



(22) Date de dépôt/Filing Date: 2004/06/30

(41) Mise à la disp. pub./Open to Public Insp.: 2005/03/26

(45) Date de délivrance/Issue Date: 2011/08/09

(30) Priorité/Priority: 2003/09/26 (US10/672,633)

(51) Cl.Int./Int.Cl. *H04M 3/533* (2006.01),
H04L 12/16 (2006.01), *H04M 3/436* (2006.01)

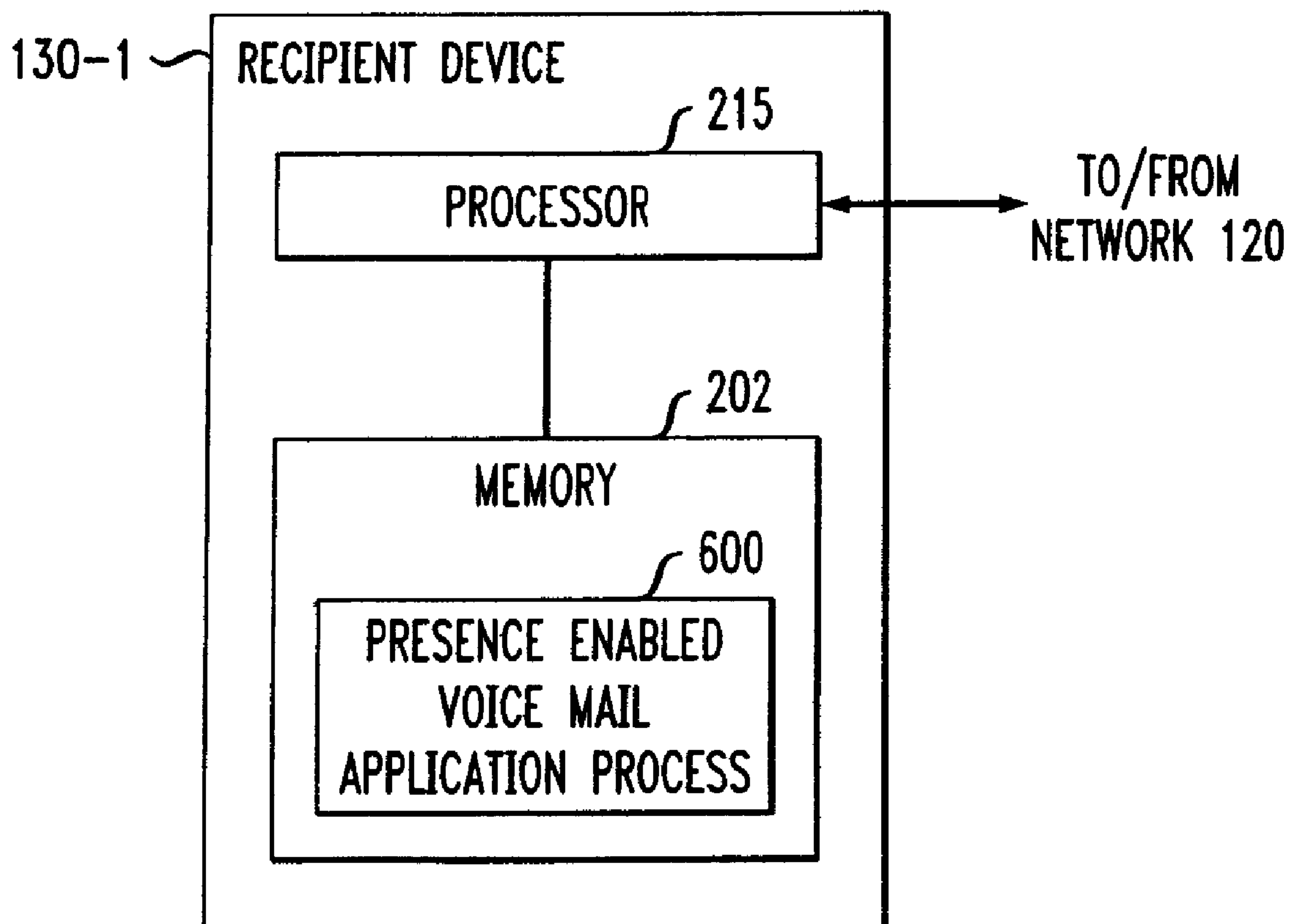
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(54) Titre : METHODE ET APPAREIL DE LIVRAISON D'UN MESSAGE VOCAL AVEC UNE INDICATION DE LA
PRESENCE DE L'EXPEDITEUR

(54) Title: METHOD AND APPARATUS FOR DELIVERING A VOICE MAIL MESSAGE WITH AN INDICATION OF THE
PRESENCE OF THE SENDER



(57) Abrégé/Abstract:

A method and apparatus are disclosed for delivering voice mail messages to one or more intended recipients with an indication of the presence of the sender. A message recipient can automatically respond to a voice mail message using a desired form of



(57) **Abrégé(suite)/Abstract(continued):**

communication. The presence server can provide presence information across domains so that a user in one domain can automatically obtain presence information and respond to a user in another domain. A client-side presence enabled voice mail application process (i) retrieves voice mail messages from a voice mail server of a user, (ii) queries a presence server to determine the presence of the sender of each retrieved message, and (iii) presents the retrieved voice mail message(s) to the recipient with an indication of the presence of the sender. In addition, the disclosed presence enabled voice mail application process allows the message recipient to automatically respond, for example, by an email, instant message or telephone call to a device where the sender is believed to be present.

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**METHOD AND APPARATUS FOR DELIVERING A VOICE MAIL
MESSAGE WITH AN INDICATION OF THE PRESENCE OF THE
SENDER**

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ABSTRACT

A method and apparatus are disclosed for delivering voice mail messages to one or more intended recipients with an indication of the presence of the sender. A message recipient can automatically respond to a voice mail message using a desired form of communication. The presence server can provide presence information across domains so that a user in one domain can automatically obtain presence information and respond to a user in another domain. A client-side presence enabled voice mail application process (i) retrieves voice mail messages from a voice mail server of a user, (ii) queries a presence server to determine the presence of the sender of each retrieved message, and (iii) presents the retrieved voice mail message(s) to the recipient with an indication of the presence of the sender. In addition, the disclosed presence enabled voice mail application process allows the message recipient to automatically respond, for example, by an email, instant message or telephone call to a device where the sender is believed to be present.

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**METHOD AND APPARATUS FOR DELIVERING A VOICE MAIL
MESSAGE WITH AN INDICATION OF THE PRESENCE OF THE
SENDER**

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Field of the Invention

15 The present invention relates generally to methods and systems for delivering voice mail messages over a network, and more particularly, to methods and systems that deliver voice mail messages to one or more intended recipients with an indication of the presence or availability of the sender.

