfer software. As illustrated in FIG. **24**, the first account user **29** launches the transfer software within the second messaging client **20** or alternatively the data transfer application **83**. Upon launching the data transfer application **83** or alternatively the transfer software within the second messaging client **20**, the second messaging client **20** sends a notification

of availability signal **452** to the message server **172**. In response, the message server **172** sends an availability signal **454** to the first messaging client **14** and an availability signal **456** to the messaging client **26**. Preferably the signals **452** and **454** include identification information for the second messaging client **20** such as the second messaging client identification **382**. As illustrated, after receiving the availability signal **454**, the first messaging client **14** sends a data signal **460** to the message server **172**. In response, the message server **172** sends a data signal **462** to the second messaging client **20**. The second messaging client **20** stores the received portion of the first client data **17** including the plurality of session data **36** for the messaging session **40** in memory and causes the session history **45** to be displayed on the display of the messaging device in which the second messaging client **20** operates for access and use by the first account user **29** on the second messaging client **20**. It will be appreciated by one of ordinary skill in the art that the data signals **460** and **462** can include session data for one messaging session or for a plurality of messaging sessions, the first client data **17**, or a portion of the first client data **17**; and similarly that the second messaging client **20** can store one messaging session or a plurality of messaging sessions, the first client data **17**, or a portion of the first client data **17** in memory in response to receiving the data signals **460** and **462**.

The messaging session **40** continues between the first account user **29** and the second account user through the second messaging client **20** and the messaging client **26** as illustrated by the plurality of session messages **412** to **422**. It will be appreciated by one of ordinary skill in the art that although only the first account user **29** and a second account user are shown in FIG. **23** by way of example, the messaging session **40** can continue seamlessly between a plurality of account users and associated plurality of messaging clients.

Preferably, the first messaging client **14** is disconnected from the messaging session **40** upon completion of the data transfer. (not shown) It will be appreciated by one of ordinary skill in the art that the first messaging client **14** can be automatically disconnected from the messaging session **40** or alternatively the first messaging client **14** can be disconnected manually by the first account user **29**. Similarly, it will be appreciated by one of ordinary skill in the art the first messaging client **14** can continue to be active in the messaging session **40** along with the second messaging client **20**. (not shown)

Although the invention has been described in terms of preferred embodiments, it will be obvious to those skilled in the art that various alterations and modifications may be made without departing from the invention. Accordingly, it is intended that all such alterations

and modifications be considered as within the spirit and scope of the invention as defined by the appended claims.

What is claimed is:

CLAIMS

1. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing for a first messaging client a first communication connection operating using a plurality of client data;

transferring the plurality of client data from the first messaging client to a second messaging client; and

establishing for the second messaging client a second communication connection operating using the plurality of client data.

2. A method for providing continuity between a plurality of messaging clients as recited in claim 1 further comprising:

authenticating an account user by the first messaging client using an authentication key prior to the transferring step;

transferring the authentication key from the first messaging client to the second messaging client; and

authenticating the account user by the second messaging client using the authentication key.

3. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the plurality of client data includes a plurality of contact data, and further wherein the plurality of contact data comprises at least one account identifier.

4. A method for providing continuity between a plurality of messaging clients as recited in claim 3 wherein the plurality of contact data further comprises an account contact information associated with the at least one account identifier.

5. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the first messaging client further includes at least one user preference, the method further comprising:

transferring the at least one user preference from the first messaging client to the second messaging client; and

operating within the second communication connection by the second messaging client using the at least one user preference.

6. A method for providing continuity between a plurality of messaging clients as recited in claim 5 wherein the plurality of client data further comprises the at least one user preference.

7. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the first messaging client operates within a first messaging device, and further wherein the first messaging device includes a user interface, the method further comprising prior to the transferring step:

requesting the transfer of the plurality of client data by a user input to the user interface of the first messaging device.

8. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the second messaging client operates within a second messaging device, and further wherein the second messaging device includes a user interface, the method further comprising prior to the transferring step:

requesting the transfer of the plurality of client data by a user input to the user interface of the second messaging device.

9. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the second messaging client operates within a mobile device, wherein in the transferring step the transfer of the plurality of client data is in response to a movement of the mobile device.

10. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the second messaging client.

11. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the second messaging client operates within a second messaging device, wherein the second messaging device includes a data transfer application, and further wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the data transfer application.

12. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the first messaging client operates within a first messaging device, wherein the first messaging device includes a data transfer application, and further wherein in the transferring step the transfer of the plurality of client data is in response to an activation of the data transfer application.

13. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein in the transferring step the transfer of the plurality of client data is in response to the second messaging client establishing the second communication connection.

14. A method for providing continuity between a plurality of messaging clients as recited in claim 1 wherein the second messaging client operates within a second messaging device, and further wherein in the transferring step the transfer of the plurality of client data is in response to activating the second messaging device.

15. A method for providing continuity between a plurality of messaging clients as recited in claim 1 further comprising:

disconnecting the first messaging client from the first communication connection prior to the transferring step.

16. A method for providing continuity between a plurality of messaging clients as recited in claim 1 further comprising:

disconnecting the first messaging client from the first communication connection after the transferring step.

17. A method for providing continuity between a plurality of messaging clients as recited in claim 1, wherein the plurality of client data includes at least one client data portion, and further wherein the transferring step comprises transferring the at least one client data portion..

18. A method for providing continuity between a plurality of messaging clients as recited in claim 17 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a client data requirement, wherein the client data portion is determined using the client data requirement.

19. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing for a first messaging client a first communication connection including a plurality of client data;

establishing for a second messaging client a second communication connection; and

transferring the plurality of client data from the first messaging client to the second messaging client in response to the second communication connection.

20. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing for a first messaging client a first communication connection including a plurality of client data, wherein the first messaging client includes a first account identifier;

providing the first account identifier for the first messaging client to the messaging communication system;

transferring the plurality of client data from the first messaging client to a second messaging client, wherein the second messaging client includes a second account identifier;

providing the second account identifier from the second messaging client to the messaging communication system; and

establishing for the second messaging client a second communication connection including the plurality of client data using the second account identifier.

21. Within a messaging communication system having a message server for managing the communication of a plurality of messages among a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection including a plurality of client data between a first messaging client and the message server;

transferring the plurality of client data from the first messaging client to a second messaging client; and

establishing a second communication connection including the plurality of client data between the second messaging client and the message server.

22. A method for providing continuity between a plurality of messaging clients as recited in claim 21 further comprising:

authenticating an account user by the first messaging client using an authentication key prior to the transferring step.

transferring the authentication key from the first messaging client to the second messaging client; and

authenticating the account user by the second messaging client using the authentication key.

23. A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the plurality of client data includes a plurality of contact data, and further wherein the plurality of contact data comprises at least one account identifier.

24. A method for providing continuity between a plurality of messaging clients as recited in claim 23 wherein the plurality of contact data further comprises a contact information for the at least one account identifier.

25. A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the plurality of client data includes at least one user preference.

26. A method for providing continuity between a plurality of messaging clients as recited in claim 21 wherein the message server includes a server identity, wherein the plurality of client data includes the server identity, and further wherein the second communication connection is established using the server identity received within the plurality of client data.

27. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing at least one messaging session having a session identifier between the first messaging client and at least one other messaging client of the plurality of messaging clients;

transferring a plurality of session data for the first session connection including the session identifier from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of session data for the second messaging client; and

participating in the at least one messaging session in the second communication connection using the session identifier.

28. A method for providing continuity between a plurality of messaging clients as recited in claim 27 further comprising:

sending a notification of session data transfer to at least one other messaging client participating in the at least one messaging session.

29. A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification includes a client profile of the second messaging client.

30. A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification is sent from the first messaging client.

31. A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the notification is sent from the second messaging client.

32. A method for providing continuity between a plurality of messaging clients as recited in claim 28 wherein the messaging communication system further includes a messaging server, and further wherein the notification is sent from the messaging server.

33. A method for providing continuity between a plurality of messaging clients as recited in claim 28 further comprising:

informing an account user of the session data transfer by the at least one other messaging client in response to receiving the notification.

34. A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the messaging session includes a session history having at least one session portion, and further wherein the plurality of session data further includes the session portion.

35. A method for providing continuity between a plurality of messaging clients as recited in claim 34 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a session data requirement, wherein the session portion is determined using the session data requirement.

36. A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data further includes a session priority indicator, wherein the session priority indicator determines a priority of the messaging session within the messaging communication system.

37. A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data further includes a session priority indicator, wherein the session priority indicator determines a priority of the messaging session within the second messaging client.

38. A method for providing continuity between a plurality of messaging clients as recited in claim 27 wherein the plurality of session data includes at least one user preference.

39. A method for providing continuity between a plurality of messaging clients as recited in claim 27 further comprising:

sending a notification of session data transfer, wherein the notification includes a client profile for the second messaging client; and

sending a plurality of content to the second messaging client using the client profile.

40. A method for providing continuity between a plurality of messaging clients as recited in claim 39 wherein the notification is sent from the first messaging client and the plurality of content is sent from at least one other messaging client.

41. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing a plurality of messaging sessions each having a session identifier between the first messaging client and at least one of the plurality of messaging clients;

transferring a plurality of client data for the first communication connection including at least one session identifier for at least one messaging session from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of client data for the second messaging client; and

participating in the at least one messaging session in the second communication connection using the session identifier.

42. A method for providing continuity between a plurality of messaging clients as recited in claim 41 further comprising:

sending a notification of data transfer to at least one of the plurality of messaging clients participating in the at least one messaging session.

43. A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification is sent from the first messaging client.

44. A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification is sent from the second messaging client.

45. A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the notification includes a client profile of the second messaging client.

46. A method for providing continuity between a plurality of messaging clients as recited in claim 41 further comprising:

sending a notification of data transfer, wherein the notification includes a client profile for the second messaging client; and

sending a plurality of content to the second messaging client using the client profile.

47. A method for providing continuity between a plurality of messaging clients as recited in claim 41 wherein the messaging session includes a session history having at least one session portion, and further wherein the plurality of client data further includes the session portion.

48. A method for providing continuity between a plurality of messaging clients as recited in claim 47 further comprising prior to the transferring step, sending from the second messaging client to the first messaging client a client data requirement, wherein the session portion is determined using the client data requirement.

49. A method for providing continuity between a plurality of messaging clients as recited in claim 41 wherein the plurality of client data further includes a session priority indicator, wherein the session priority indicator determines the priority of the messaging session within the messaging communication system.

50. A method for providing continuity between a plurality of messaging clients as recited in claim 42 wherein the plurality of client data includes at least one user preference.

51. Within a messaging communication system having a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client;

establishing at least one messaging session having a session identifier between the first messaging client and at least one other messaging client of the plurality of messaging clients;

transferring a plurality of client data for the first communication connection including the session identifier from the first messaging client to a second messaging client;

establishing a second communication connection including the plurality of client data for the second messaging client; and

adding the second messaging client to the at least one messaging session using the session identifier.

52. Within a messaging communication system having a message server for managing a plurality of multiple user messaging sessions, wherein the multiple user messaging sessions comprise communication of a plurality of session messages among a plurality of messaging clients, a method for providing continuity between the plurality of messaging clients comprising:

establishing a first communication connection for a first messaging client within a multiple user messaging session of the message server;

transferring a plurality of client data for the first communication connection from the first messaging client to a second messaging client;

sending a data transfer message to the message server wherein the data transfer message includes a session reservation for the second messaging client; and

establishing a second communication connection for the second messaging client within the multiple user messaging session of the message server using the plurality of client data.

53. A method for providing continuity between a plurality of messaging clients as recited in claim 52 wherein the first messaging client has a first client identifier, wherein the multiple user messaging session has a session identifier, wherein the second messaging client has a second client identifier, wherein the plurality of client data includes the session identifier, and further wherein the data transfer message includes the session identifier, the first client identifier, and the second client identifier.

54. A method for providing continuity between a plurality of messaging clients as recited in claim 53, wherein the multiple user messaging session includes at least one other messaging client, the method further comprising:

sending a notification of data transfer to the at least one other messaging client.

55. A plurality of messaging clients within a messaging communication system for providing continuity between the plurality of messaging clients comprising:

a first messaging client, for establishing a first communication connection including a plurality of client data; and

a second messaging client for receiving the plurality of client data from the first messaging client and for establishing a second communication connection including the plurality of client data.

56. A plurality of messaging clients as recited in claim 55 wherein the first messaging client operates within a first messaging device and the second messaging client operates within a second messaging device.

57. A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes:

a memory coupled to the first messaging client for storing the plurality of client data, wherein the first messaging client accesses the plurality of client data from the memory, and further wherein the first messaging client transfers the plurality of client data to the second messaging device.

58. A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes:

a memory coupled to the first messaging client for storing the plurality of client data, wherein the first messaging client accesses the plurality of client data from the memory, and

a data transfer application coupled to the first messaging client for transferring the plurality of client data to the second messaging device.

59. A plurality of messaging clients as recited in claim 56 wherein the second messaging device includes:

a memory coupled to the second messaging client, wherein the second messaging client receives the plurality of client data and stores the plurality of client data in the memory.

60. A plurality of messaging clients as recited in claim 56 wherein the second messaging device includes:

a data transfer application coupled to the second messaging client for receiving the plurality of client data, wherein the second messaging client processes the received plurality of client data, and

a memory coupled to the second messaging client for storing the plurality of client data.

61. A plurality of messaging clients as recited in claim 56 wherein the first messaging device is a fixed device and further wherein the second device is a mobile device.

