

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2008 (02.10.2008)

PCT

(10) International Publication Number
WO 2008/118696 A1

- (51) **International Patent Classification:**
H04M3/53 (2006.01)
 - (21) **International Application Number:**
PCT/US2008/057397
 - (22) **International Filing Date:** 19 March 2008 (19.03.2008)
 - (25) **Filing Language:** English
 - (26) **Publication Language:** English
 - (30) **Priority Data:**
11/726,899 23 March 2007 (23.03.2007) US
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 - (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 - (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(54) **Title:** ATTACHMENT OF RICH CONTENT TO A UNIFIED MESSAGE LEFT AS A VOICEMAIL

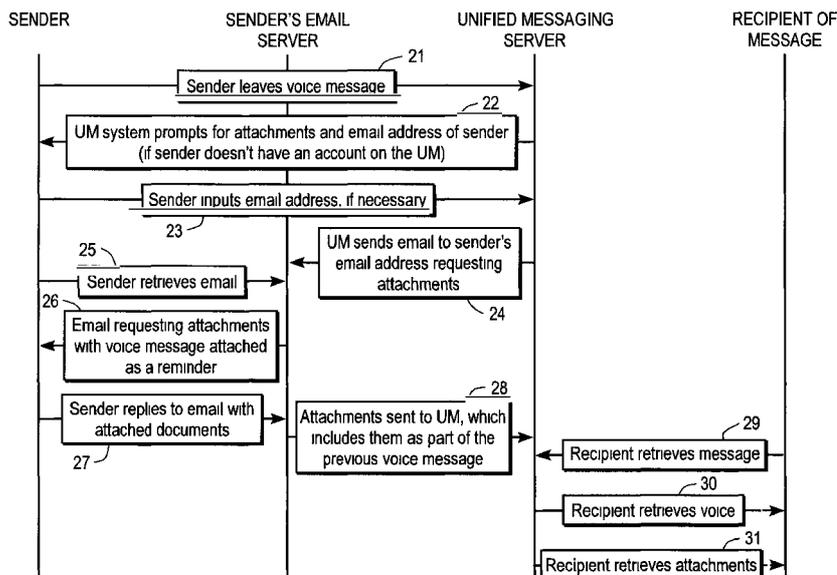


FIG. 2

(57) **Abstract:** A method in one embodiment includes storing a voicemail message in a mailbox of a recipient, the voicemail message being left by a sender (21), and then electronically receiving one or more attachments from the sender (27). The one or more attachments are stored as content associated with the voicemail message (28). Upon accessing the mailbox (29), the voicemail message and the one or more attachments are provided to the recipient (30, 31). It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. 37 CFR 1.72 (b).

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ATTACHMENT OF RICH CONTENT TO A UNIFIED MESSAGE LEFT AS A VOICEMAIL

FIELD OF THE INVENTION

[0001] The present disclosure relates generally to the field of electronic messaging, including voice messaging, over telephony networks.

BACKGROUND OF THE INVENTION

[0002] Voice messaging systems that enable users to send and retrieve voice mail messages are known in the communication arts. In a typical prior art voice messaging system a telephone is connected to a private branch exchange (PBX) that may utilize a notification mechanism, such as a message waiting indicator light, to notify a message recipient that a new message is waiting for them. Many wireless telephone communication systems also provide a Short Message Services (SMS) feature that allows users to send and/or receive short text messages. Today, many modern communication systems provide messaging services via packet-based networks, i.e., those that operate in accordance with the Internet Protocol (IP). A unified messaging (UM) system handles voice, facsimile, regular text messages, and computer-readable documents as objects in a single mailbox that a user can access either with a regular email client, or by telephone. A UM system typically connects to a PBX to provide automated attendant, audiotext, and voice mail services to subscribers or users. For instance, a personal computer (PC) user with multimedia capabilities typically can open and playback voice messages, either as speech or text. Unified messaging is therefore particularly convenient for mobile business users because it allows them to reach colleagues and customers through a PC or telephone device, whichever happens to be available.

[0003] There are times when a caller connected to a messaging system via a voice-only channel leaves a voicemail, but also would like to attach media content

such as electronic mail (email), Web pages, financial data, documents, and/or video attachments to the voicemail message. But due to the limitations of existing UM and telephony systems users are unable to attach additional rich media content (e.g., documents, media clips, Uniform Resource Locators (URLs), etc.) to a unified message that is left as a voicemail.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] The present disclosure will be understood more fully from the detailed description that follows and from the accompanying drawings, which however, should not be taken to limit the invention to the specific embodiments shown, but are for explanation and understanding only.

[0005] **Figure 1** example communications network with messaging capabilities.

[0006] **Figure 2** illustrates an example method of operation of the communications network shown in Figure 1.

[0007] **Figure 3** illustrates another example method of operation of the communications network shown in Figure 1.

[0008] **Figure 4** illustrates an example network node or device.