20 **Background of the Invention**

 When one person calls another person, the call will often go to call coverage, such as a voice mail system or live receptionist, or result in a busy signal. In an enterprise communication system, for example, callers must often leave a voice mail message for the intended recipient. Currently available voice
25 mail applications typically allow the message recipient to automatically respond to the message sender by placing another telephone call or sending a reply voice mail message to the message sender. Such voice mail applications, however, do not provide a mechanism for determining the availability of a particular person. Thus, the message recipient lacks the necessary information to make an informed
30 decision about the best way to reach the message sender. The message recipient

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may still not reach the message sender, for example, if the message sender is not there or is unavailable.

Instant messaging systems generally provide a mechanism for determining whether a message recipient is "present." See, for example, Atkins
5 et al., "Introducing Instant Messaging and Presence Into the Workplace," Proc.
of the Conf. on Human Factors in Computing Systems, Minneapolis, Minnesota,
USA, ACM CHI 2002 (April 20, 2002), downloadable from
<http://www.informatik.uni-trier.de/~ley/db/conf/chi/chi2002.html>. The instant
messaging system provided by America Online, for example, provides both an
10 instant message function and a presence awareness function. The presence
information allows the recipient of an instant message to determine whether the
sender of the instant message is currently available (i.e., logged on to the AOL
service) to receive additional instant messages. In addition, a number of instant
messaging systems allow a user to provide a text message indicating his or her
15 current availability, such as "out to lunch," or "in a meeting." Thus, the users of
instant messaging systems can make more informed decisions about how to best
communicate with an intended recipient. Unlike instant messaging systems,
however, voice mail systems typically do not allow a message recipient to
determine whether the message sender is currently present.

20 A need therefore exists for methods and systems that deliver
voice mail messages to one or more intended recipients with an indication of the
presence of the sender. A further need exists for voice mail methods and
systems that allow a message recipient to automatically respond to a message
sender at a communication device where the message sender is believed to be
25 present.

Summary of the Invention

Generally, a method and apparatus are disclosed for delivering
voice mail messages to one or more intended recipients with an indication of the
30 presence of the sender. The provided presence information allows the recipient

to better determine the best way to respond to the message. The presence information may indicate, for example, if the message sender can currently be reached by email, instant message, a telephone call or a further voice mail message. The present invention increases productivity by enabling a better selection of the best way to respond to a voice mail message. If the message sender is present for a real time communication, for example, the message recipient can choose a real time or near real time mode of communicating, such as a telephone call or instant message. Otherwise, the message recipient can select a non-real time mode of communicating, such as a reply email message, voice mail message or a page.

Certain exemplary embodiments can provide a method comprising: transmitting a request by a first telecommunications device to a first server, wherein the request is to retrieve a voice mail message recorded by a sender; transmitting a query by the first telecommunications device to a second server, wherein the query is to retrieve presence information of the sender; receiving by the first telecommunications device: (i) the voice mail message from the first server, and (ii) the presence information from the second server; and displaying, by the first telecommunications device, the voice mail message with the presence information, wherein the presence information comprises an identification of at least one of a second telecommunications device and a third telecommunications device in which the sender is currently available to establish a communications session.

Certain exemplary embodiments can provide a method comprising: transmitting a request by a first telecommunications device to a first server, wherein the request is to retrieve a voice mail message recorded by a sender; transmitting a query by the first telecommunications device to a second server, wherein the query is to retrieve presence information of the sender; receiving by the first telecommunications device: (i) the voice mail message from the first server, and (ii) the presence information from the second server; and providing a mechanism for a recipient at the first telecommunications device to transmit a response to at least one of: (i) a second telecommunications device, and (ii) a third telecommunication device in which the sender is currently available to establish a communications session, wherein the mechanism automatically configures the response.

Certain exemplary embodiments can provide an apparatus comprising: a memory; and at least one processor, coupled to the memory, operative to: transmit a request to a first server, wherein the request is to retrieve a voice mail message recorded by a sender; transmit a query to a second server,
5 wherein the query is to retrieve presence information of the sender; receive: (i) the voice mail message from the first server, and (ii) the presence information from the second server; and display the voice mail message with the presence information, wherein the presence information comprises an identification of at least one of a second telecommunications device and a third telecommunications
10 device in which the sender is currently available to establish a communications session.

In other embodiments, a message recipient can automatically respond to a voice mail message using a desired form of communication, such as a telephone call to a telephone where the sender is
15 believed to be present. Furthermore, the presence server can provide presence information across domains so that a user in one domain (such as the customers of one Internet Service Provider) can automatically respond in real-time or non-
20 real time to a user in another domain (such as the customers of another Internet Service Provider). In one implementation, a client-side presence enabled voice mail application process (i) retrieves voice messages from a voice mail server of
25 a user, (ii) queries a presence server to determine the presence of the sender of each retrieved message, and (iii) presents the retrieved voice message(s) to the recipient, for example, in an "in-box," with an indication of the presence of the sender. In addition, the disclosed presence enabled voice mail application
30 process allows the message recipient to automatically respond, for example, by an email, instant message, telephone call or voice mail to a device where the sender is believed to be present.

35 A more complete understanding of the present invention, as well as further features and advantages of the present invention, will be obtained by reference to the following detailed description and drawings.

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Brief Description of the Drawings

FIG. 1 illustrates a network environment in which the present invention can operate;

FIG. 2 is a schematic block diagram of an exemplary recipient device of FIG. 1 incorporating features of the present invention;

FIG. 3 is a schematic block diagram of an exemplary presence server of FIG. 1 incorporating features of the present invention;

FIG. 4 is a sample table from an exemplary presence database of FIG. 1;

FIG. 5 illustrates an exemplary "login" process that can be used by users to register with the presence server of FIG. 3;

FIG. 6 is a flow chart describing an exemplary implementation of the client-side presence enabled voice mail application process of FIG. 2; and

FIG. 7 is a user interface incorporating features of the present invention.

Detailed Description

FIG. 1 illustrates the network environment in which the present invention can operate. As shown in FIG. 1, a sender employing a sender device 110 leaves a voice mail message over a network 120 for one or more intended recipients, each employing a corresponding recipient device 130-1 through 130-N,

discussed below in conjunction with FIG. 2. The voice mail message is typically delivered to a "mailbox" of a voice mail server 130 associated with a corresponding recipient. The recipient must generally log into the voice mail server 130 to access the voice mail messages, in a known manner. The network(s) 120 may be any combination of wired or wireless networks, such as the Internet and the Public Switched Telephone Network (PSTN). The voice mail server 130 typically serves a community of users, such as the employees within an enterprise or the customers of a telephone Service Provider. While the present invention is described in the context of a voice mail message system, it

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will be understood by those of ordinary skill in the art that the present invention encompasses other types of messages and is not limited to voice mail messages.

According to one aspect of the invention, a voice mail message is delivered to each recipient with an indication of the presence or availability of the sender. As used herein, the term "presence" shall mean the representation of a state characterizing the existence of an active device through which a user can communicate or through which presence can be detected. The state is specific to a particular communication service, such as email, voice mail or instant messaging, or presence detection service, such as audio-visual detection, GPS devices or heat sensors. Users may have multiple active communication devices.