62. A plurality of messaging clients as recited in claim 56 wherein the first messaging device includes a first memory interconnect for connecting the first messaging device to a memory storage device, wherein the second messaging device includes a second memory interconnect for connecting the second messaging device to the memory storage device, wherein the first messaging device stores the plurality of client data on the memory storage device, and further wherein the second messaging device receives the plurality of client data from the memory storage device connecting to the second memory interconnect.

63. A plurality of messaging clients as recited in claim 62 wherein the first messaging client and the second messaging client operate within a messaging device.

64. A messaging communication system for providing continuity between a plurality of messaging clients comprising:

the plurality of messaging clients including:

a first messaging client,

a second messaging client, and

at least one other messaging client;

a message server for managing the communication of a plurality of session messages among the plurality of messaging clients, wherein the message server is programmed to:

establish a first communication connection for the first messaging client,

establish at least one messaging session having a session identifier between the first messaging client and the at least one other messaging client,

transfer a plurality of client data for the first communication connection including the session identifier from the first messaging client to the second messaging client,

establish a second communication connection including the plurality of client data for the second messaging client, and

transfer the at least one messaging session from the first messaging client to the second messaging client using the session identifier.

65. A messaging communication system for providing continuity between a plurality of messaging clients as recited in claim 64 wherein the message server includes a server memory, wherein the first messaging client stores the plurality of client data in the server memory, and further wherein the second messaging client retrieves the plurality of client data from the server memory for use in the operation of the second communication connection.

66. A messaging communication system as recited in claim 64 wherein the first messaging client operates within a first messaging device and the second messaging client operates within a second messaging device.

67. A messaging communication system as recited in claim 64 wherein the first messaging client and the second messaging client operate within a messaging device.

68. A messaging communication system as recited in claim 64 wherein the messaging communication system comprises a first messaging system and a second messaging system, wherein the first messaging client functions within the first messaging system, and further wherein the second messaging client functions within the second messaging system.

69. A messaging communication system as recited in claim 68 wherein the first messaging system comprises a wired messaging system and further wherein the second messaging system comprises a wireless messaging system.

70. A messaging communication system as recited in claim 68 wherein the first messaging system comprises a wireless messaging system and further wherein the second messaging system comprises a wired messaging system.

71. A messaging communication system for providing continuity between a plurality of messaging clients comprising:

the plurality of messaging clients including:

a first messaging client for establishing a first communication connection including a plurality of client data, and

a second messaging client for establishing a second communication connection including the plurality of client data; and

a server memory coupled to the plurality of messaging clients, wherein the first messaging client stores the plurality of client data in the server memory, and further wherein the second messaging client retrieves the plurality of client data from the server memory for use in the operation of the second communication connection.

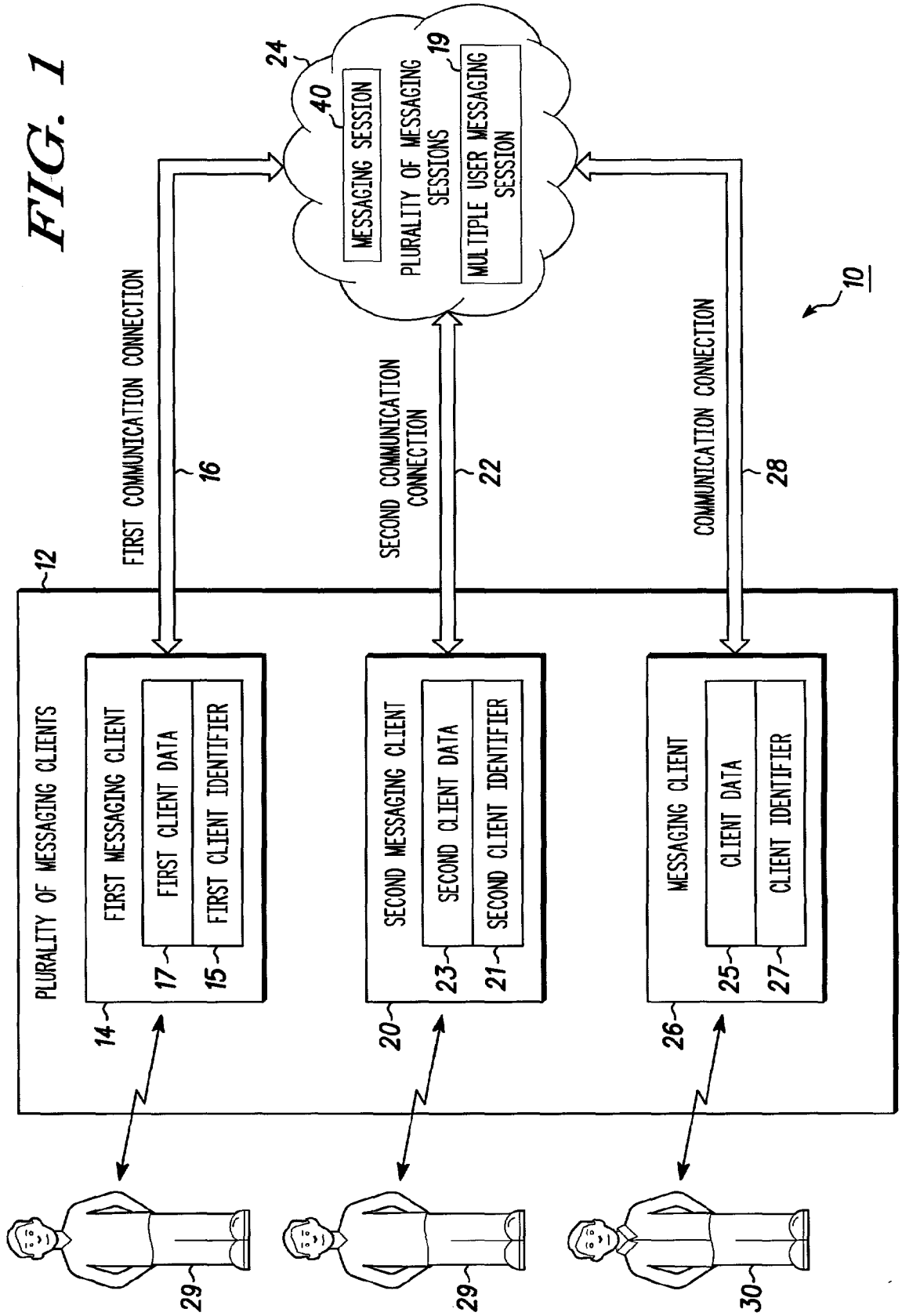
72. A messaging communication system as recited in claim 71 wherein the server memory is contained within a message server of the messaging communication system.

SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

Abstract of the Disclosure

A messaging communication system (10) includes a plurality of messaging clients (12). A first messaging client (14) establishes a first communication connection (16) operating using a plurality of client data (25). The first messaging client (14) transfers the plurality of client data (25) to a second messaging client (20). The second messaging client (20) establishes a second communication connection (22) operating using the plurality of client data (25).