DETAILED DESCRIPTION

[0009] In the following description specific details are set forth, such as device types, system configurations, protocols, methods, etc., in order to provide a thorough understanding of the disclosure herein. However, persons having ordinary skill in the relevant arts will appreciate that these specific details may not be needed to practice the embodiments described.

[0010] It should be understood that in the context of the present application the term "email" (as a noun or verb) is broadly understood to apply both to Internet email systems, e.g., based on the Simple Mail Transfer Protocol (SMTP), and to intranet systems that allow users within an organization or enterprise to communicate with each other via electronic messages. An "email client", also called a mail user agent (MUA), is a computer program or application that is used for composing, sending, storing, and receiving of electronic messages over a communication network or system. A "voicemail" is recorded speech message stored in a computerized system for answering and routing telephone calls, for recording, saving, and relaying messages, and sometimes for paging a user.

[0011] An "voicemail system", as that term is used in the present disclosure, may refer to a single computer system or network, or more expansive systems that include gateway devices connected to other computer systems, thus enabling users to send / retrieve recorded speech messages anywhere in the world. An endpoint is any device, component, element, or object capable of sending or receiving an email message over a network. An endpoint may comprise a personal computer (PCs), workstation, personal digital assistant (PDA), laptop or notebook computer, or other messaging equipment. A Unified Messaging (or UM) system is a computerized system that integrates different streams of messages (e-mail, fax, voice, video, etc.) into a single "in-box", accessible from a variety of different endpoint devices.

[0012] According to one embodiment of the present invention, a Unified Messaging (UM) system is provided that allows a user to attach additional rich media content to a unified message left as a voicemail. A first user (i.e., a "sender") may call into a UM system on a voice-only channel, deposit a voicemail message, and later attach a Web page, for example, to the voicemail message. An Interactive Voice Response (IVR) system may be utilized to query the sender whether he wishes to attach additional, non-voice content to the voicemail message. If the sender responds affirmatively, an email message may be sent to the sender by the UM system. The email message may contain the deposited voicemail message as an attachment (so that the sender remembers what was said) and a text request to attach additional content as a reply to the email. The UM system of the various embodiments described herein recognizes emails with attached content and adds the content to the deposited voicemail. The attached content may then be accessed by a second user (i.e., the "receiver") along with the voicemail message in the UM system's Graphical User Interface (GUI).

[0013] When a receiver retrieves a voicemail message with attached content, the UM system handles this message just like any other rich-media UM system message. That is, the UM system handles the voicemail and attached content as objects in a single mailbox that the receiver can access either with a regular email device (such as a personal computer, (PC), a telephone device, or other suitable endpoint device. In the event that the receiver retrieves a voicemail message before the reply with the attached content is received via email, the UM system may warn the receiver that additional content has yet to be attached and send notification to the receiver that content was subsequently attached. In this manner, the receiver is able to view the attachment once it arrives.

[0014] Referring to Figure 1, an example communications network 10 is shown with messaging capabilities provided by a UM system or module 14 (e.g., an

application or code running on a server) located on IP network 13. Individual users may send / retrieve messages to / from UM system 14 (and take responsive actions thereto) utilizing any number of different endpoint devices and communication paths. For example, users 11 and 18 calling into UM system 14 from either an office telephone 16 with a text message screen or PC 15 or 19 may connect with UM system 14 (e.g., to retrieve messages and initiate responsive actions) via IP network 13. Users 11 and 18 may also connect with UM system 14 using other types of endpoint devices that provide two-way communications with UM system 14 over one or more network connections.

[0015] UM system 14 may incorporate or be associated with a text-to-speech (TTS) converter for converting a text message to audible speech when a user connects with UM system 14 via a voice-only device. Similarly, UM system 14 may incorporate or be associated with a speech-to-text (STT) converter for converting a voice message to text for a user connected via a display-only device. Conversions from different media formats or types (e.g., speech-to-text or text-to-speech) may also be based on user preferences rather than the user interface capabilities of the dialing user's device.

[0016] Figure 2 illustrates an example method of operation of the communications network shown in Figure 1 in which a user retrieves a voicemail message with attached content using a telephone device. The process begins with the caller/sender calling into the UM system (server) on a voice-only channel. The UM system detects the voice-only call and allows the sender to deposit a voicemail message (block 21). At the end of the voicemail message, the voicemail IVR component of the UM system asks the sender whether he has any additional, non-voice content he wishes to attach to the message. If the sender says "yes" and does not have an account with the UM system, the UM system prompts for the email address of the sender, again using the IVR (block 22). For example, the IVR may

state, "Please state or spell your email address after the beep." After the beep the sender may leave his email address on the voice-only channel, which may be collected by the ASR component of the UM system (block 23). In another embodiment, the sender may use a keypad or other input device to send a DTMF representation of the email text string.