The provided presence information allows the recipient to better determine the best mode of communication to use when responding to the communication. In this manner, productivity is enhanced by enabling a better selection of the best way to respond to the voice mail message communication. If the message sender is present for a real time communication, for example, the message recipient can choose a real time or near real time mode of communicating, such as a telephone call or instant message. Otherwise, the message recipient can select a non-real time mode of communicating, such as a reply email message, voice mail message or a page. This informed choice leads to a more efficient, productive and cost effective communication. According to another aspect of the invention, a message recipient can automatically respond to a voice mail message using a desired form of communication, such as a telephone call to a telephone where the sender is believed to be present.

As previously indicated, a voice mail message generally comprises audio message content and one or more indicated recipients. The voice mail message is received by the voice mail server 130 over the network 120 and is routed to the voice mail box corresponding to each indicated recipient. In one exemplary implementation, a client-side presence enabled voice mail application process 600, as discussed further below in conjunction with FIG. 6, associated with each recipient (i) retrieves voice mail messages

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from the voice mail server 130, (ii) queries a presence server 300, discussed below in conjunction with FIG. 3, to determine the presence of the sender of the retrieved voice mail message, and (iii) presents the retrieved voice mail message to the recipient, for example, in an "in-box," with an indication of the presence
5 of the sender.

In addition, the presence enabled voice mail application process 600 allows the message recipient to automatically respond, for example, by an email, instant message, telephone call or further voice mail message to a device where the sender is believed to be present. In the context of a voice mail
10 system, presence information is generally most useful if presented to the voice mail message recipient when the recipient is listening to the message. However, other variations are possible and within the scope of the present invention. Generally, the presence server 300 records presence information for each user in a given community, such as the availability of each user to receive email
15 messages, instant messages, telephone calls or further voice mail messages to one or more indicated addresses.

It is noted that the community served by the voice mail server 130 is typically not the same community as that served by the presence server 300. In fact, it is an object of the present invention that the presence server 300 is
20 based on an open standard that provides presence information beyond any single community served by a single voice mail server 130. Thus, the presence server 300 can provide presence information across domains so that a user in one domain (such as the customers of one Internet Service Provider) can automatically respond in real-time or non-real time to a user in another domain
25 (such as the customers of another Internet Service Provider). In this manner, the presence server 300 is not tied to any given voice mail system, and thus the presence server 300 can support any voice mail client. In an alternate server-side implementation, the voice mail server 130 can automatically provide the voice mail message with an indication of the presence of the sender.

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FIG. 2 is a schematic block diagram of an exemplary recipient device 200 incorporating features of the present invention. The recipient device 200 may be any communication device, such as a telephone, personal computer or personal digital assistant. As shown in FIG. 2, the exemplary recipient device 200 includes a processor 215 and a memory 202, in addition to other conventional elements (not shown). The processor 215 operates in conjunction with the memory 202 to execute one or more software programs. Such programs may be stored in memory 202 or another storage device accessible to the recipient device 200 and executed by the processor 215 in a conventional manner. For example, as discussed below in conjunction with FIG. 6, the memory 202 may store a presence enabled voice mail application process 600 that (i) retrieves a voice mail message for the recipient associated with the device 200 from the voice mail server 130, (ii) queries a presence server 300, discussed below in conjunction with FIG. 3, to determine the presence of the sender of the retrieved voice mail message, and (iii) presents the voice mail message to the recipient with an indication of the presence of the sender. A suitable user interface that may be employed by the presence enabled voice mail application process 600 to present retrieved voice mail messages, together with an indication of the presence of the sender, is discussed below in conjunction with FIG. 7.

As previously indicated, the presence server 300 records presence information for each user in a given community. For example, the recorded presence information may include the availability of each user to receive voice mail messages, emails, instant messages or telephone calls to one or more indicated addresses or telephone numbers. The presence server 300 can track real time changes in the presence status of each user that is used by the present invention to provide better communication when responding to a voice mail message. The exemplary presence server 300 is implemented in accordance with the specifications of the emerging PAM architecture, described, for example, at www.pamforum.org. For example, the presence server 300 may be embodied in accordance with the teachings of David Boyer et al., "Presence Awareness for

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Future Telecommunication Systems", Chapter in Virtual Reality Technologies for Future Telecommunications Systems, Algirdas Pakstas and Ryoichi Komiya (Eds.), John Wiley & Sons, LTD, (2002); or Mark Handel et al., "Requirements for Presence Awareness: The RVM Model," <http://www-personal.si.umich.edu/~handel/research/rvm/documents/rvm-model.pdf> (or accessible through a keyword search on google.com).

As shown in FIG. 3, the presence server 300 includes a client connection module 320 that is responsible for managing client connections. The client connection module 320 facilitates communication between the presence server 300 and each client. In the exemplary implementation shown in FIG. 3, the client connection module 320 supports three client interfaces 310-1 through 310-3. A first client interface 310-1 provides a 'persistent' interface for presence applications. A persistent connection is maintained between the client and the server 300. A heartbeat mechanism can be utilized to make the system robust to network outages. Notifications are also sent via the first client interface 310-1. If a subscribed-to-users presence status changes (a new device is now available for communication), the user's client is sent a notification to indicate this.

A second client interface 310-2 supports non-persistent User Datagram Protocol (UDP) communications via a Session Internet Protocol (SIP) proxy that provides notifications and registration to a well-known port number via the SIP notification and register protocol. See, J. Rosenberg et al., "SIP Extensions for Presence," IETF Internet Draft, draft-rosenberg-impp-presence-00.txt (June 15, 2000). A third non-persistent client interface 310-3 supports "thin" Web clients. A thin client does not support notifications. The client queries the server 300 periodically to see if the presence status of any of the parties that the user subscribes to has changed.

In addition, the presence server 300 includes a subscription management module 325 that is responsible for managing subscriptions. A

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subscription list, often referred to as a "buddy list," is a list of the people, groups and Web pages to whose presence and availability a user has subscribed. Examples include a stock price when it hits a certain level, the availability of a document when it is ready and the nearest fax machine that is not in use. A user
5 might also subscribe to different applications that a user has access to or features of systems that change. For example, a user may want to know when someone hangs up his or her telephone (the identity subscribes to an agent's on-hook field). Subscriptions should also be permitted to an agent's presence information that might be considered to be networked appliances. For example, a homeowner
10 could subscribe to a remote electronic doorbell.

The subscription management module 325 has a number of related modules, that let a user manage groups and buddy lists. The subscription management module 325 supports the availability of specific communication capabilities and, given the right permissions, a user can receive presence
15 information about specific communications capabilities. A presence management module 335 allows a presence client to register or unregister its presence. Different clients can register unique devices and capabilities for a given user. Some clients can detect when a user has been idle. The presence module 335 is updated when an idle threshold is reached.

20 A presence notification module 345 notifies the clients about the presence change of other clients (or devices), that subscribed to the presence of the client. Notifications of presence state changes are sent to subscribed and on-line watchers (for the interfaces that support notifications). Users are also notified when someone they have been watching changes their accessibility to
25 that user. If a user stops allowing a watcher to receive his/her presence information, the watcher is notified of this change in real time. This also applies to groups. The watcher of a group is sent a notice when his/her group membership is terminated.