FIG. 1



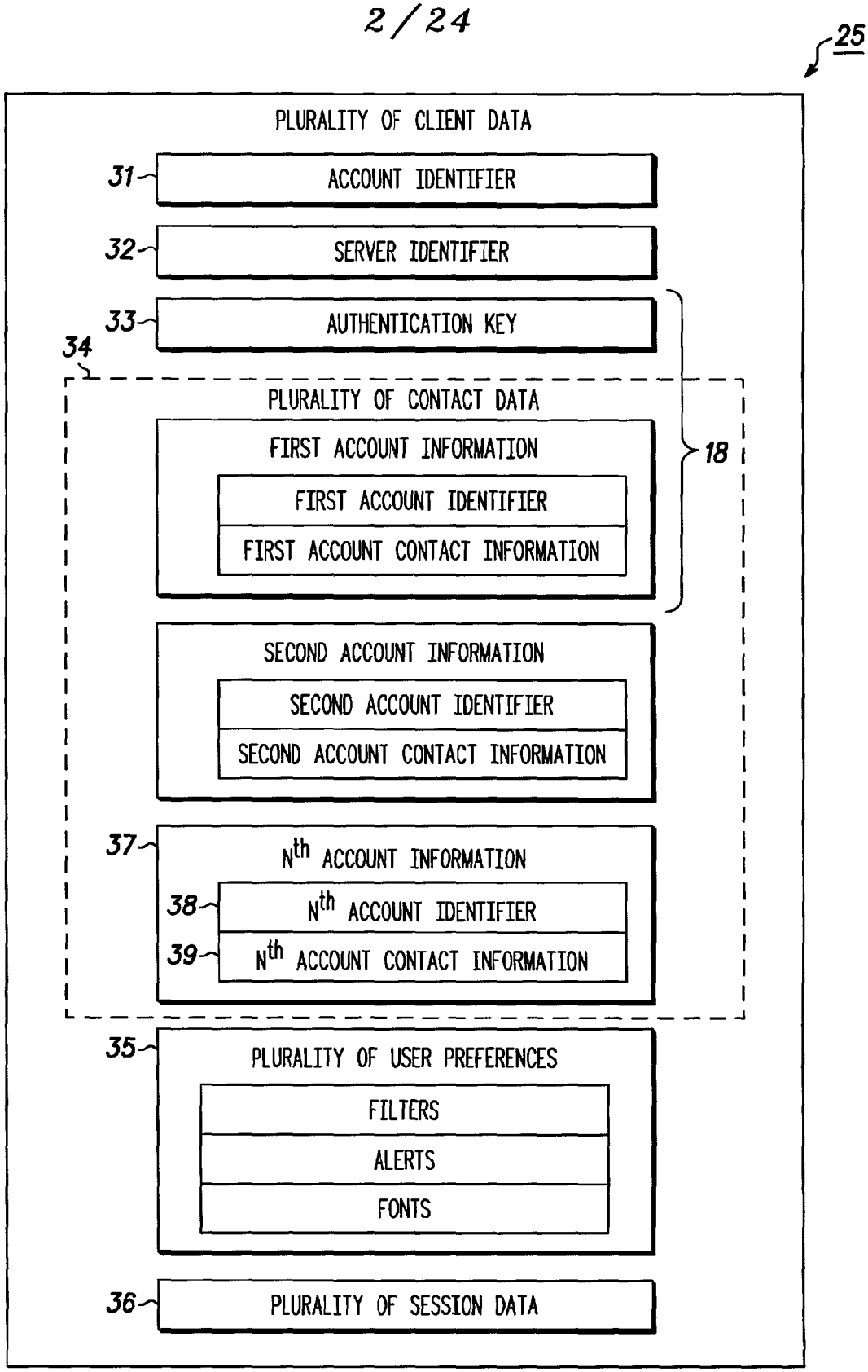


FIG.2

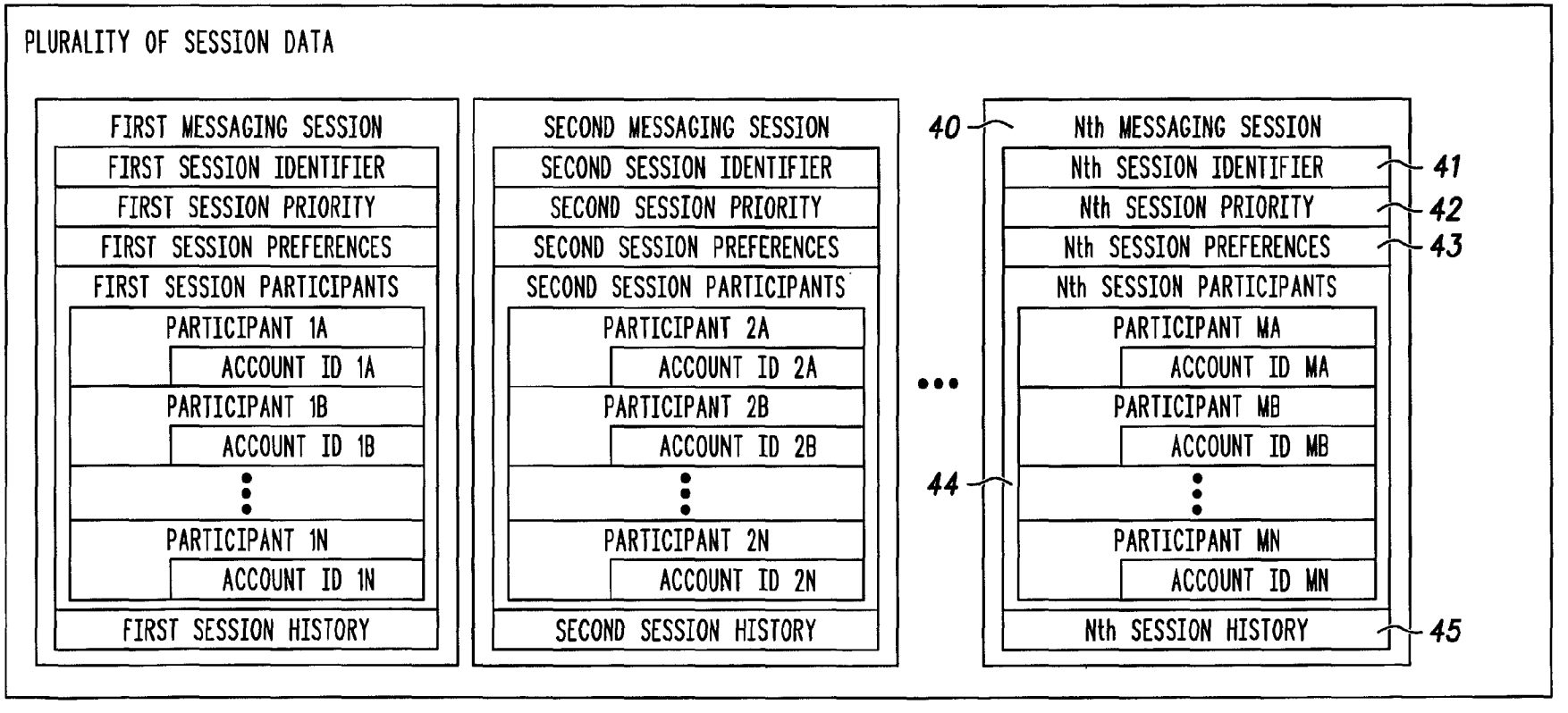


FIG.3

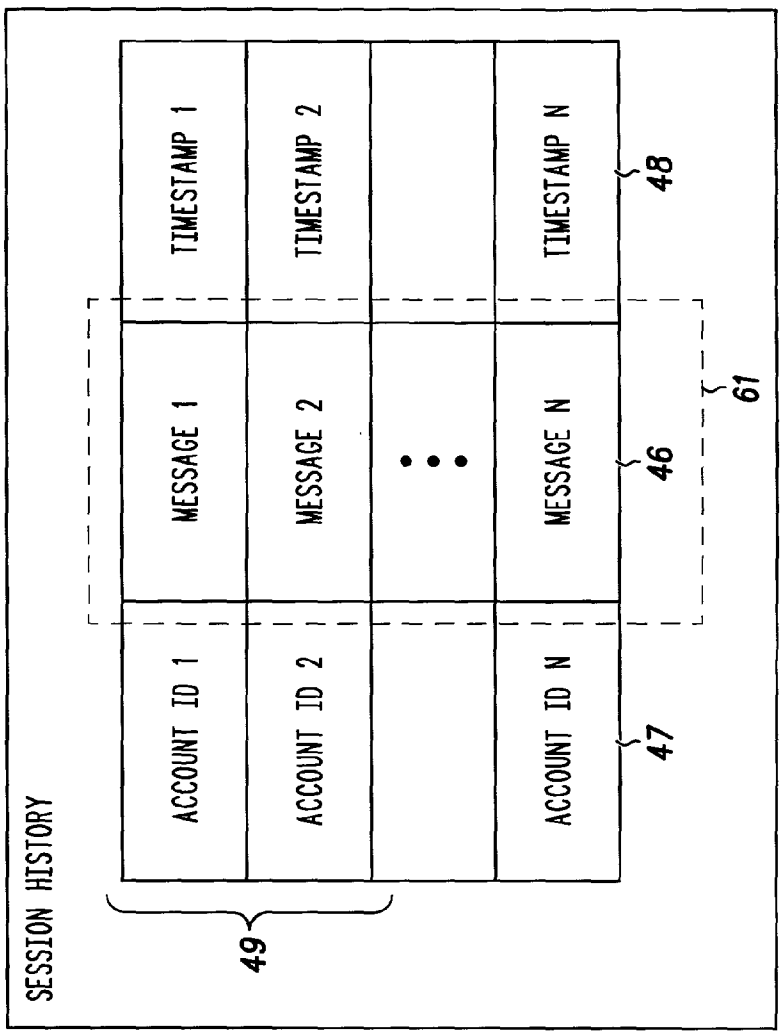
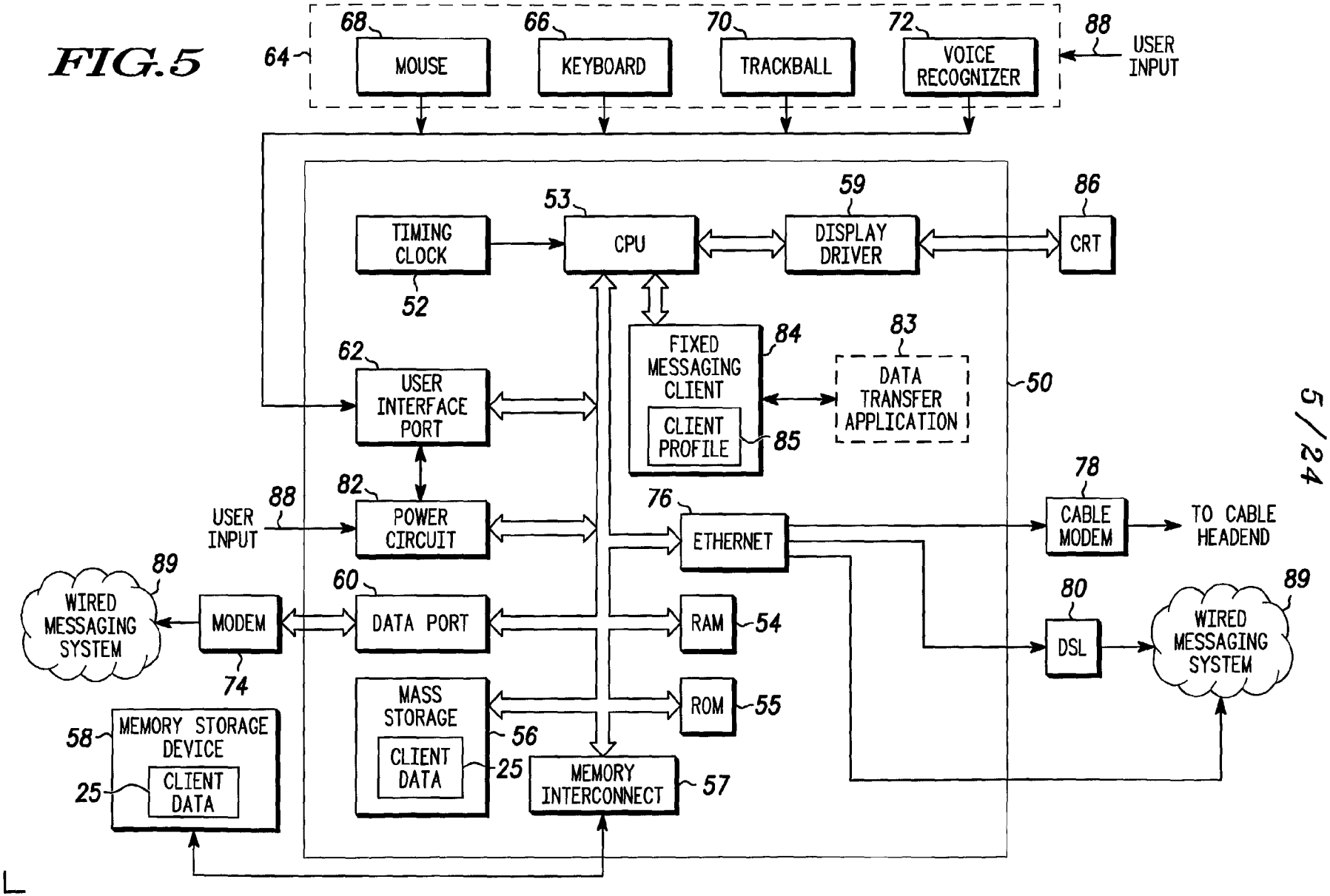

SESSION HISTORY
ACCOUNT ID 1
ACCOUNT ID 2
ACCOUNT ID N
MESSAGE 1
MESSAGE 2
MESSAGE N
TIMESTAMP 1
TIMESTAMP 2
TIMESTAMP N
49
47
46
48
61
45

