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(54) **APPARATUS AND METHOD FOR
MAINTAINING A MESSAGE THREAD WITH
OPT-IN PERMANENCE FOR ENTRIES**

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(52) **U.S. Cl.**
CPC **H04L 51/16** (2013.01)

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H04L 63/0428; H04L 51/22; H04L 51/34;
H04L 51/30
USPC 709/206
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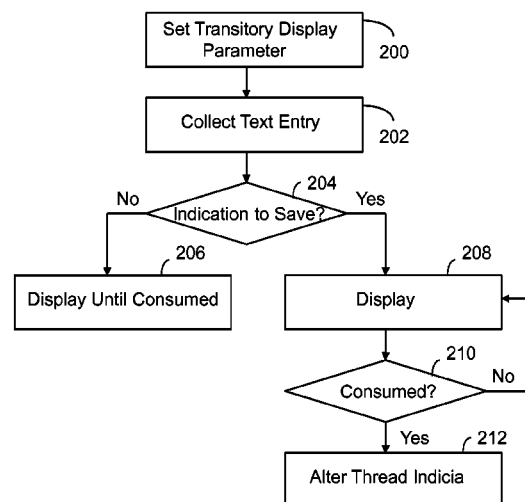
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(57) **ABSTRACT**

A server includes a message thread module with instructions executed by a processor to maintain a message thread between a first user and a second user. Each entry of the message thread is deleted after a display period unless an indication regarding the entry is received during the display period.

2 Claims, 6 Drawing Sheets



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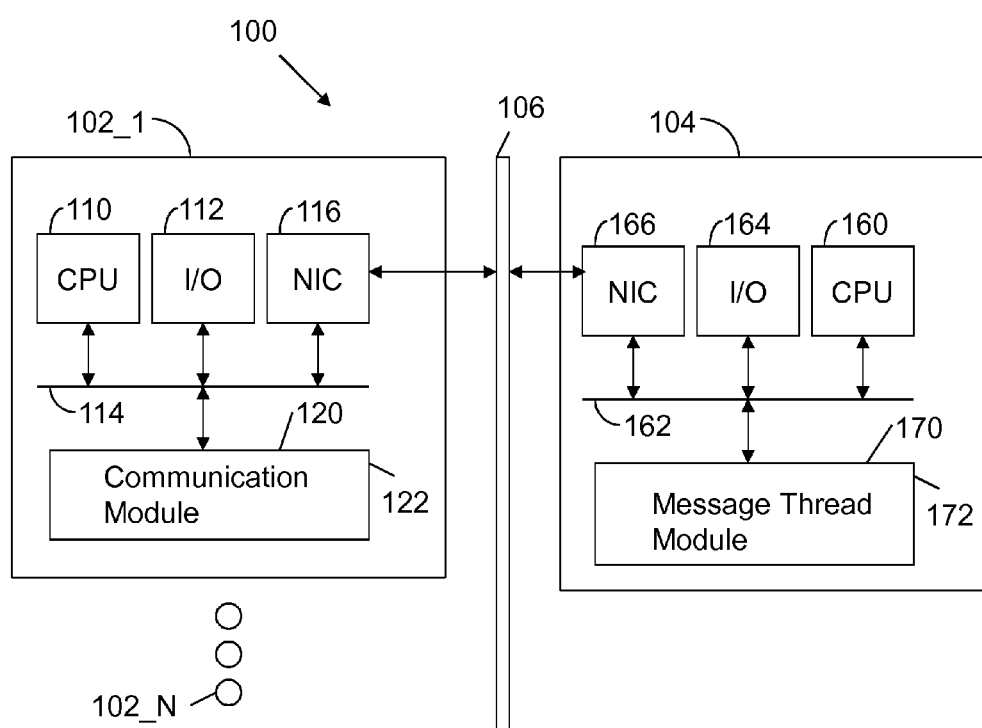