An active object management module 340 maintains a list of
30 currently connected clients and synchronizes the information with the data store.

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The object management module 340 also tracks active groups. When a user logs on, all groups that the user is a member of are updated to indicate his/her presence. If the user is the first present member in the group, the group now becomes active.

5 An access control list (ACL) management module 330 allows the users to manage their access control lists. An access control list lets a user indicate who they will allow to “watch” them (i.e., receive his or her presence information). It is important in an enterprise setting, for example, to allow users to specify who (other users and groups) is permitted to receive their presence
10 data (note that this does not mean that all the users on the list will actually elect to subscribe to this user). Both ‘Allow Lists’ (no one except X, Y and Z is allowed access to my presence and availability information) and ‘Deny Lists’ (everyone except X, Y and Z is allowed access to my presence and availability information) are typically needed for Enterprise applications. Alternatively, a
15 system might require users to grant a user’s request for presence data in real time—a user is sent a message saying someone wants to add them to their subscription list and is asked to grant or not grant permission.

 In most systems, a user receives a notification when a new user wants to receive their presence information. This requires an explicit action each
20 time a user wants to reject the subscription of another user to their information. In an enterprise setting, this may not be appropriate. An ACL system is used that allows only those users and groups to receive information for which this permission had been initially granted. Users can, if they desire, toggle this setting so that everyone gets their presence information except those who are
25 explicitly listed as people who should not be permitted access to such data, in a known manner. For a group, the ACL list is used to indicate who is allowed to join the group. The member list is a list of those users who have actually joined the group. A group may be open for anyone to join or may have a list of people who are allowed to join; yet everyone on the list may not elect to join the
30 group. Groups can also have a separate subscription list.

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A datastore accessing module 360 provides a common interface through which all the data access takes place. A Lightweight Directory Access Protocol (LDAP) datastore 380 is actively supported. The LDAP datastore 380 is a persistent repository for storing the information about the objects registered with the server. It is noted that new fields can be added to any object by a client. New fields do not require any changes to the presence server 300 (new fields are automatically created). These fields can also be subscribed to by a client.

The LDAP datastore 380 provides a presence database 400, as discussed further below in conjunction with FIG. 4, for each user in the community that indicates the availability of that user for receiving communication. For each user, the presence entry indicates whether the user is present and on what device. The presence status may indicate, e.g., whether the user is present, busy, away or gone (where "away" indicates that the user is around the physical location, but has stepped out briefly and "gone" indicates that the system has no knowledge of the presence of the user). The device address tab indicates the address of each device that is available. The presence server updates the presence and device address entries based either on automatic detection of presence of the user or by a process of manual registration by the user. If so, the presence server 300 is able to determine the address at which the user is available and the capabilities of the device at that address. For example, the presence server 300 can use information gathered from user log-ins, either to a machine or an application (or both) to determine presence information. In addition, determinable user activity, such as telephone, keyboard or mouse activity, provides presence information. In an enterprise setting, a private branch exchange (PBX) switch can be monitored for a user's telephone usage and to initiate phone calls. A user's cellular telephone can be monitored to provide data on where the user is currently physically located.

The datastore accessing module 360 provides a generic interface to such different back-end datastores. An object registration and management module 370 is used to create and manage objects (users, groups, devices) and

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their information. Each user, group and device is represented in the system by objects. An access control module 350 ensures that an invoking object is authorized to access requested information before any information is accessed about any object.

5 FIG. 4 is a sample table from an exemplary presence database 400 maintained by the presence server 300. As indicated above, the presence database 400 maintains information for each user in the community, including the availability of each user to receive instant messages. As shown in FIG. 4, the presence database 400 includes a plurality of records, such as record 410, each
10 associated with a different user. For each user, identified, for example, by name in field 430, the presence database 400 indicates the user's presence in field 440, corresponding device address and capabilities in fields 450 and 460, respectively, and the user's voice mailbox in field 470. The presence entry in field 440 indicates whether the user is present at a given device registered for the user.
15 The device address in field 450 indicates the address of each device that is available for receiving instant messages for the user. The address can be any location or connection means, such as a phone number or URL, for example. The device capability in field 460 indicates the capability of the device, such as whether the device is text or voice or video capable (or some combination of the
20 foregoing), including email and fax capable devices. Finally, the voice mailbox in field 470 indicates the address of the voice mailbox for the user.

 As previously indicated, the presence server 300 updates the presence and device address entries based on the automatic detection of the presence of the user or by a process of manual registration by the user, in any
25 known manner. Thus, the presence server 300 is always able to determine whether a user is present. If present, the server 300 is able to determine the address at which the user is available and the capabilities of the device at the address. In addition, the manual registration process allows a user to prioritize the indicated device and presence information, thereby allowing instant messages

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to be delivered in accordance with the user's preferences. It is noted that the presence database 400 can include a SIP registry database

FIG. 5 illustrates an exemplary "login" process 500 that can be used by users to affirmatively register with the presence server 300. The "login" process 500 enables a user such as user 1 or user 2 to declare to the presence server 300 that he or she is present by sending an appropriate message to the presence server 300.

FIG. 6 is a flow chart describing an exemplary implementation of the client-side presence enabled voice mail application process 600. Generally, the presence enabled voice mail application process 600 queries for the presence of the sender of a voice mail message. In this manner, the presence enabled voice mail application process 600 can be said to make a voice mail client incorporating the presence enabled voice mail application process 600 a presence fetcher, as defined by IETF RFC 2278.

As shown in FIG. 6, user 2 initially leaves a voice mail message for one or more indicated recipients (including user 1) during step 610. Thereafter, the voice mail client of user 1 fetches the voice mail message from user 1's voice mailbox on the voice mail server 130 during step 620. The voice mail client also queries the presence server 300 to determine the presence of the sender (user 2) of the retrieved voice mail message during step 630. The presence server 300 responds with the presence information during step 640. Finally, the retrieved voice mail message is presented to the recipient (user 1), for example, in an "in-box," with an indication of the presence of the sender during step 650.

FIG. 7 illustrates an exemplary user interface 700 used by a voice mail client incorporating features of the present invention. The voice mail client may be embodied, for example, as the Unified Communications Center, commercially available from Avaya Inc. of Basking Ridge, NJ, as modified herein to provide the presence awareness features and functions of the present invention. As shown in FIG. 7, the exemplary user interface 700 includes a

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number of conventional fields for presenting voice mail messages to a user, such as a message identifier, subject, sender and date. In addition, the user interface 700 in accordance with the present invention includes additional fields that support the features of the present invention.

5 In an exemplary implementation, presence information is automatically presented to the user, e.g., for each new voice mail message appearing in the list of voice mails message presented in the user interface 700. As shown in FIG. 7, for each received message, the exemplary user interface 700 indicates whether the message sender is currently available (e.g., at the time the
10 message is retrieved) to receive an instant message (IM), telephone call or a page in fields 710, 720 and 730, respectively. In this manner, presence information is made available on the voice mail client and this information can be fetched for the originator of the message. In a further variation, presence information can be obtained about the sender of a given message by providing a button on the
15 interface 700 that automatically retrieves such presence information.