FIG. 4

FIG.5



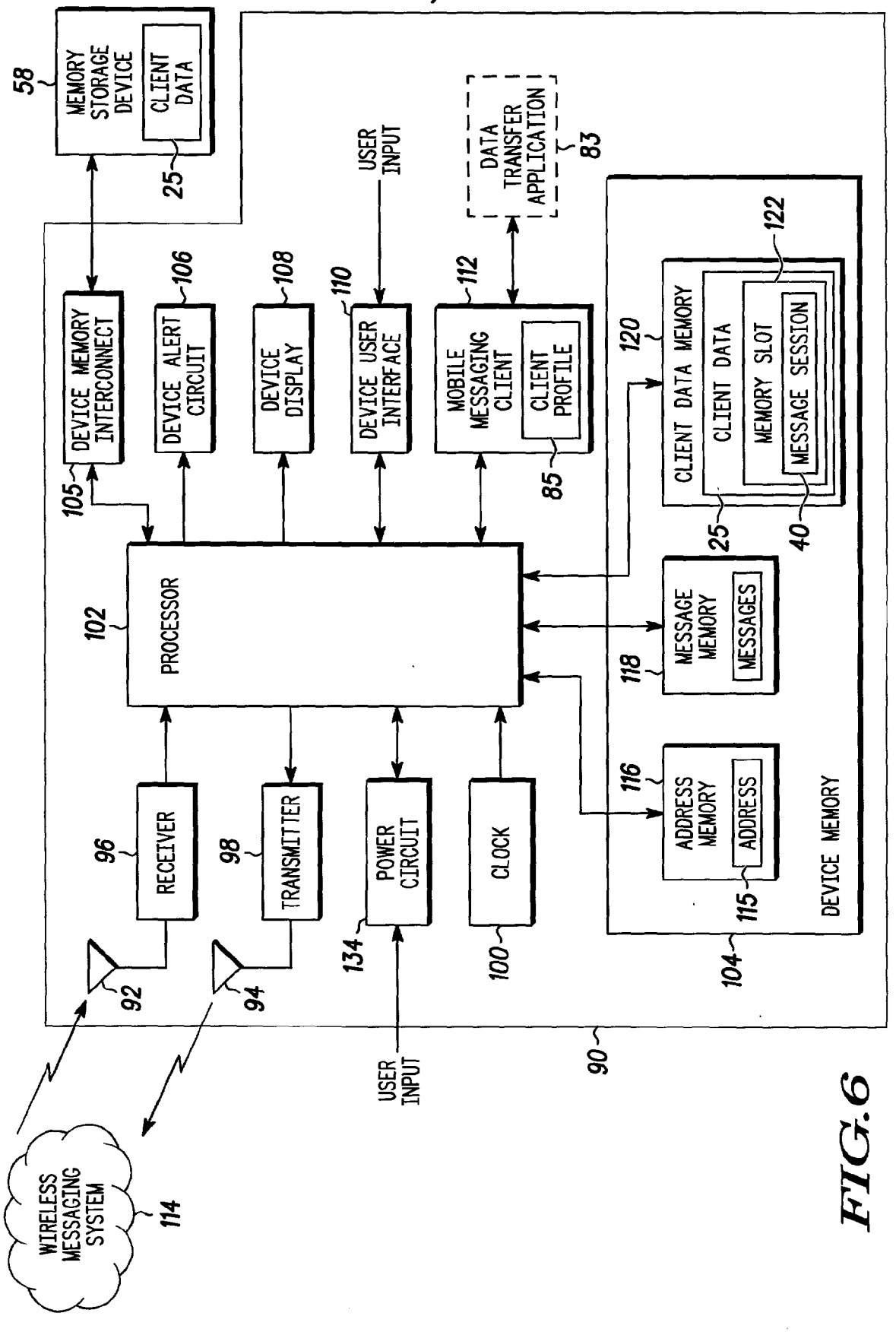


FIG.6

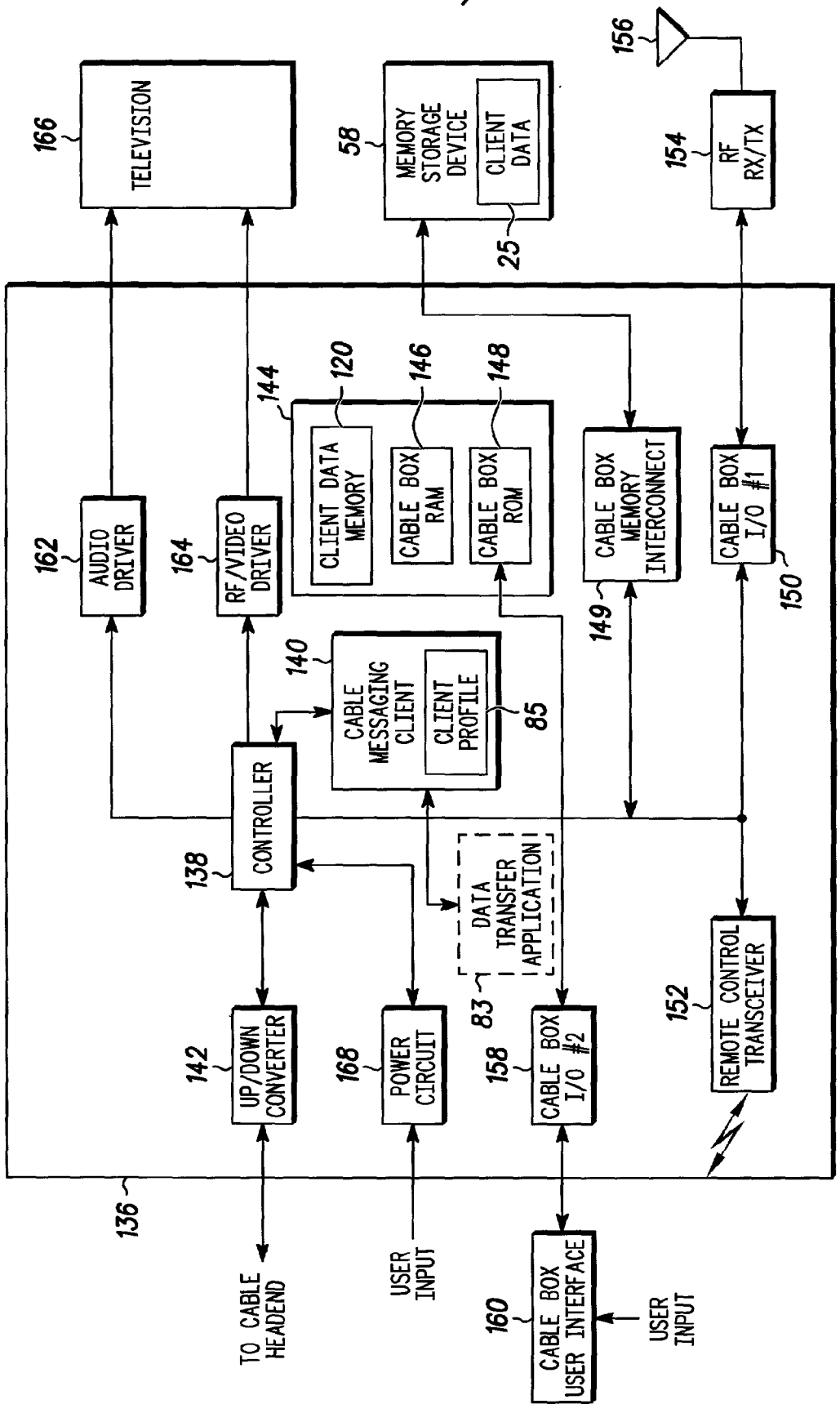


FIG. 7

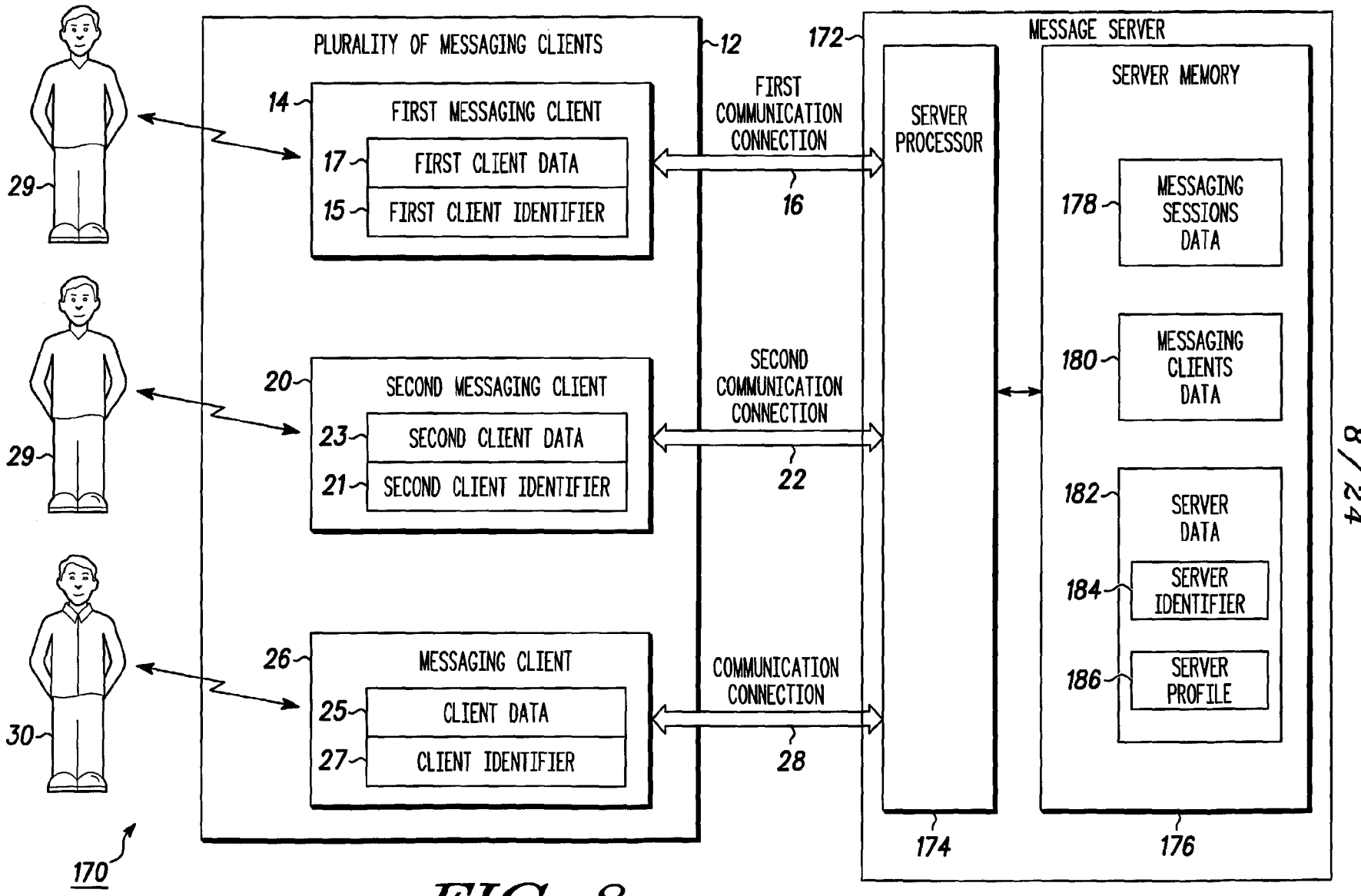


FIG. 8