[0017] Alternatively, if the sender wishes to attach additional, non-voice content to the voicemail message and the sender has an account with the UM system, it is unnecessary to obtain the sender's email address because it is already stored in a directory of the UM system. In this scenario, the UM system may look up the email address of the sender simply using caller identification information. If the sender does not wish to attach additional content to the voicemail message, (e.g., if he responds negatively when the IVR component of the UM system queries the sender if he would like the attach any additional, non-voice content to the voicemail message) the UM system simply notifies the recipient of the voicemail message and closes the call

[0018] In the case where the caller/sender wants to attach a media file or other content to his voicemail, the UM system sends an email message to the sender's email address requesting attachments to the voicemail message. Note that this occurs after the sender has already deposited his voicemail message in the UM system and ended his call (block 24). In the example shown, the email message from the UM server to the sender's email box contains the deposited voicemail message as an attachment (to remind the sender of what he said in the voicemail message) and a text request to attach additional content as a reply to the email message. For instance, the email may state "In the voicemail message sent at 8:00 a.m. on March 3 to phone number 408-555-1 111, you indicated that you wanted to attach documents to this voicemail message. Please send a reply email with these documents attached." When the sender accesses his email later on (block 25), he is able to retrieve the email message requesting that he attach documents to the voicemail message (block

26). This email request from the UM system is simply waiting in his inbox along with his other email messages.

[0019] The process continues with the sender replying to the email message with the relevant attached documents (block 27). Here, the UM system is operable to correlate the sender's response with the UM system's initial email message so that the attachments are added to the proper unified message. In one embodiment, the UM system may include a unique ID in the subject line of the email message. When the sender replies, the subject line is preserved, allowing the UM system to complete the correlation. The UM system then adds the attachments to the previous voicemail message (block 28). The attached content is now available to be displayed with the voicemail in the UM system's GUI. The recipient may retrieve the message by accessing his mailbox within the UM system any time thereafter (block 29). By accessing the UM system the recipient may now retrieve both the voicemail message (block 30) and the attachment(s) (block 31).

[0020] As stated previously, the UM system treats reply emails with attached content as regular unified messages. That is, the UM system delivers one or more rich media files to the recipient in various forms, depending on what type of device the recipient is calling in on. The recipient's different messaging systems (e.g., voice, fax, email, text, video, etc.) are consolidated in a single repository that the recipient may access using the UM system's GUI. If the recipient is accessing the voicemail message and the attached content through a personal computer connected to the Internet, for example, a STT converter may convert the speech in the voicemail message to text so that the recipient may simply read the message on his computer screen along with the attached documents. Alternatively, if the recipient is accessing the message by a dial-up call from a telephone connected to the Internet, then a TTS converter may convert the text of the attached documents into speech, so that the

recipient may listen to the voicemail message and the attached documents using the handset device of the telephone.

[0021] Figure 3 illustrates another example method of operation of the communications network shown in Figure 1. Each of the steps 33-41 are similar to those described in Figure 2. The difference is that in the example of Figure 3, the recipient retrieves the voicemail message (block 43) before the UM system is able to receive the reply email from the sender with the attached documents (block 39), and also before the attached documents are included in the recipient's mailbox in association with the voicemail message (block 41). In other words, at the time that the recipient accesses his UM system mailbox, the only contents are the voicemail message previously left by the sender, without any attachments.

[0022] In block 43, the recipient requests the voicemail component of the message from the UM system, and the UM system returns the voicemail portion of the message (block 44). The UM system may inform the recipient that attachments to the voicemail message are expected but have not yet arrived (block 45). For example, if the recipient is accessing the voicemail message using the web browser of a personal computer, an email message in the recipient's inbox may state, "Please expect attached documents to the voicemail message you received on March 7 at 8:30 a.m. from phone number 408-555-1 111 to arrive shortly."

[0023] The next time the recipient accesses his UM system's GUI (e.g., his web browser), the UM system may notify him that content was subsequently attached to the voicemail message (in the case, the edited documents). In one embodiment, the UM system sends the recipient an email message indicating that the attachments to the sender's voicemail are now available. For example, the email message sent to the recipient by the UM system may state, "The attached documents to the voicemail you received on March 7 at 8:30 a.m. from phone number 408-555-1 111 are now available." The recipient may also be notified that the attached documents have

arrived via some other mechanism, such as a page or cell phone call, depending on the type of endpoint device the recipient is using to access his messages on the UM system. Regardless of how the recipient is notified, once the attachments have been received by the UM system, and then the recipient again retrieves the voicemail component of the message (block 46), the attached documents (block 47) the attachments are now waiting in his inbox and are available for downloading, viewing, playing, etc.