It is to be understood that the embodiments and variations shown and described herein are merely illustrative of the principles of this invention and that various modifications may be implemented by those skilled in the art without departing from the scope and spirit of the invention.

20

CLAIMS:

1. A method comprising:

transmitting a request by a first telecommunications device to a first server,
wherein the request is to retrieve a voice mail message recorded by a sender;

5 transmitting a query by the first telecommunications device to a second server,
wherein the query is to retrieve presence information of the sender;

receiving by the first telecommunications device:

(i) the voice mail message from the first server, and

(ii) the presence information from the second server; and

10 displaying, by the first telecommunications device, the voice mail message with
the presence information, wherein the presence information comprises an identification
of at least one of a second telecommunications device and a third telecommunications
device in which the sender is currently available to establish a communications session.

2. The method of claim 1, wherein the second server is configured to extract
15 presence information from a plurality of presence data stores, and wherein the second
server is different from the first server.

3. The method of claim 1, wherein the second server is configured to:

(i) detect the presence information of the sender at the second
telecommunications device and the third telecommunications
20 device, and

(ii) translate the presence information of the sender at the second
telecommunications device and the third telecommunications device to
a standard format.

25 4. The method of claim 1, wherein the second server is configured to determine
the availability of the sender at the second telecommunications device and the third
telecommunications device based on one or more rules that aggregate extracted presence
information.

5. The method of claim 1, wherein the first telecommunications device and the second telecommunications device are in different domains.

6. The method of claim 1, wherein the presence information indicates if the sender can be reached at one of the second telecommunications device and the third telecommunications device.

7. The method of claim 1, wherein the presence information is obtained from a registration process of the sender.

8. The method of claim 1, wherein the presence information is obtained by observing activities of the sender.

9. The method of claim 1, wherein a response to the voice mail message can be transmitted from the first telecommunications device to at least one of the second telecommunications device and the third telecommunications device based on a real time communications media.

10. The method of claim 1, wherein a response to the voice mail message can be transmitted from the first telecommunications device to at least one of the second telecommunications device and the third telecommunications device based on a non-real time communications media.

11. The method of claim 1, wherein a response to the voice mail message can be transmitted from the first telecommunications device to at least one of the second telecommunications device and the third telecommunications device based on a non-textual form of communications media.

12. A method comprising:
transmitting a request by a first telecommunications device to a first server,
wherein the request is to retrieve a voice mail message recorded by a sender;

transmitting a query by the first telecommunications device to a second server,
wherein the query is to retrieve presence information of the sender;

receiving by the first telecommunications device:

- (i) the voice mail message from the first server, and
- 5 (ii) the presence information from the second server; and

providing a mechanism for a recipient at the first telecommunications device to
transmit a response to at least one of:

- (i) a second telecommunications device, and
- (ii) a third telecommunication device

10 in which the sender is currently available to establish a communications session, wherein
the mechanism automatically configures the response.

13. The method of claim 12, wherein the mechanism enables the recipient to
respond to the voice mail message of the sender, and wherein the recipient and the
sender are in different domains.

15 14. The method of claim 12, wherein a response to the voice mail message can
be transmitted from the first telecommunications device to at least one of the second
telecommunications device and the third telecommunications device based on a real time
communications media.

20 15. The method of claim 12, wherein a response to the voice mail message can
be transmitted from the first telecommunications device to at least one of the second
telecommunications device and the third telecommunications device based on a non-real
time communications media.

25 16. The method of claim 12, wherein a response to the voice mail message can
be transmitted from the first telecommunications device to at least one of the second
telecommunications device and the third telecommunications device based on a non-
textual form of communications media.

30 17. An apparatus comprising:
a memory; and

at least one processor, coupled to the memory, operative to:

transmit a request to a first server, wherein the request is to retrieve a voice mail message recorded by a sender;

5 transmit a query to a second server, wherein the query is to retrieve presence information of the sender;

receive:

(i) the voice mail message from the first server, and

(ii) the presence information from the second server; and

10 display the voice mail message with the presence information, wherein the presence information comprises an identification of at least one of a second telecommunications device and a third telecommunications device in which the sender is currently available to establish a communications session.

18. The apparatus of claim 17, wherein the second server is configured to extract presence information from a plurality of presence data stores.

15 19. The apparatus of claim 17, wherein the second server is configured to:

(i) detect the presence information of the sender at the second telecommunications device and the third telecommunications device, and

20 (ii) translate the presence information of the sender at the second telecommunications device and the third telecommunications device to a standard format.

25 20. The apparatus of claim 17, wherein the second server is configured to determine the availability of the sender at the second telecommunications device and the third telecommunications device based on one or more rules that aggregate extracted presence information.

21. The apparatus of claim 17, wherein the first telecommunications device and the second telecommunications device are in different domains.

22. The apparatus of claim 17, wherein the presence information indicates if the sender can be reached at one of the second telecommunications device and the third telecommunications device.

23. The apparatus of claim 17, wherein a response to the voice mail message
5 can be transmitted from the first telecommunications device to at least one of the second telecommunications device and the third telecommunications device based on a non-textual form of communications media.

24. The apparatus of claim 17, wherein the presence information indicates a presence status of the sender across a plurality of domains.