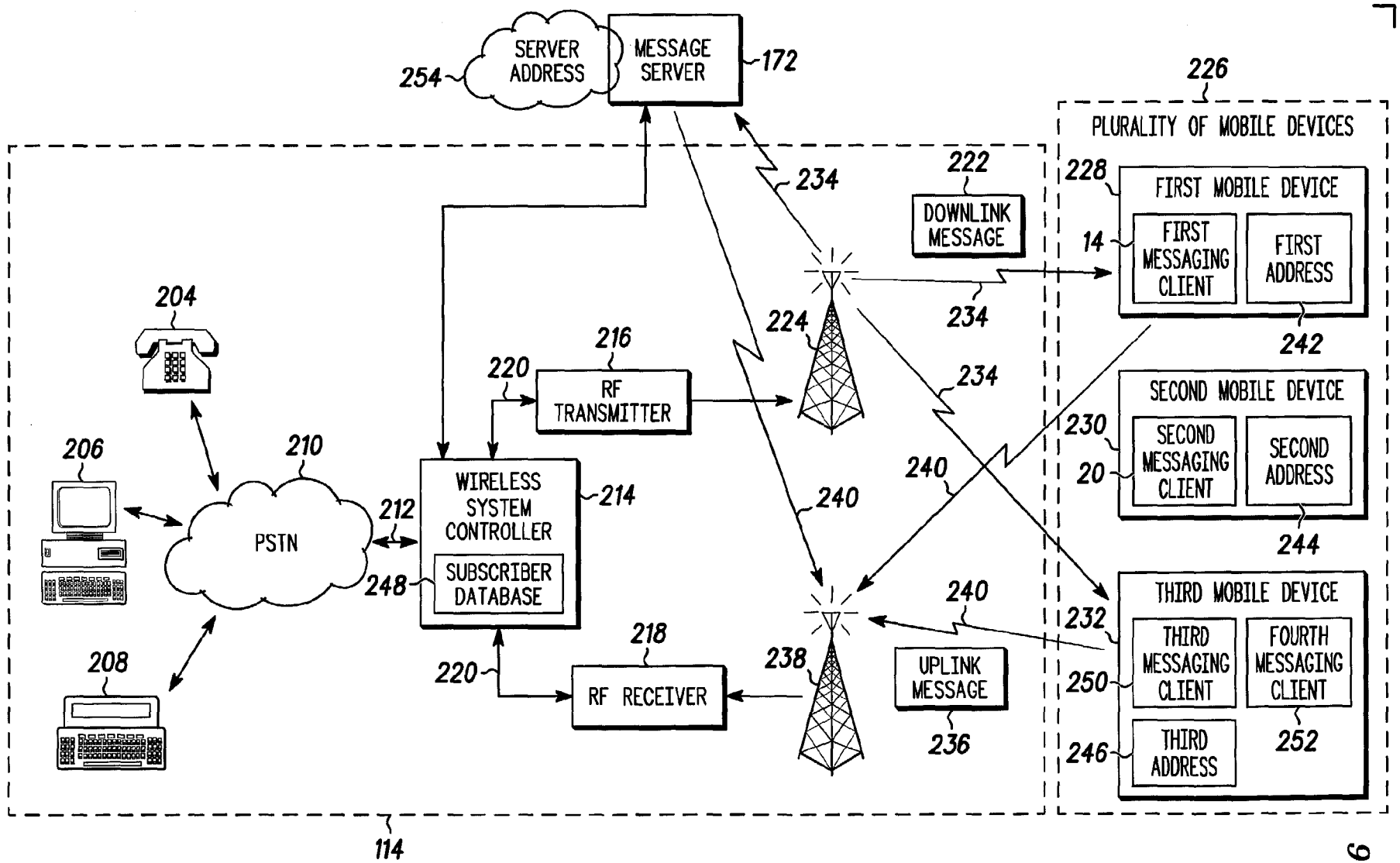


FIG.9

FIG.10

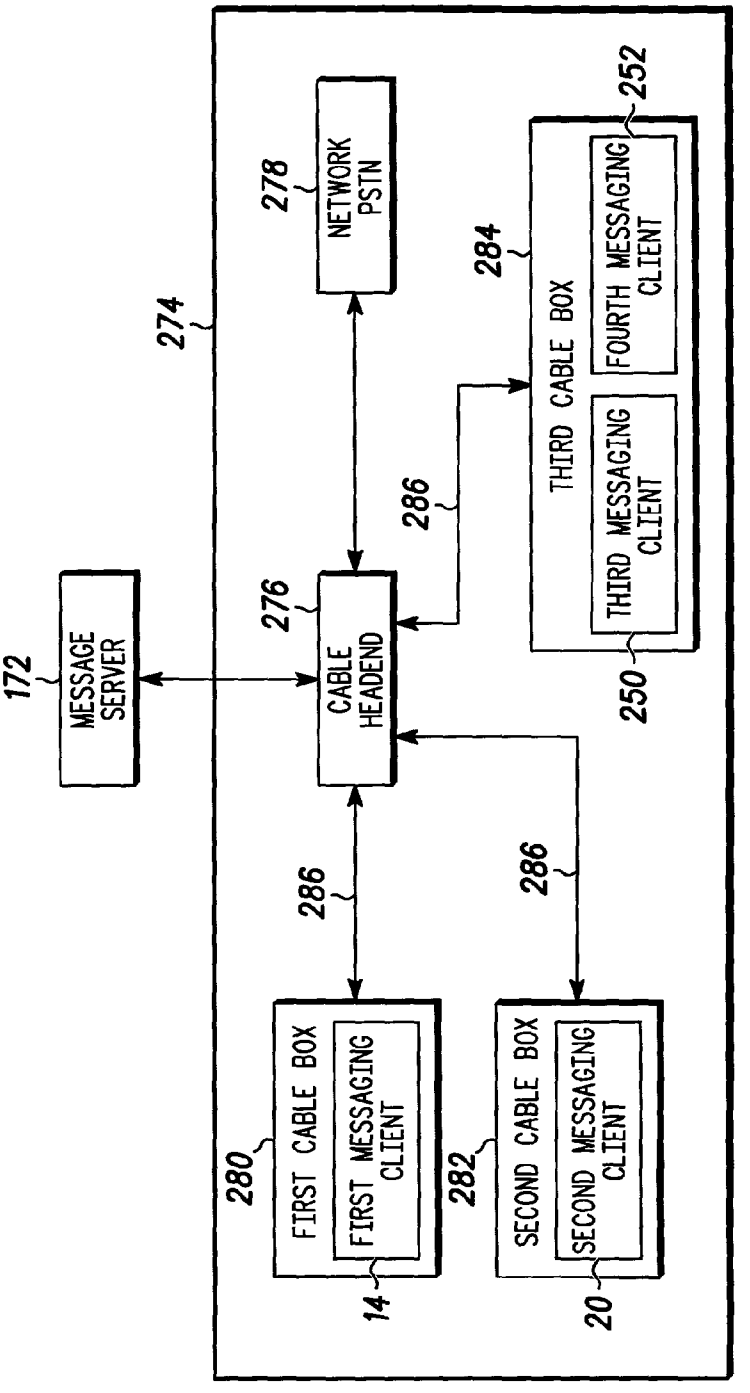


FIG. 11

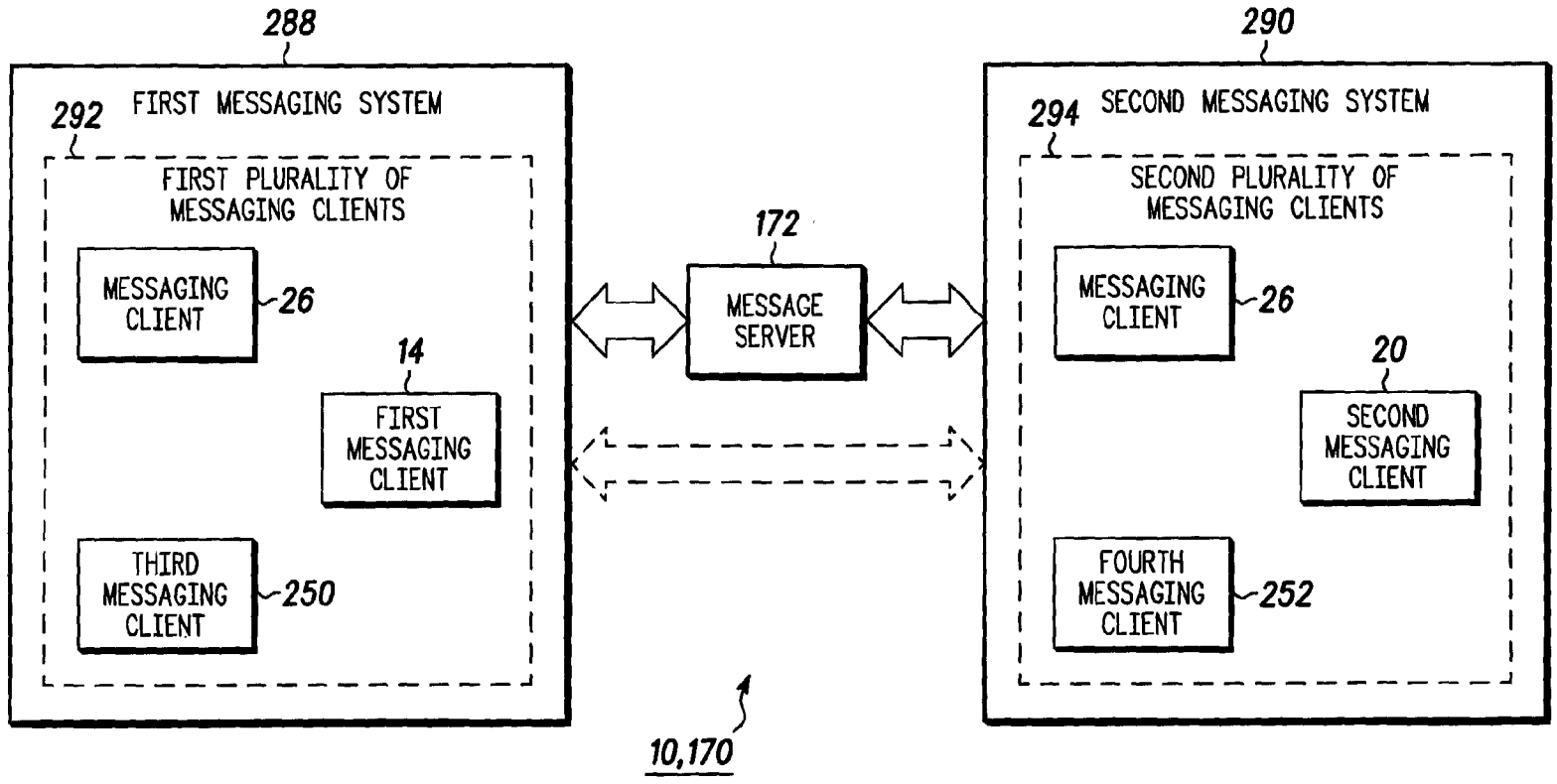


FIG. 12

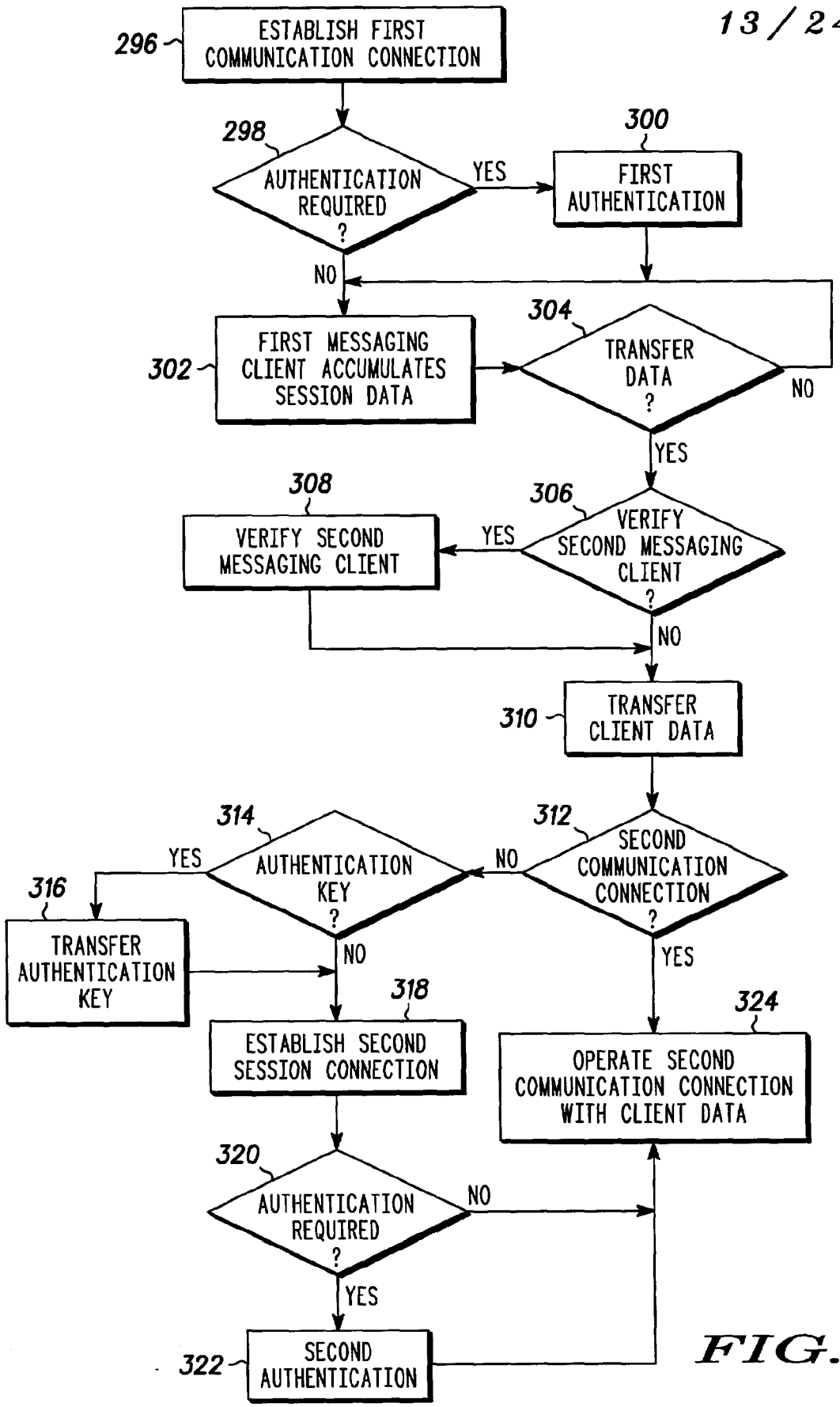


FIG.13