[0024] Figure 4 is a generalized block diagram showing an example network device or node 56, such as may comprise any of the systems, devices, or nodes (e.g., a PC or server) shown or described above. Node 56 includes a processor subsystem 51 coupled with a memory unit 52, one or more hardware / software modules 50, and an input/output (I/O) interface 54 via a system bus 53. Modules 50 may include software, firmware, or logic embedded in hardware for implementing any of the functions described herein, e.g., those functions associated including an attached document with a voicemail message, etc.

[0025] It is appreciated that any unified messaging and/or email system utilized by or in conjunction with node 56 may comprise separate hardware devices coupled to the system bus 53, or, alternatively, implemented as software programs or modules 50 that run on one or more processors of subsystem 51. In other words, the composing, sending, storing, and receiving of electronic messages, as well as other associated functions may be implemented as separate hardware devices, memory locations (storing executable code), firmware devices, software modules, or other machine-readable devices. (In the context of the present application, therefore, the term "module" is to be understood as being synonymous with both hardware devices and computer-executable software code, programs or routines.)

[0026] It should be further understood that elements of the present invention may also be provided as a computer program product which may include a machine-

readable medium having stored thereon instructions which may be used to program a computer (e.g., a processor or other electronic device) to perform a sequence of operations. Alternatively, the operations may be performed by a combination of hardware and software. The machine-readable medium may include, but is not limited to, floppy diskettes, optical disks, CD-ROMs, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, magnet or optical cards, propagation media or other type of media/machine-readable medium suitable for storing electronic instructions. For example, elements of the present invention may be downloaded as a computer program product, wherein the program may be transferred from a remote computer or telephonic device to a requesting process by way of data signals embodied in a carrier wave or other propagation medium via a communication link (e.g., a modem or network connection).

[0027] Additionally, although the present invention has been described in conjunction with specific embodiments, numerous modifications and alterations are well within the scope of the present invention. For instance, although functions and methods of various embodiments have been described as being embodied on a UM system coupled to a server via IP network, it is appreciated that these same methods and functions may be embodied on an endpoint device of a user, another server or client, a messaging application, or a third party service application program accessible via a web-based browser. Accordingly, the specification and drawings are to be regarded in an illustrative rather than a restrictive sense.

CLAIMS

We claim:

1. A method comprising:
storing a voicemail message in a mailbox of a recipient, the voicemail message being left by a sender;
electronically receiving one or more attachments from the sender,
storing the one or more attachments as content associated with the voicemail message; and
upon accessing the mailbox, providing the voicemail message and the one or more attachments to the recipient.
2. The method of claim 1 wherein the mailbox comprises a unified messaging system.
3. The method of claim 1 further comprising prompting the sender for attachments via an email message after storing the voicemail message.
4. The method of claim 1 wherein the electronic receiving of the one or more attachments from the sender comprises receiving a reply email message with the one or more attachments.
5. The method of claim 1 further comprising asking, via an interactive voice response (IVR) system, whether the sender wants to attach any files to the voicemail message.

6. The method of claim 5 further comprising prompting the sender for an email address of the sender.

7. The method of claim 1 wherein the one or more attachments comprise a Uniform Resource Locator.

8. The method of claim 1 wherein the one or more attachments comprise a text file.

9. The method of claim 1 wherein the one or more attachments comprise a computer readable file.

10. The method of claim 1 wherein the one or more attachments comprise a video media file.

11. The method of claim 6 further comprising sending an email message to the email address of the sender, the email message including a request for attachments and the voicemail message.

12. A method comprising:

storing a voicemail message in a unified messaging (UM) mailbox of a recipient, the voicemail message being left by a sender;

sending an email message to the sender that prompts the sender for at least one attachment to the voicemail message;

receiving a reply to the email message from the sender that contains one or more computer-readable attachments;

storing the one or more computer-readable attachments as content associated with the voicemail message;

retrieving the voicemail message from the UM mailbox for the recipient; and
retrieving the one or more computer-readable attachments for the recipient.

13. The method of claim 12 further comprising, after the retrieving of the voicemail message, informing the recipient that the one or more computer-readable attachments are expected, but have yet to arrive from the sender.

14. The method of claim 12 wherein the retrieving of the voicemail message occurs in response to the recipient accessing the UM mailbox at a first point in time, and the retrieving of the one or more computer-readable attachments occurs in response to the recipient accessing the UM mailbox at a second point in time later than the first point in time.

15. The method of claim 12 wherein the email message includes the voicemail message.

16. The method of claim 12 wherein the one or more computer-readable attachments comprise a Uniform Resource Locator.

17. The method of claim 12 wherein the one or more computer-readable attachments comprise a text file.

18. The method of claim 12 wherein the one or more computer-readable attachments comprise a video media file.

19. Logic encoded in one or more media for execution and when executed is operable to:

- store a voicemail message in a unified messaging (UM) mailbox of a recipient, the voicemail message being left by a sender;
- send an email message that prompts the sender for at least one attachment to the voicemail message;
- receive a reply to the email message from the sender that contains one or more computer-readable attachments;
- store the one or more computer-readable attachments as content associated with the voicemail message;
- retrieve the voicemail message from the UM mailbox for the recipient; and
- retrieve the one or more computer-readable attachments for the recipient.