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FIG. 1

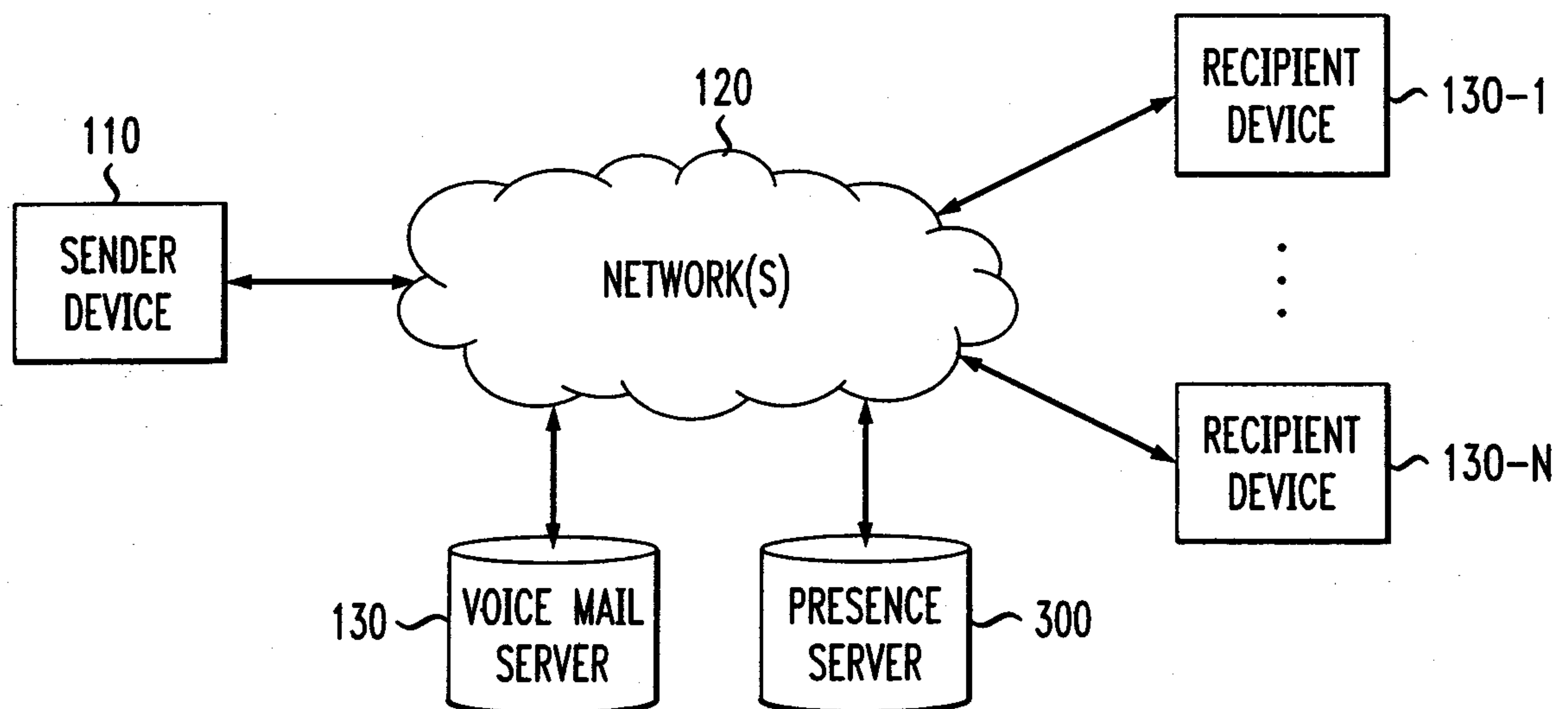
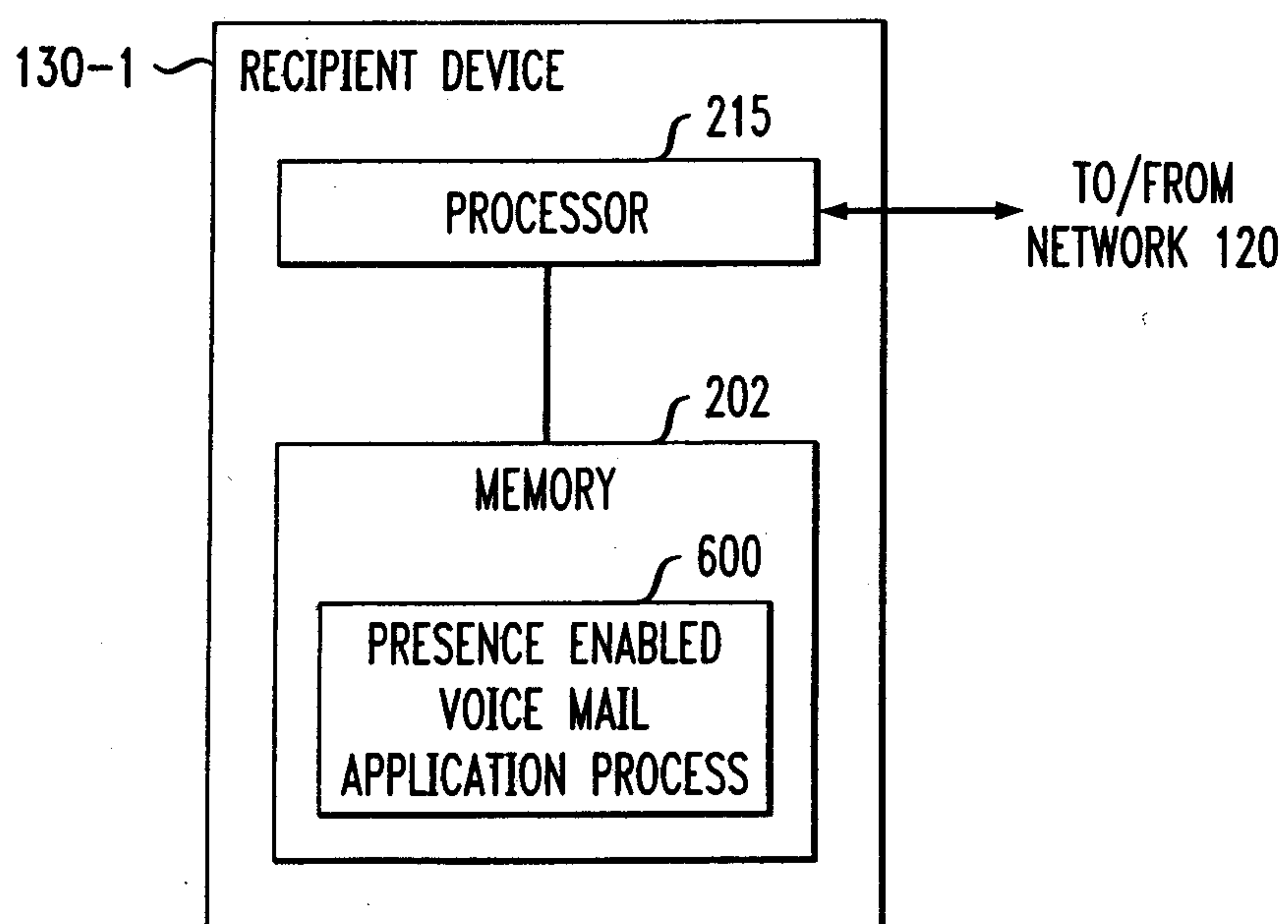