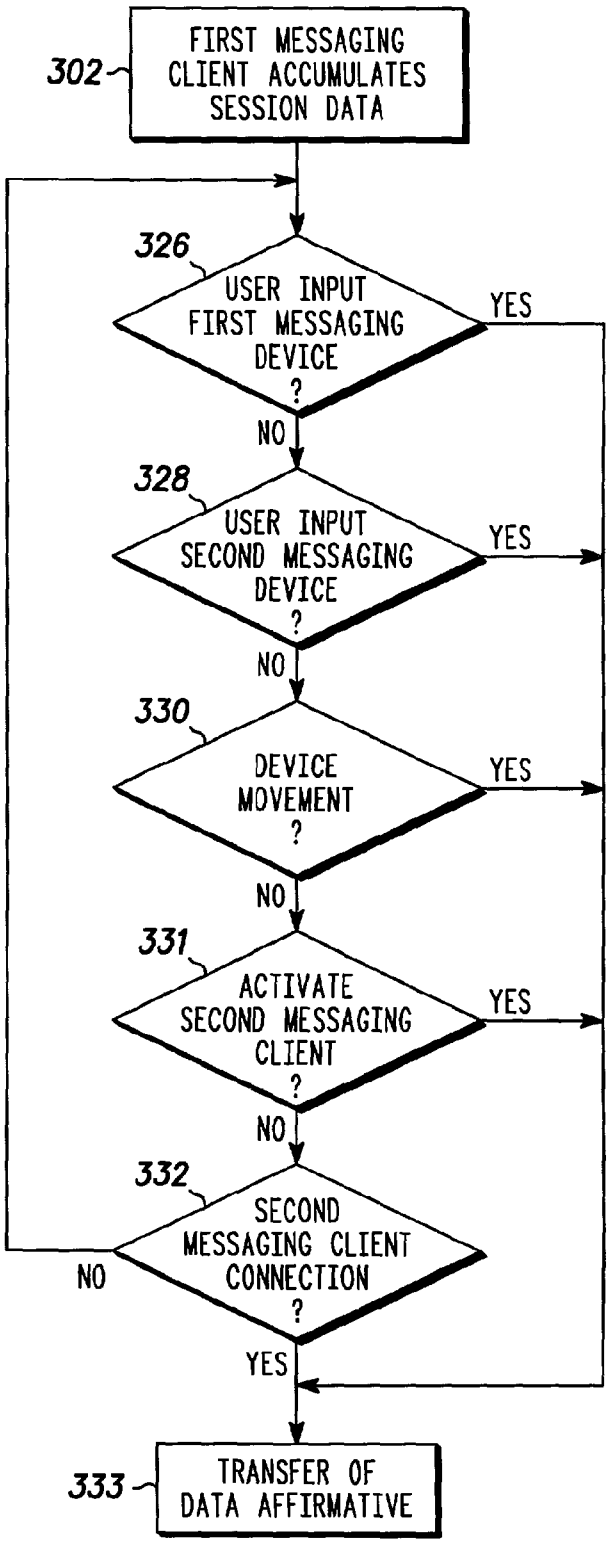


FIG.14

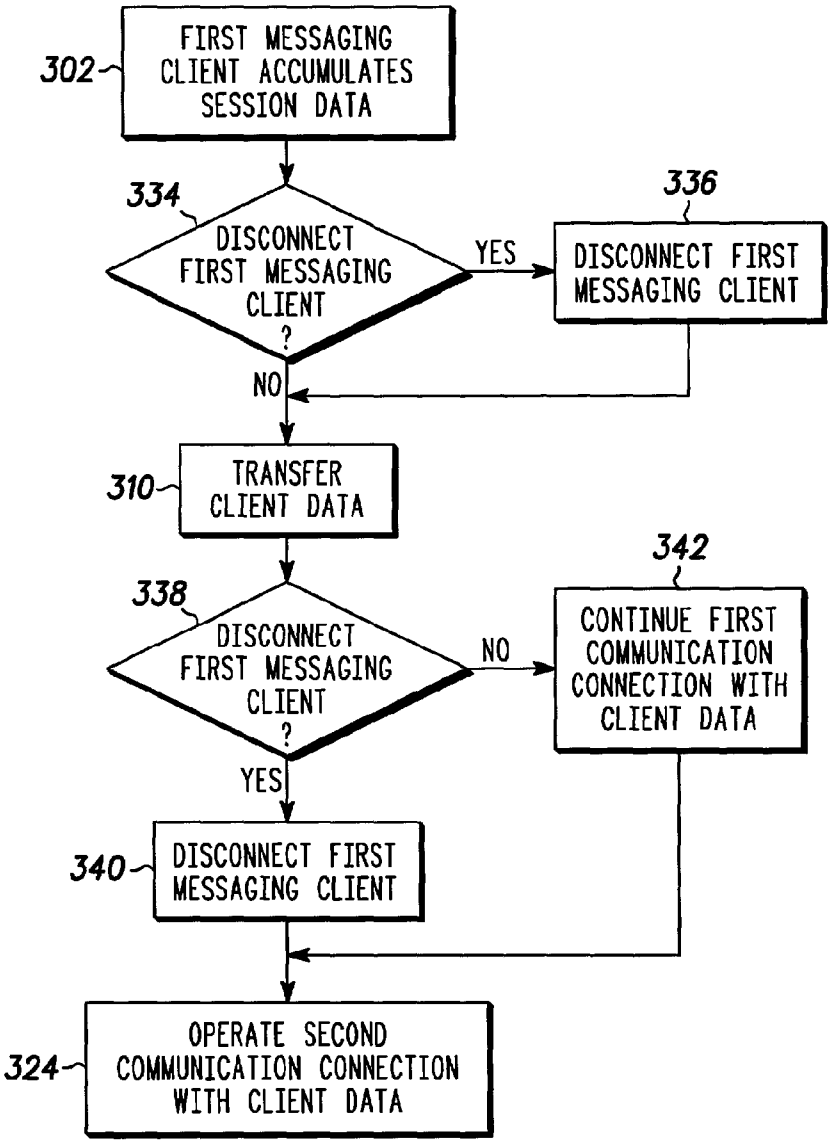


FIG.15

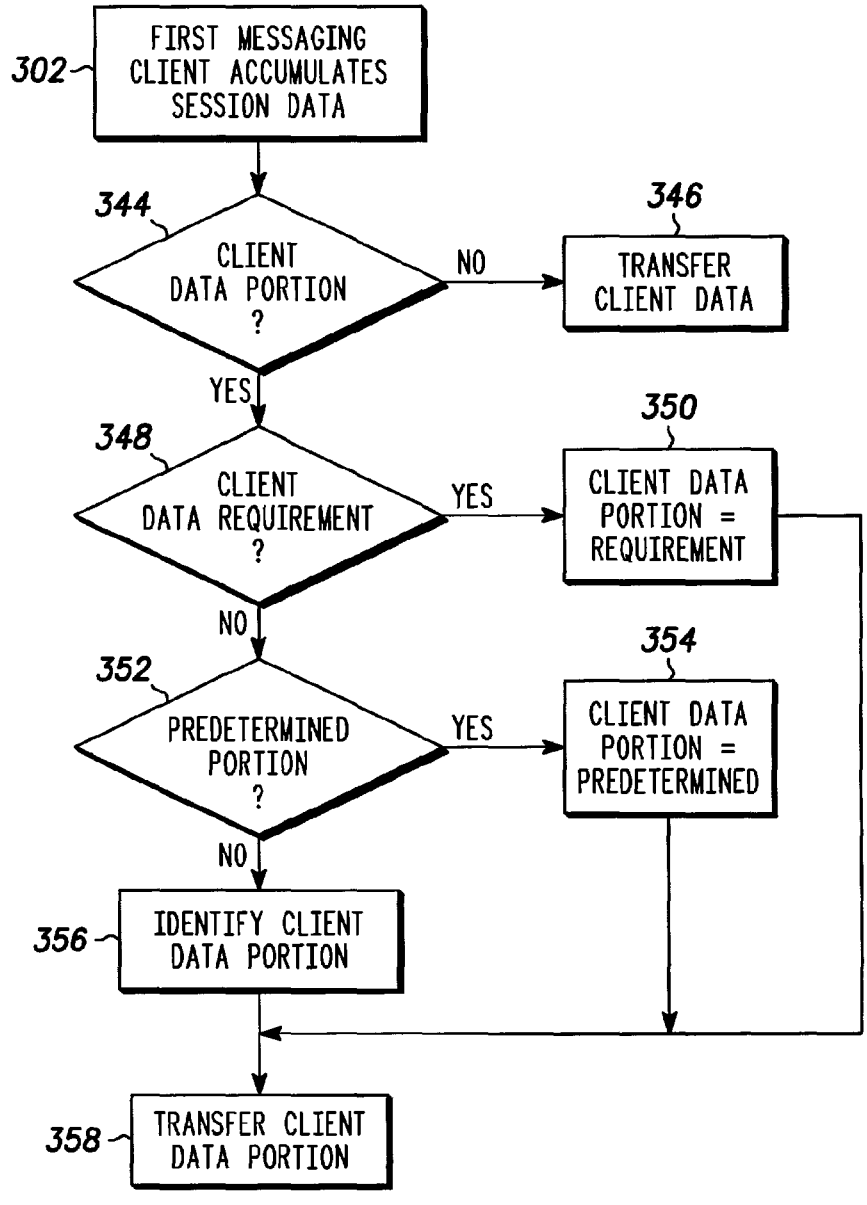
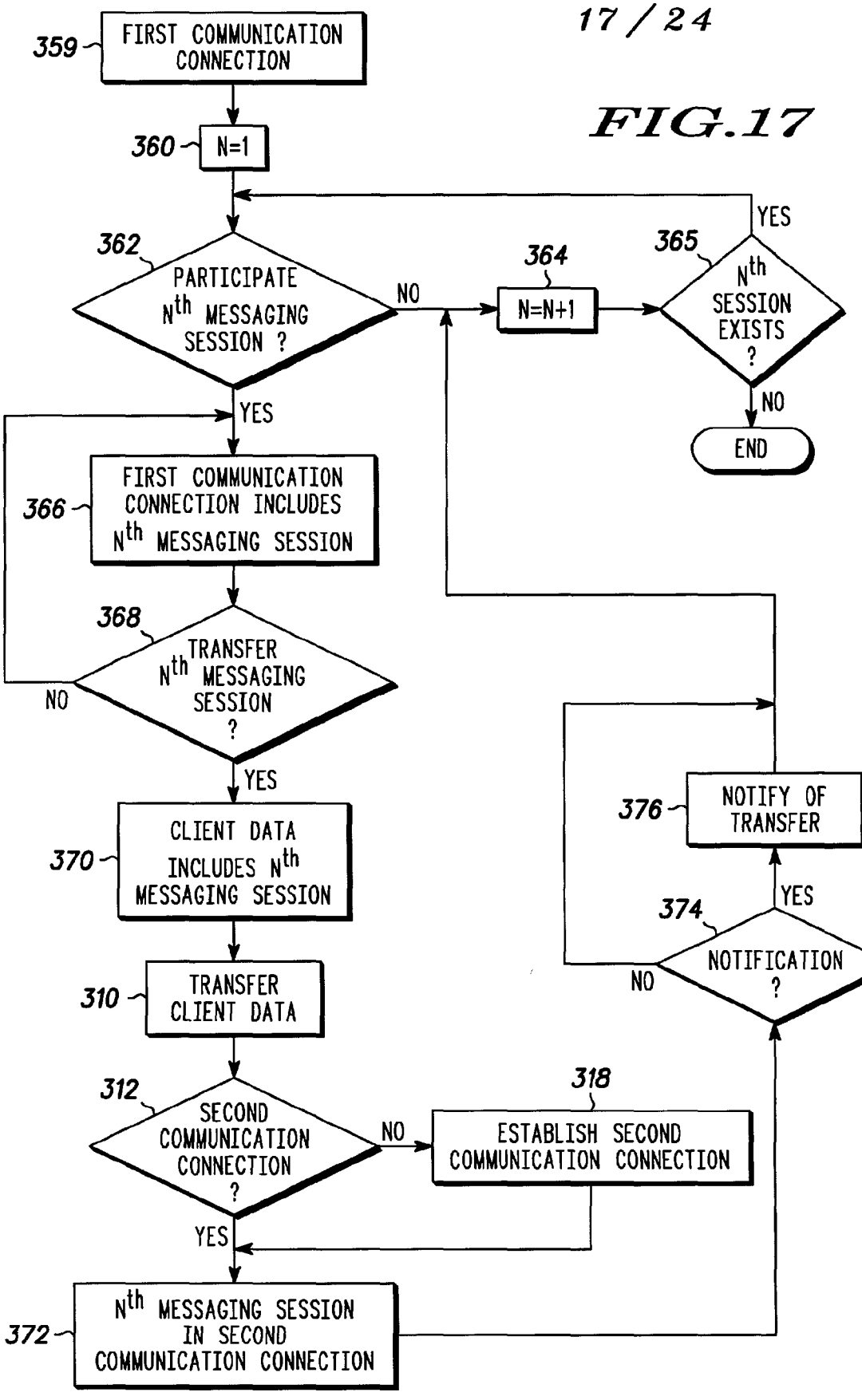