20. The logic of claim 19 wherein the logic, when executed, is further operable to inform, after the retrieving of the voicemail message, the recipient that the one or more computer-readable attachments are expected, but have yet to arrive from the sender.

21. The logic of claim 19 wherein the voicemail message is retrieved in response to the recipient accessing the UM mailbox at a first point in time, and the one or more computer-readable attachments are retrieved in response to the recipient accessing the UM mailbox at a second point in time later than the first point in time.

22. A system comprising:
one or more network nodes running one or more application programs that implement a unified messaging (UM) system, the one of the nodes including:

one or more processors; and

a memory comprising one or more instructions executable at the processors, the one or more processors being operable, when executing the instructions, to:

store a voicemail message in a unified messaging (UM) mailbox of a recipient, the voicemail message being left by a sender;

send an email message that prompts the sender for at least one attachment to the voicemail message;

receive a reply to the email from the sender that includes one or more computer-readable attachments;

retrieve the voicemail message from the UM mailbox for the recipient;

and

retrieve the one or more computer-readable attachments for the recipient.

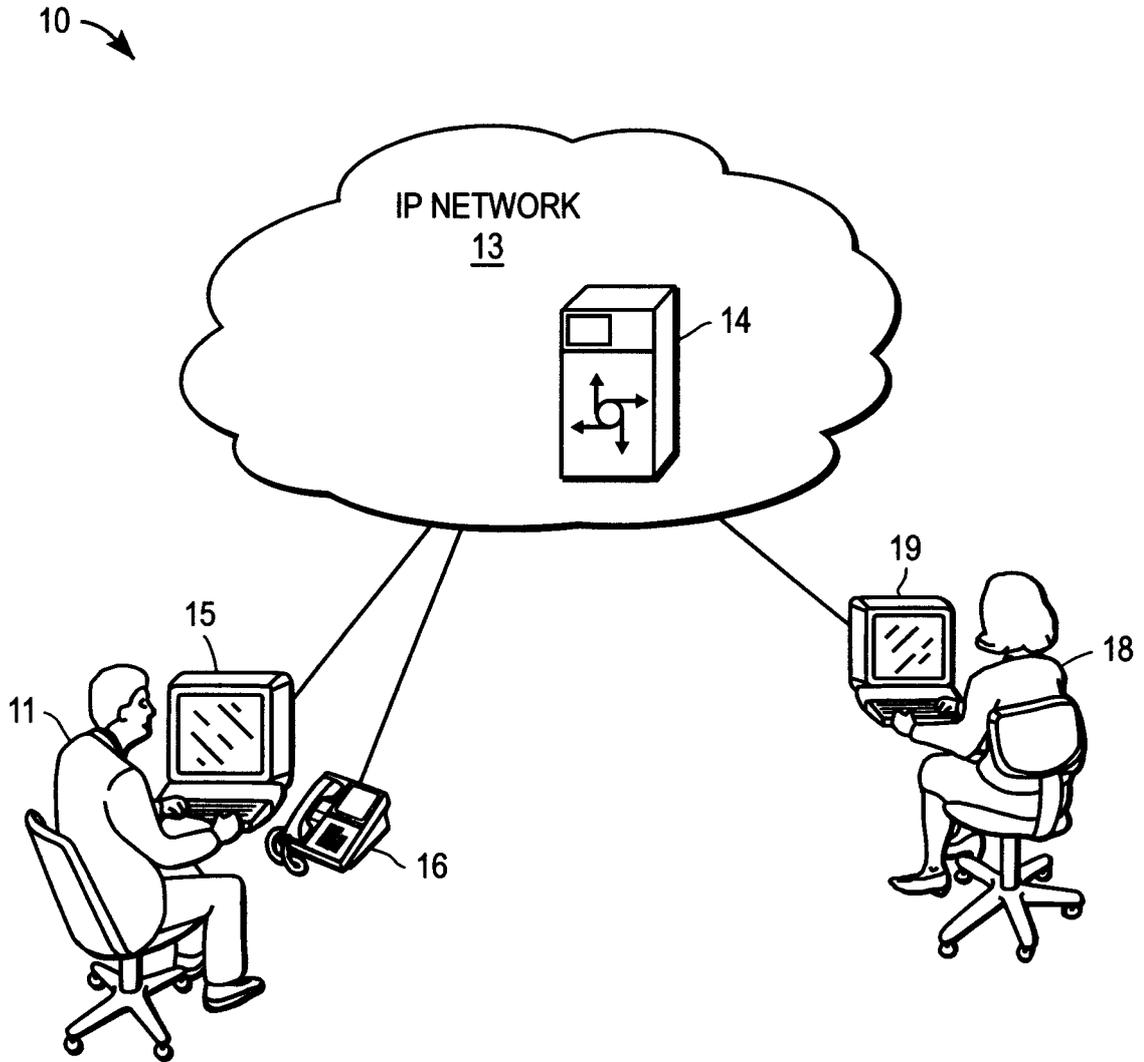


FIG. 1

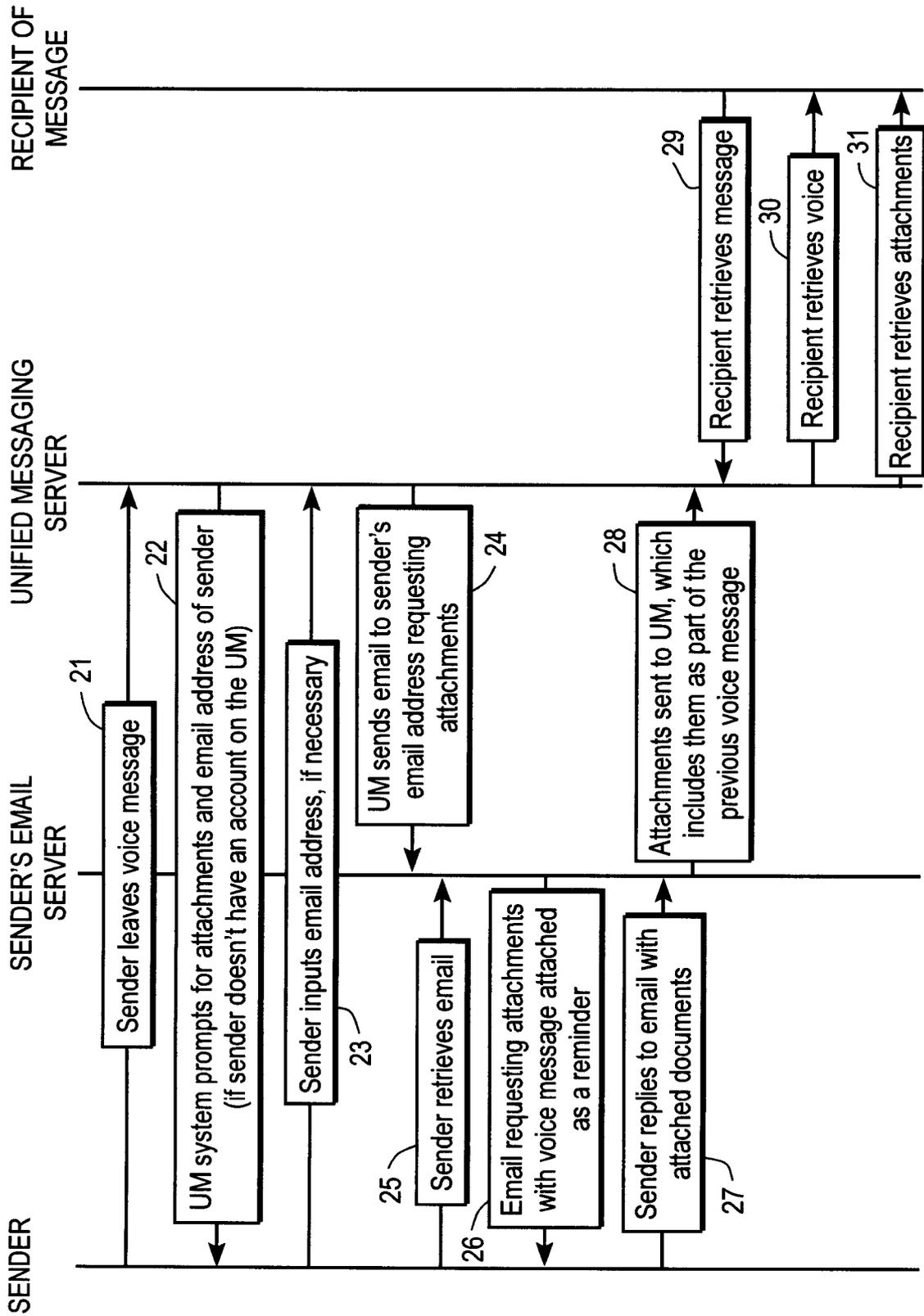