FIG. 2



2/5

FIG. 3

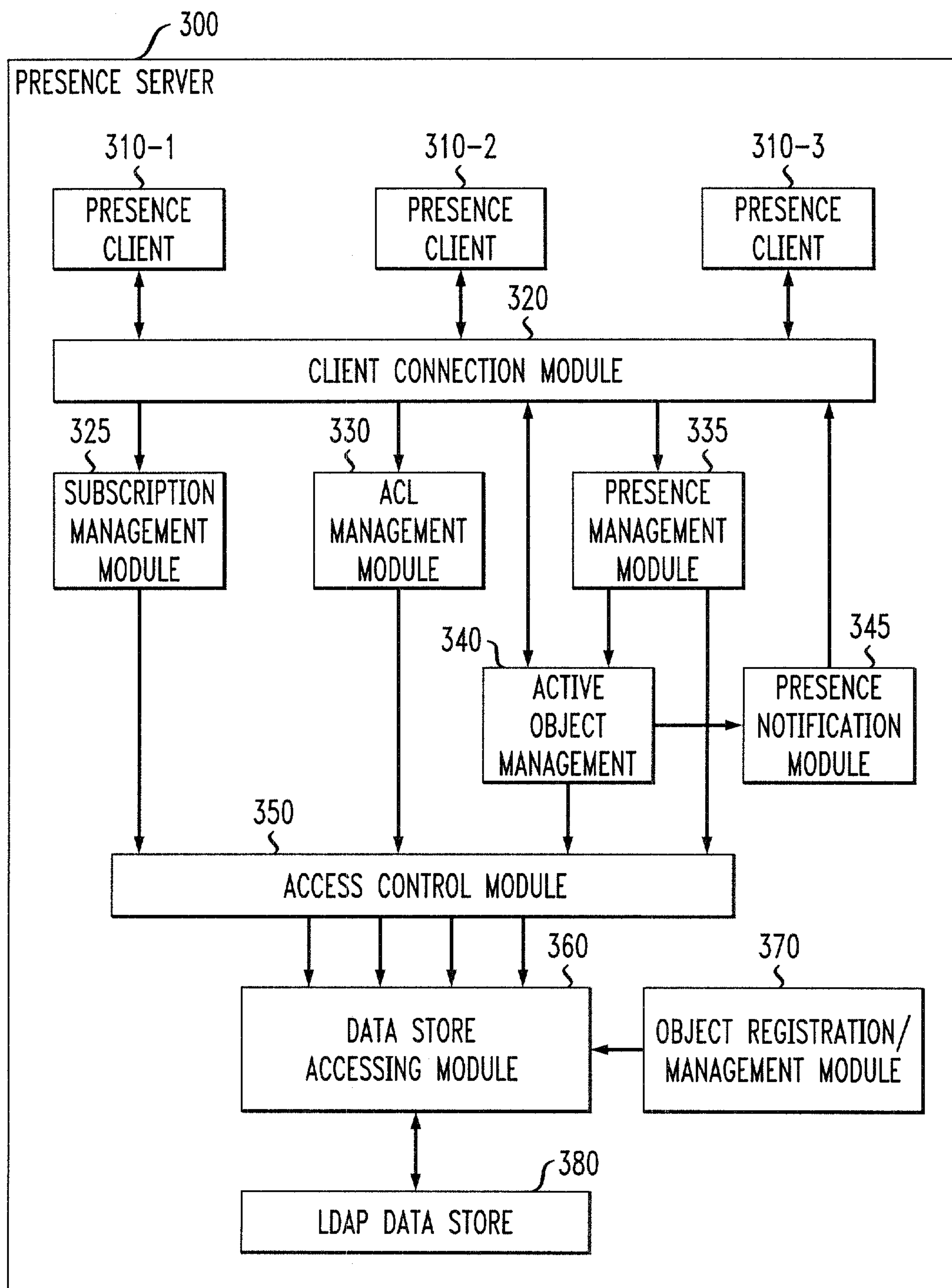


FIG. 4
PRESENCE DATABASE - 400

430 ⎵	440 ⎵	450 ⎵	460 ⎵	470 ⎵
USER NAME	PRESENCE STATUS	DEVICE ADDRESS	DEVICE CAPABILITY	VOICE MAILBOX
⋮	⋮	⋮	⋮	⋮
USER A	BUSY	TEL: (732)-555-1212	VOICE VOICE/TEXT	732-555-1212 <u>7325551212@voicemail.abccorp.com</u>
	AWAY	<u>SIP: usera@laptop.abccorp.com</u>	TEXT	<u>usera@abccorp.com</u> <u>usera@abccorp.com</u>
	ONLINE	<u>SMTP: usera@abccorp.com</u>	TEXT	<u>usera@abccorp.com</u>
⋮	⋮	⋮	⋮	⋮