FIG.16

FIG.17



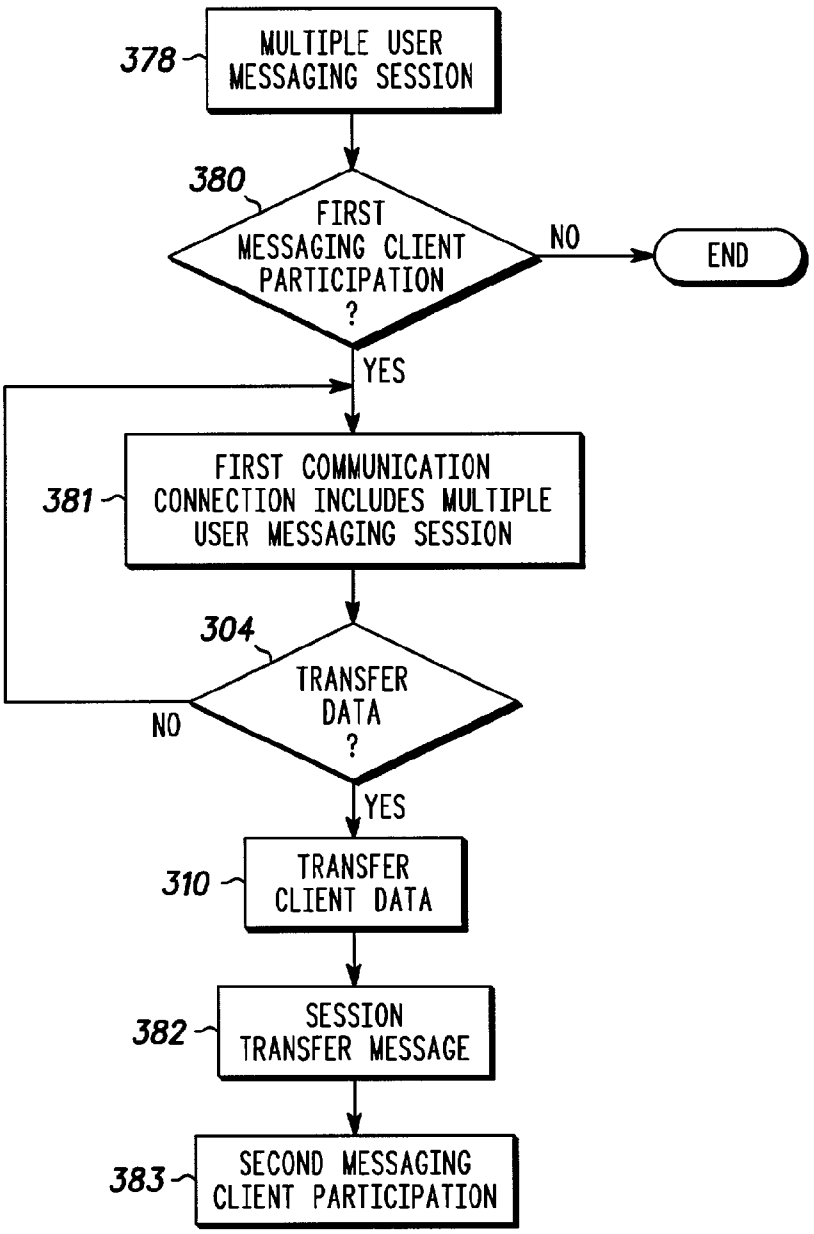


FIG.18

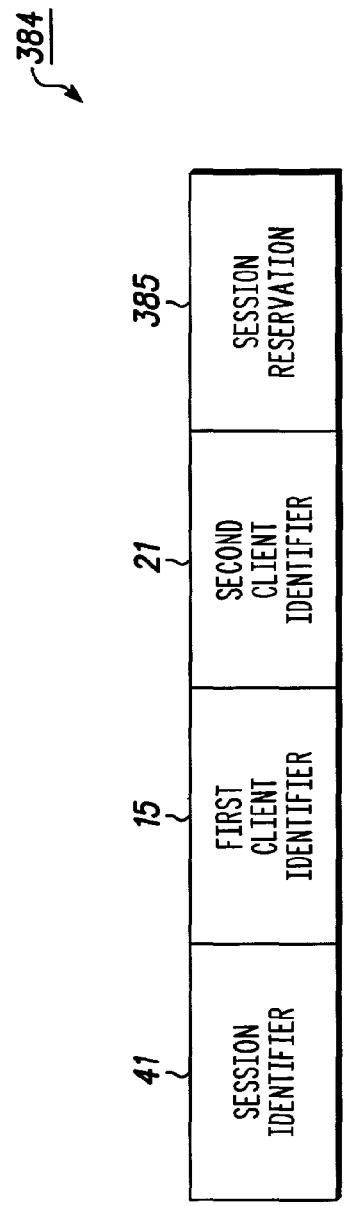

384
385
21
15
41
SESSION RESERVATION
SECOND CLIENT IDENTIFIER
FIRST CLIENT IDENTIFIER
SESSION IDENTIFIER

FIG. 19

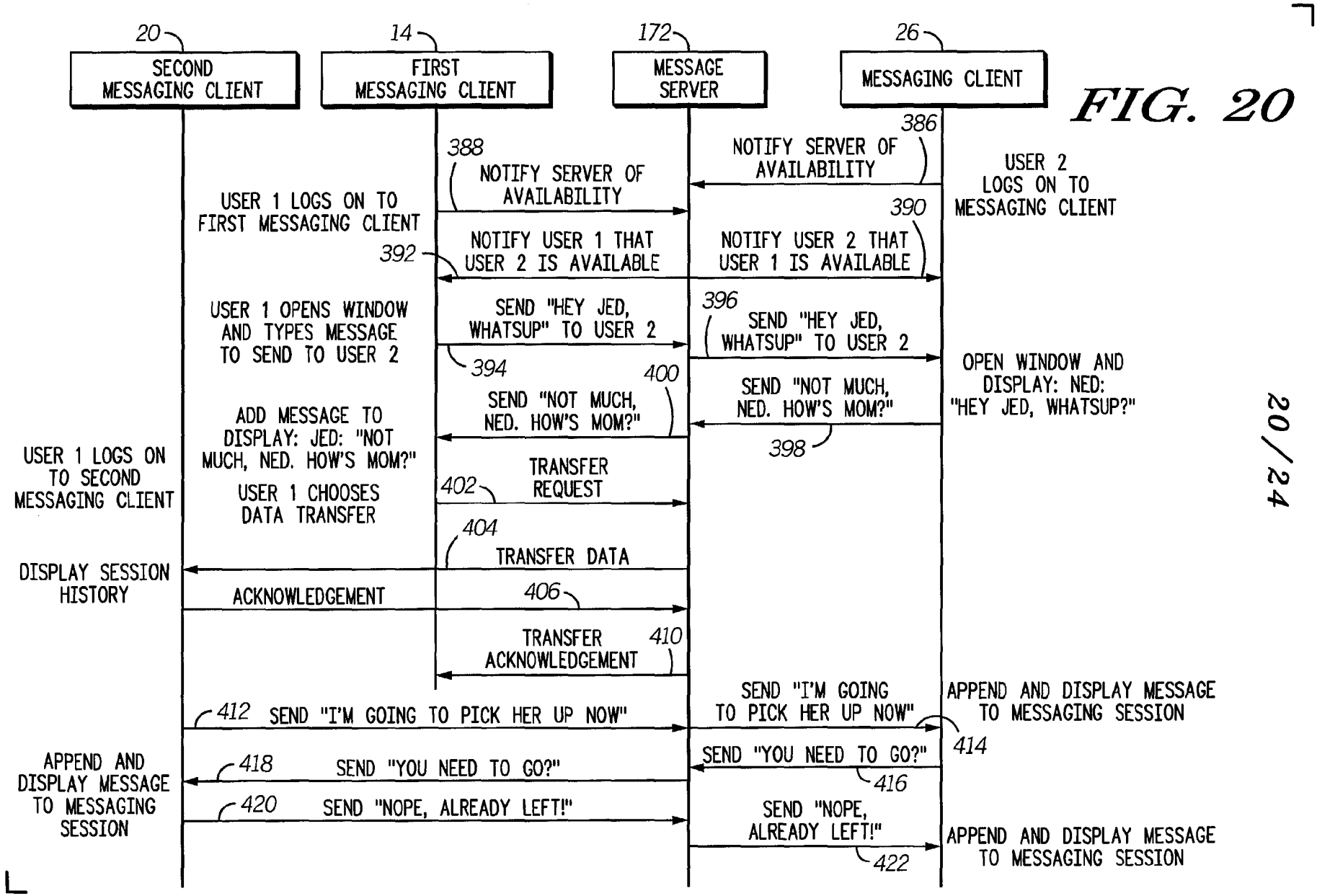


FIG. 20

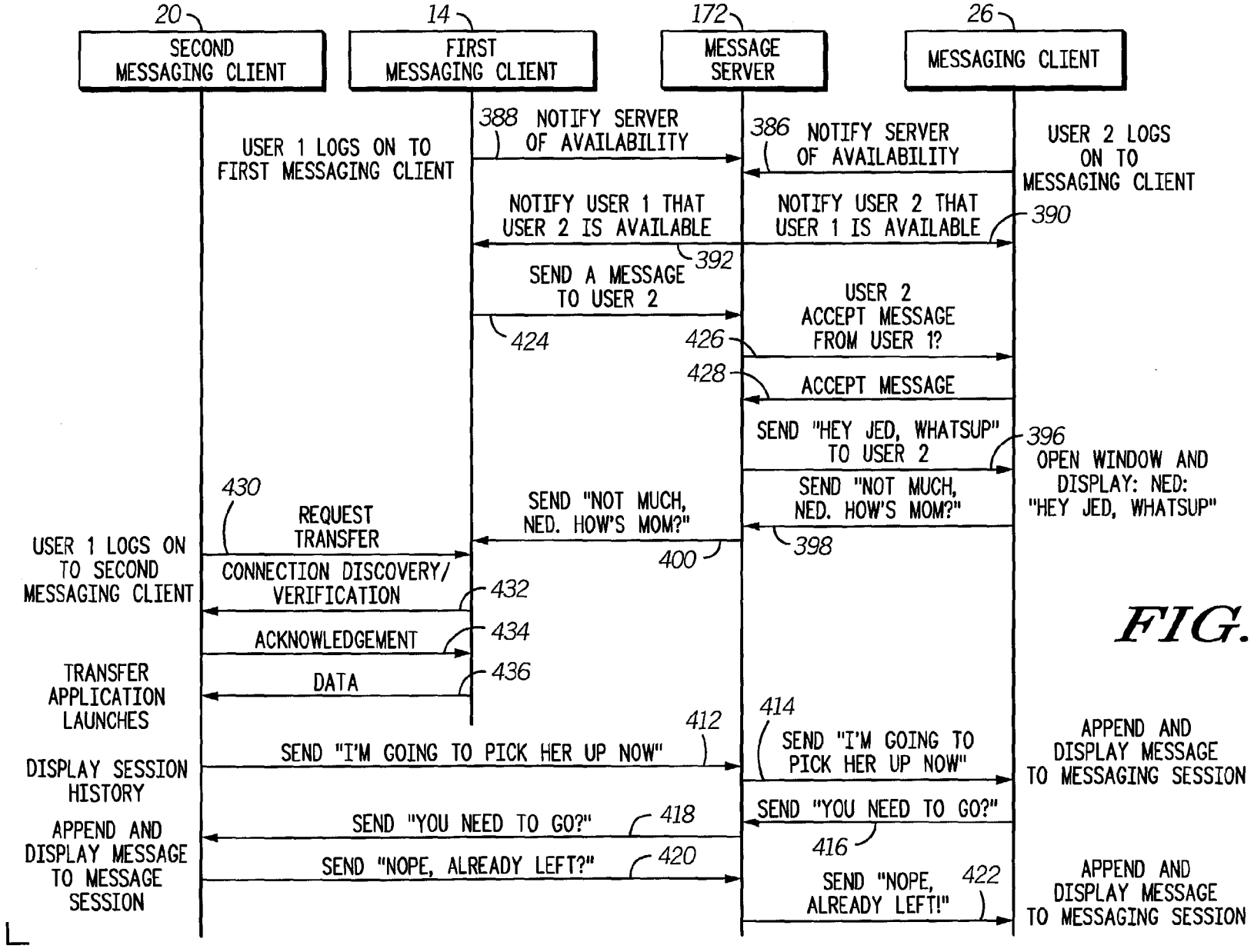


FIG. 21

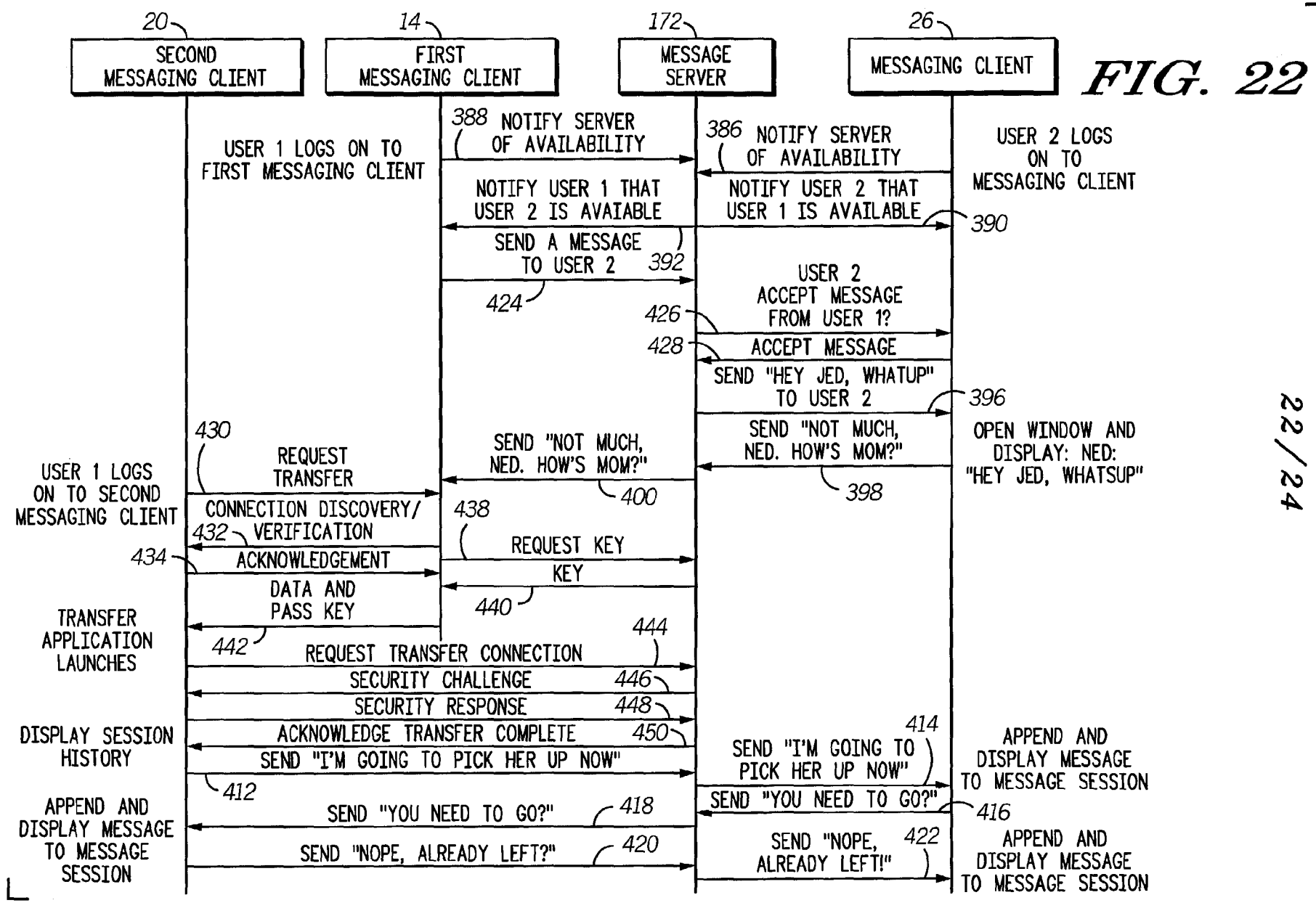
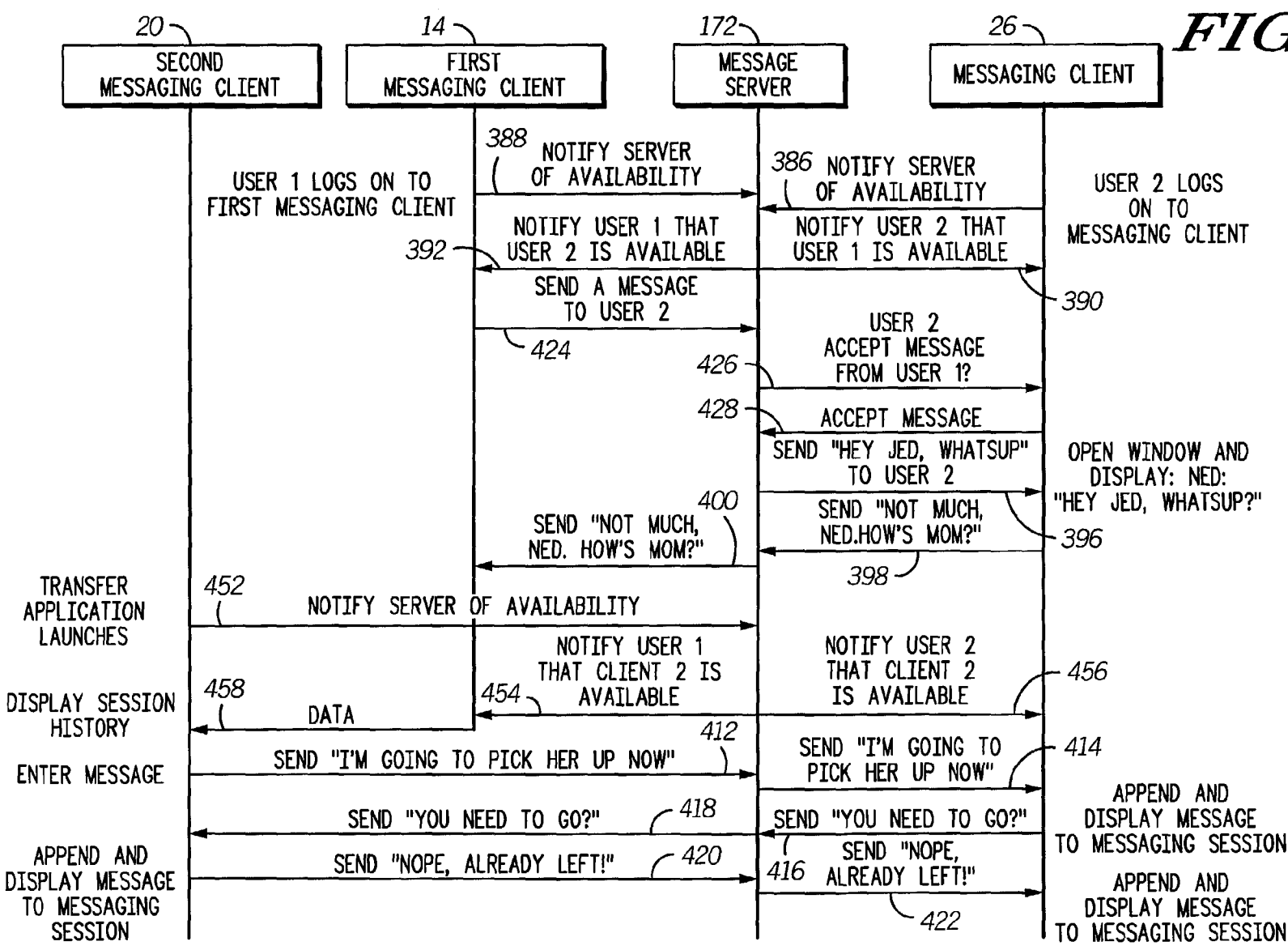