FIG. 2

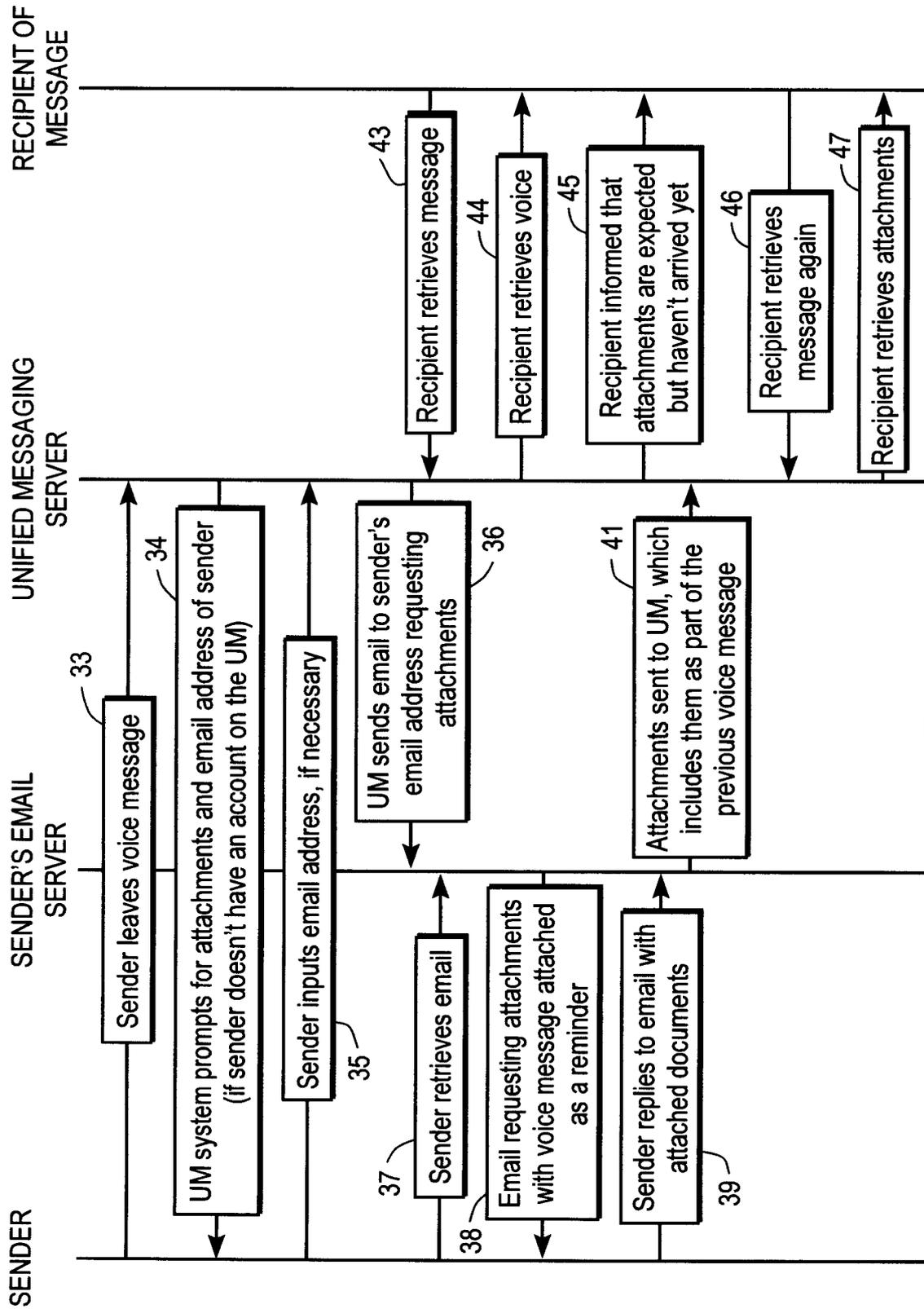


FIG. 3

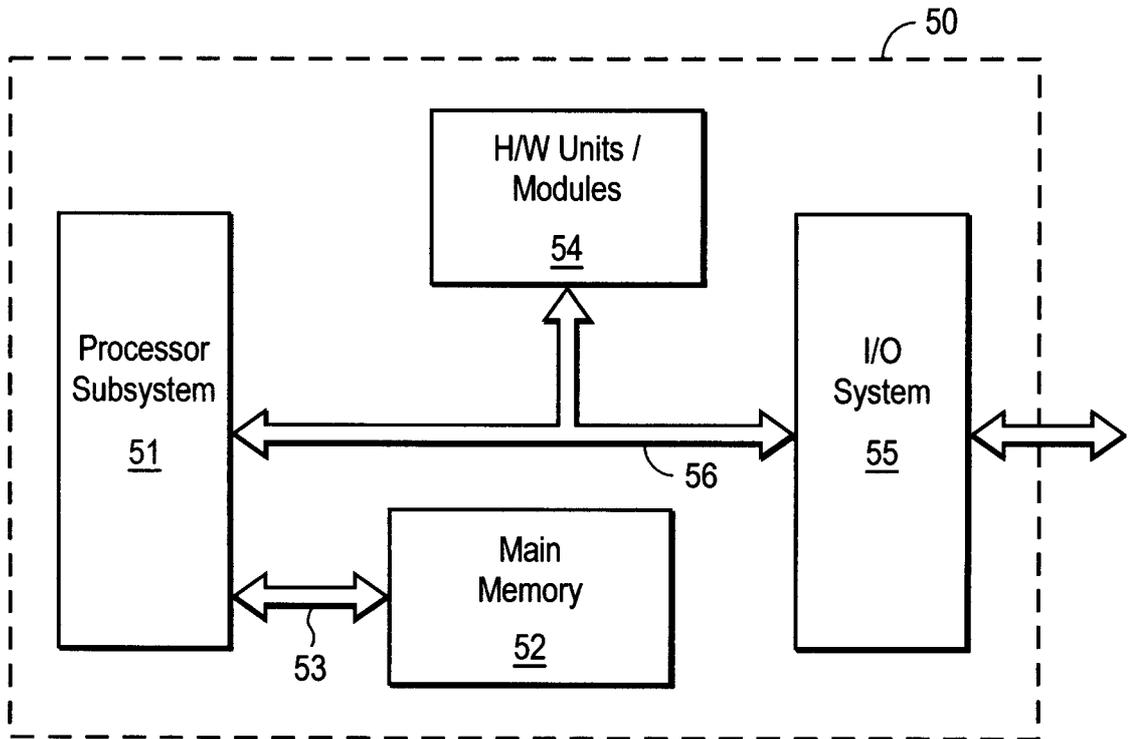


FIG. 4

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/057397

A. CLASSIFICATION OF SUBJECT MATTER INV. H04M3/53 ADD. H04L12/58				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H04L H04M				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical search terms used) EPO-Internal , WPI Data				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No		
X Y A X Y A	US 2002/124057 A1 (BESPROSVAN DIEGO [IL]) 5 September 2002 (2002-09-05) page 1, paragraph 9 - paragraph 10 page 5, paragraph 57 - page 6, paragraph 87; figures 1,8 ----- US 2004/086095 A1 (DIXIT RAJEEV K [US] ET AL) 6 May 2004 (2004-05-06) page 1, paragraph 9 - paragraph 11 page 2, paragraph 22 - paragraph 26 page 4, paragraph 106 - page 10, paragraph 154; figures 1,2,3B,7,8 ----- -/--	1,2,7-10 3,5 4,6, 11-22 1-3,5, 7-10 3,5 4,6, 11-22		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C				
<input checked="" type="checkbox"/> See patent family annex				
* Special categories of cited documents				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> ¹A" document defining the general state of the art which is not considered to be of particular relevance ¹E" earlier document but published on or after the international filing date ¹L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) ¹O" document referring to an oral disclosure, use, exhibition or other means ¹P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; border: none; vertical-align: top;"> ¹T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention ¹X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone ¹Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art ¹&" document member of the same patent family </td> </tr> </table>			¹ A" document defining the general state of the art which is not considered to be of particular relevance ¹ E" earlier document but published on or after the international filing date ¹ L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) ¹ O" document referring to an oral disclosure, use, exhibition or other means ¹ P" document published prior to the international filing date but later than the priority date claimed	¹ T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention ¹ X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone ¹ Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art ¹ &" document member of the same patent family
¹ A" document defining the general state of the art which is not considered to be of particular relevance ¹ E" earlier document but published on or after the international filing date ¹ L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) ¹ O" document referring to an oral disclosure, use, exhibition or other means ¹ P" document published prior to the international filing date but later than the priority date claimed	¹ T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention ¹ X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone ¹ Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art ¹ &" document member of the same patent family			
Date of the actual completion of the international search <p style="text-align: center;">31 July 2008</p>	Date of mailing of the international search report <p style="text-align: center;">07/08/2008</p>			
Name and mailing address of the ISA' European Patent Office P B 5818 Palentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040 Tx 31 651 epo nl Fax (+31-70) 340-3016	Authorized officer <p style="text-align: center;">Fischer, Erik</p>			

INTERNATIONAL SEARCH REPORT

International application No PCT/US2008/057397

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	<p>GREG VAUDREUIL LUCENT TECHNOLOGIES GLENN PARSONS NORTEL NETWORKS: "Voice Profile for Internet Mail - version 3 ; draft-ema-vpi mv3-00 .txt "</p> <p>IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, 1 February 1999 (1999-02-01), XP015012951 ISSN: 0000-0004</p> <p>page 4 , paragraph 1 .ABSTRACT page 5 , line 22 - line 25 page 9 , paragraph 5 . page 26 , paragraph 5.5.2 - page 27 , paragraph 5.5.3 page 42 , paragraph 13. - page 44 , paragraph 13.</p> <p align="center">-----</p>	1-22
A	<p>US 6 970 908 B1 (LARKY STEVEN [US] ET AL) 29 November 2005 (2005-11-29) column 2 , line 19 - column 4 , line 41</p> <p align="center">-----</p>	3,5,12, 19,22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/057397

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US 2002124057	A1	05-09-2002	NONE
us 2004086095	A1	06-05-2004	NONE
us 6970908	B1	29-11-2005	NONE