410 ~

FIG. 5

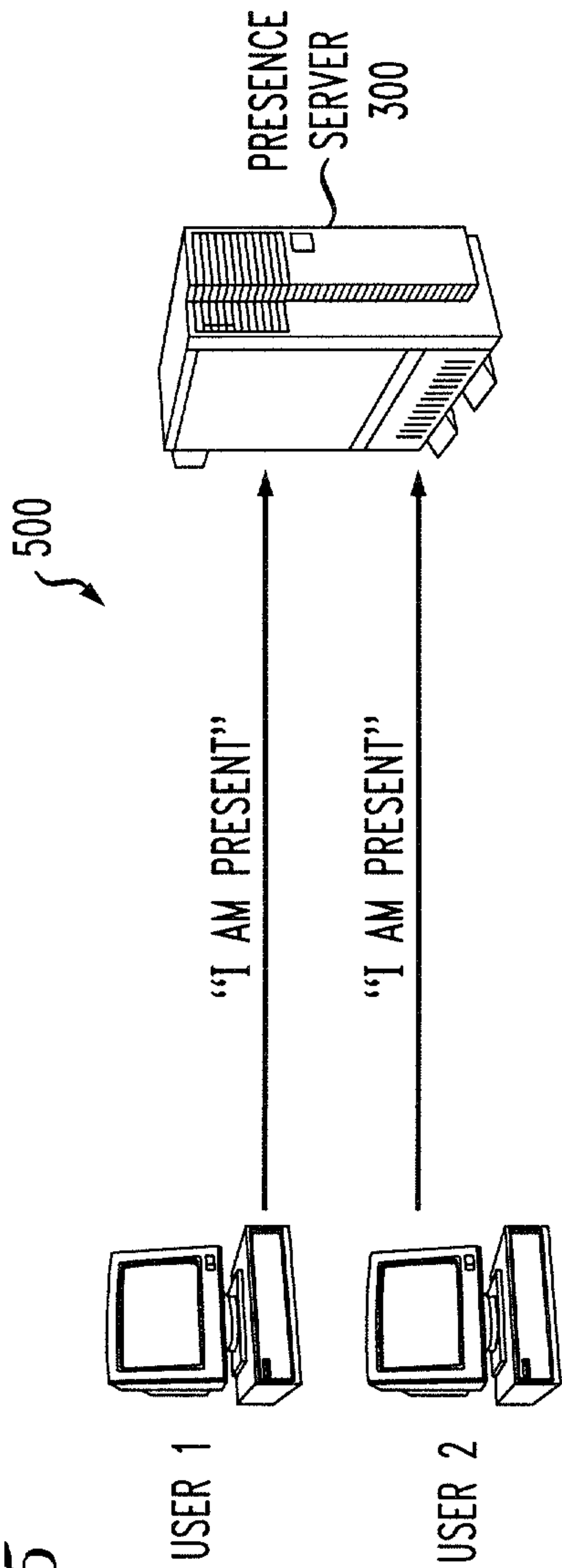


FIG. 6

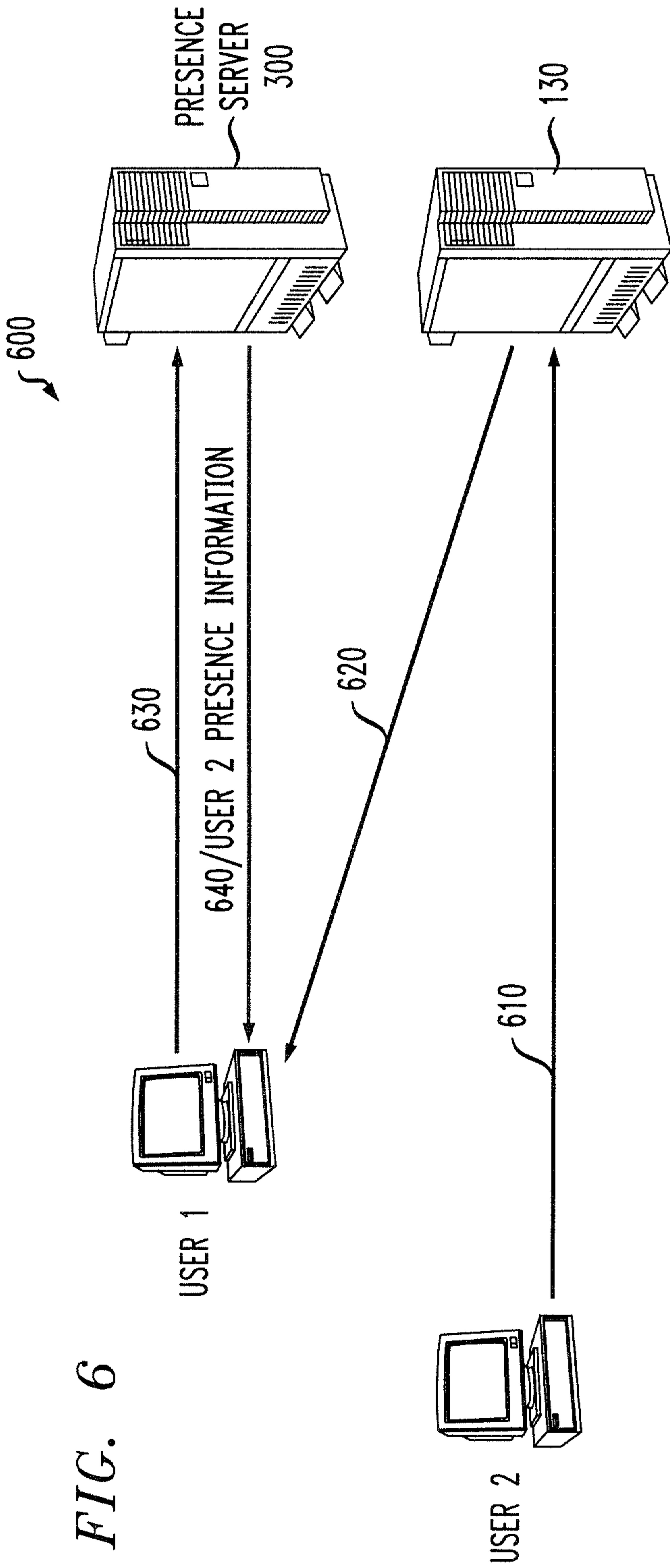
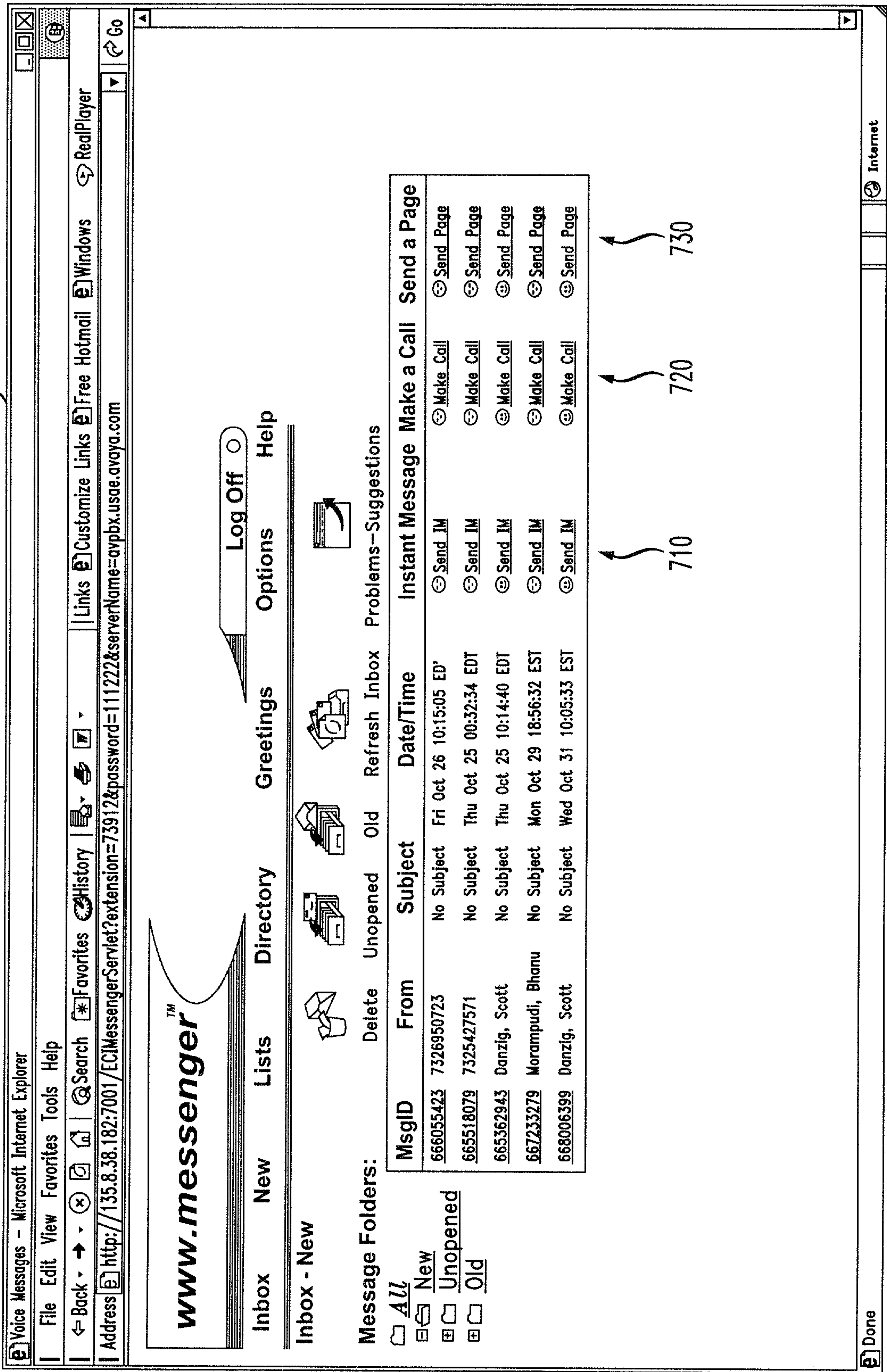


FIG. 7

700



130-1

RECIPIENT DEVICE

215

PROCESSOR

TO/FROM
NETWORK 120

202

MEMORY

600

PRESENCE ENABLED
VOICE MAIL
APPLICATION PROCESS