FIG. 22

FIG. 23



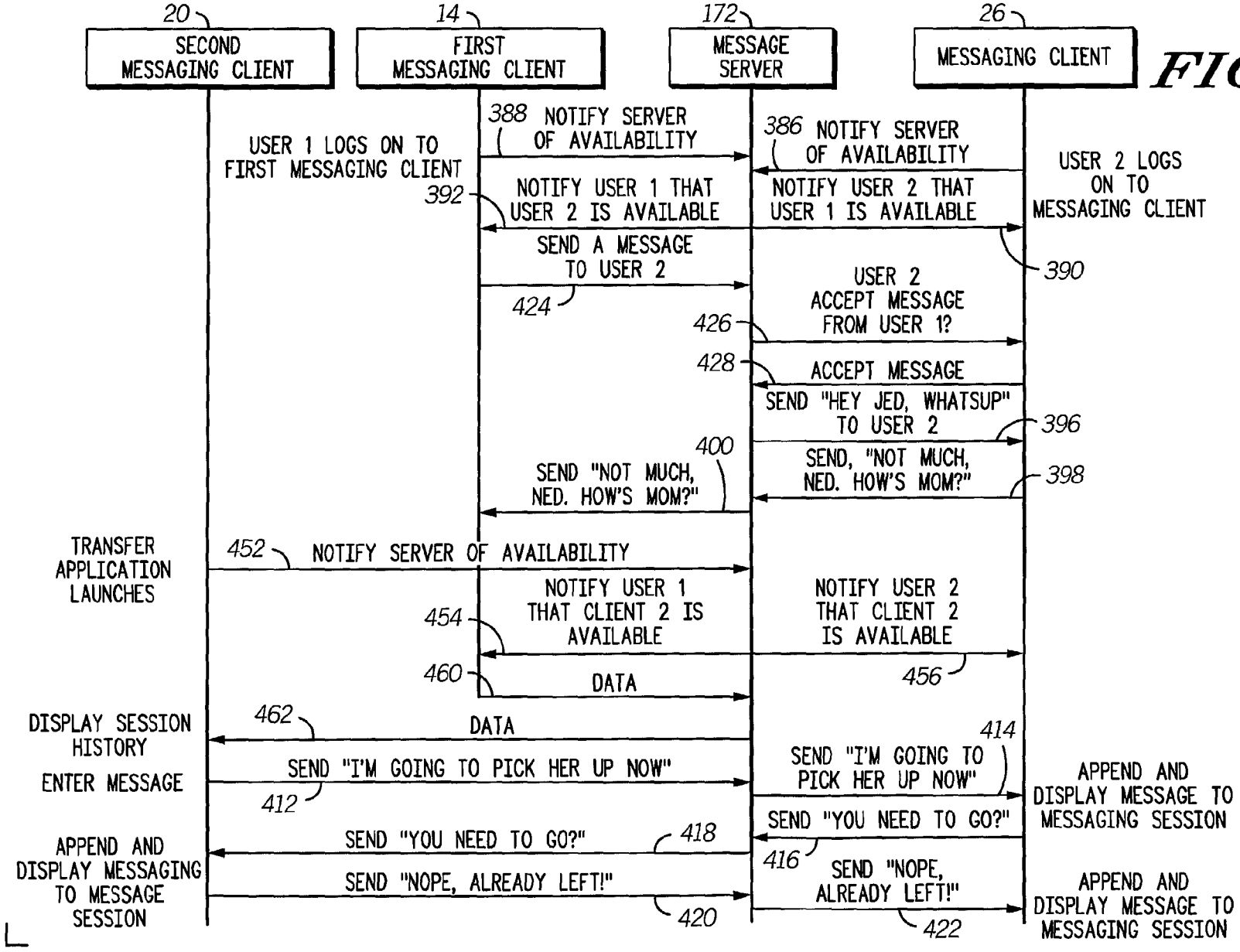


FIG. 24

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) COMBINED WITH POWER OF ATTORNEY

☒ Declaration Submitted with Initial Filing ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

Attorney Docket Number PT03730U

First Named Inventor Eric Thomas Eaton

Application Number _____

Filing Date _____

☒ Regular (Utility) Application ☐ Design application

Group Art Unit _____

Examiner Name _____

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am 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:

SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

the specification of which:

☒ is attached hereto ☐ was filed on: _____

as U.S. 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 patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed::

Prior Foreign Application Number(s)	Country	Foreign Filing Date *(MM/DD/YYYY)*	Priority Not Claimed	Certified Copy Attached?
				☐ Yes ☐ No
				☐ Yes ☐ No

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Provisional Application Serial No.:	
Provisional Application Filing Date:	

I hereby claim the priority benefit under Title 35, United States Code, Section 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, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which is material to the patentability of this application and which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Application(s):

☒ no such application(s) filed
☐ such application(s) identified as follows:

Application No.	Filing Date *(day, month, year)*	Status *(Patented, Pending, Abandoned)*

I hereby declare that: as to any claimed subject matter of this application which is common to my earlier United States or foreign application(s), if any, which I have identified above and claimed the benefit of priority thereof, I do not believe that the same was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the first of said earlier application(s), or in public use or on sale in the United States more than one year prior to the first of said earlier application(s), and that the said common subject matter has not been patented or made the subject of an inventor's certificate before the date of the first of said earlier U.S. application(s) in any country foreign to the United States on an application, filed by me or my legal representatives or assigns more than twelve months (six months if the present application is a Design patent application) prior to the first of said earlier U.S. application(s), if any; and that, as to any claimed subject matter of this application which is not common to said earlier application(s), if any, I do not know and do not believe that the same was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the date of this application, or in public use or on sale in the United States more than one year prior to the date of this application, and that said subject matter has not been patented or made the subject of an inventor's certificate in any country foreign to the United States on an application filed by me or my legal representatives or assigns more than twelve months (six months if the present application is a Design patent application) prior to the date of this application.

I hereby appoint the attorney(s) or agent(s) associated with: Customer Number **24273** to prosecute this application and transact all business in the patent and trademark office connected therewith. . *24273*

Address all telephone calls to:

Randi L. Dulaney
Telephone: **954-723-6449**
Facsimile: **954-723-3871**

Address all correspondence to: Customer Number **24273**

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

Full name of first-named or sole inventor: ERIC THOMAS EATON

Inventor's signature: Eric Thomas Eaton Date: 11/19/01

Residence: Lake Worth (City) Florida (State or Foreign Country)

Citizenship: U.S.A. (Country)

Post Office Address: 3198 Medinah Circle (Street Address)

Lake Worth	Florida	33467
City	State or Country	Zip Code

Full name of second-named joint inventor: DAVID JEFFERY HAYES

Inventor's signature: David Jeffery Hayes Date: 11/19/01

Residence: Lake Worth (City) Florida (State or Foreign Country)

Citizenship: U.S.A. (Country)

Post Office Address: 7544 Wentworth Drive (Street Address)

Lake Worth	Florida	33467
City	State or Country	Zip Code

Full name of third-named joint inventor: VON ALAN MOCK

Inventor's signature: Von Alan Mock Date: 11/19/01

Residence: Boynton Beach (City) Florida (State or Foreign Country)

Citizenship: U.S.A. (Country)

Post Office Address: 8114 Rose Marie Circle (Street Address)

Boynton Beach (City) Florida (State or Country) 33437 (Zip Code)

Full name of fourth-named joint inventor: _____

Inventor's signature: _____ Date: _____

Residence: _____ (City) _____ (State or Foreign Country)

Citizenship: _____ (Country)

Post Office Address: _____ (Street Address)

_____ (City) _____ (State or Country) _____ (Zip Code)

Full name of fifth-named joint inventor: _____

Inventor's signature: _____ Date: _____

Residence: _____ (City) _____ (State or Foreign Country)

Citizenship: _____ (Country)

Post Office Address: _____ (Street Address)

_____ (City) _____ (State or Country) _____ (Zip Code)

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

11/30/2001 MAHMED1 00000065 500757 09995338

01 FC:101 740.00 CH
02 FC:102 672.00 CH
03 FC:103 936.00 CH

PTO-1556
(5/87)

*U.S. GPO: 2000-468-887/39595

PATENT APPLICATION FEE DETERMINATION RECORD
Effective October 1, 2001

Application or Docket Number: PT 03730 M

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	72	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	72 minus 20=	* 52
INDEPENDENT CLAIMS	11 minus 3 =	* 8
MULTIPLE DEPENDENT CLAIM PRESENT		☐

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

SMALL ENTITY TYPE ☐		OR	OTHER THAN SMALL ENTITY	
RATE	FEE		RATE	FEE
BASIC FEE	370.00	OR	BASIC FEE	740.00
X$ 9=		OR	X$18=	936
X42=		OR	X84=	672
+140=		OR	+280=	
TOTAL		OR	TOTAL	2348

CLAIMS AS AMENDED - PART II

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

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

AMENDMENT C

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
***If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

CLAIMS ONLY

SERIAL NO.

FILING DATE 11-29-01

APPLICANT(S)

CLAIMS

	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
1	1					
2				1		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	1					
20	1					
21	1					
22						
23						
24						
25						
26						
27	1					
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41	1					
42						
43						
44						
45						
46						
47						
48						
49						
50						
TOTAL IND.						
TOTAL DEP.						
TOTAL CLAIMS						

	*		*		*	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
51	1					
52	1					
53						
54						
55	1					
56						
57						
58						
59						
60						
61						
62						
63						
64	1					
65						
66						
67						
68						
69						
70						
71	1					
72		1				
73						
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87						
88						
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92						
93						
94						
95						
96						
97						
98						
99						
100						
TOTAL IND.	11					
TOTAL DEP.	61					
TOTAL CLAIMS	72					

* *MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS*

FORM PTO-2022 (1-98)

U.S.DEPARTMENT OF COMMERCE
Patent and Trademark Office

*U.S. GPO: 1998-443-593/69152

#9 2-13-02 V. Jones

PT03730U

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DATE:

DOCKET NO.: PT03730U

APPLICANT: EATON, ERIC THOMAS ET AL.

ART UNIT:

SERIAL NO.:

EXAMINER:

FILING DATE::

ENTITLED: SYSTEM FOR PROVIDING CONTINUITY BETWEEN MESSAGING CLIENTS AND METHOD THEREFOR

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. §§ 1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

I. COPIES

a. ☒ A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.

b. ☐ Any patents, publications or other information which are listed on Form PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number U.S. Filing Date

II. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

a. ☒ Except as may be indicated below in (b) of this section, all of the patents, publications or other information are in the English language (concise explanation not required).

b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

c. ☐ The following additional information is provided for the Examiner's consideration:

III. ☐ CROSS REFERENCE TO RELATED APPLICATION(S)

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

U.S. Serial No. U.S. Filing Date Art Unit

FEES

IV. ☒ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)

a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.

b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.

c. ☒ before the mailing date of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required.

d. ☐ In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) provided below, or if no statement has been made, charge deposit account 50-0757 the fee set forth in 37 C.F.R. § 1.17(p).

V. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)
before the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)), or a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)).

a. ☐ No statement; therefore, charge deposit account 50-0757 the fee set forth in 37 C.F.R. § 1.17(p).

b. ☐ See the statement below. No fee is required.

VI. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):
on or before payment of the issue fee and is accompanied by the following:

1) a statement under 37 C.F.R. § 1.97(e) as provided below;

2) Applicant(s) hereby a petition for consideration of this information disclosure statement; and

3) charge deposit account 50-0757 the petition fee set forth in § 1.17(i).

VII. Statement under 37 C.F.R. §1.97(e) (check only one box, if applicable)

The undersigned hereby states that:

a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office is a counterpart foreign application not more than three months prior to the filing of IDS; or

b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and to knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement, or

c. ☐ some of the items of information contained in the IDS were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information

contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VIII. PAYMENT OF FEES (check one box)

☐ A check in the amount of $_____ is enclosed for the above-identified fee(s).

☐ Please charge Deposit Account No. **50-0757** in the amount of $180.00 for the above-indicated fee(s).

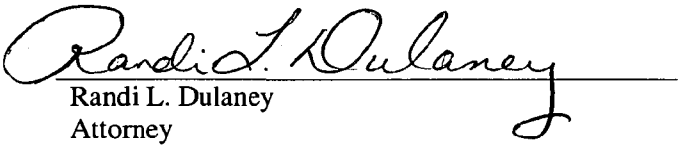
☒ If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account **50-0757**.

☐ Two Copies of this paper are attached for Deposit Account charges and debits.

It is Applicants' opinion that the claims presently on file patently distinguish the present invention from each of these references. The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. **50-0757.**

Respectfully submitted,



Randi L. Dulaney
Attorney
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Facsimile: 954-723-3871

Motorola, Inc.
Customer No. 24273

Enclosures:
☒ PTO/SB/08
☒ References
☐ Foreign Search Report
☐ Other:

e type a plus sign (+) inside this box.

Substitute for form 1449A/PTO	*Complete if Known*	
INFORMATION DISCLOSURE **STATEMENT BY APPLICANT**	Application Number	
	Filing Date	
	First Named Inventor	Eric Thomas Eaton
(use as many sheets as necessary)	**Group Art Unit**	
	Examiner Name	
Sheet [ ] of [ ]	**Attorney Docket No.**	PT03730U

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. [1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,811,377				
		5,535,436				
		6,038,296				
		6,041,229				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. [1]	Foreign Patent Document Office	Number [4]	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation[6]

Examiner Signature		Date Considered	

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

[1] citation designation number. [2]See Kinds of U.S. Patent Documents. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For [4]se patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the [5]riate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English Language Translation is [6]d.