FIG. 1

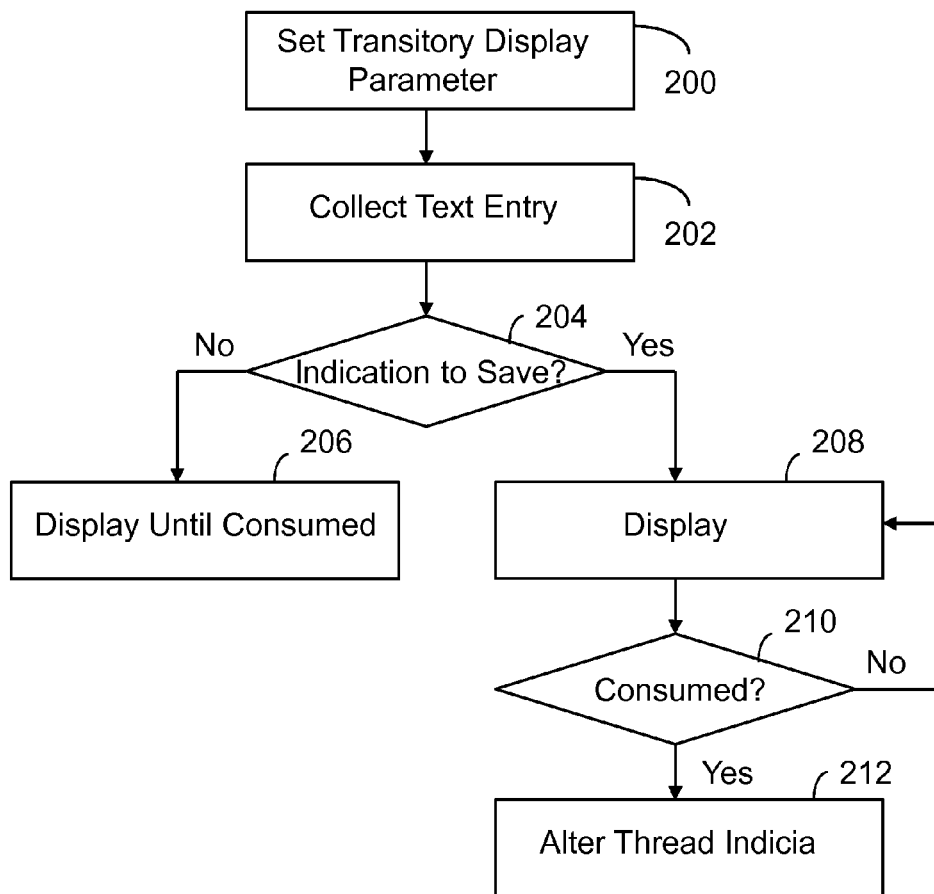


FIG. 2

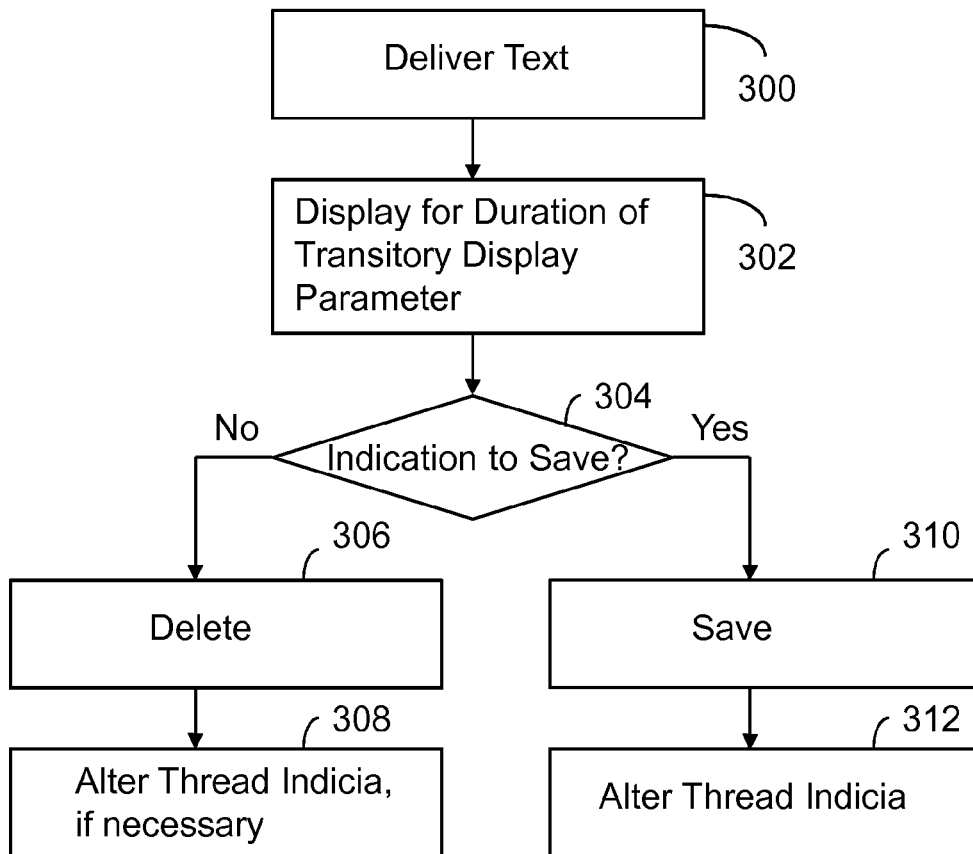


FIG. 3

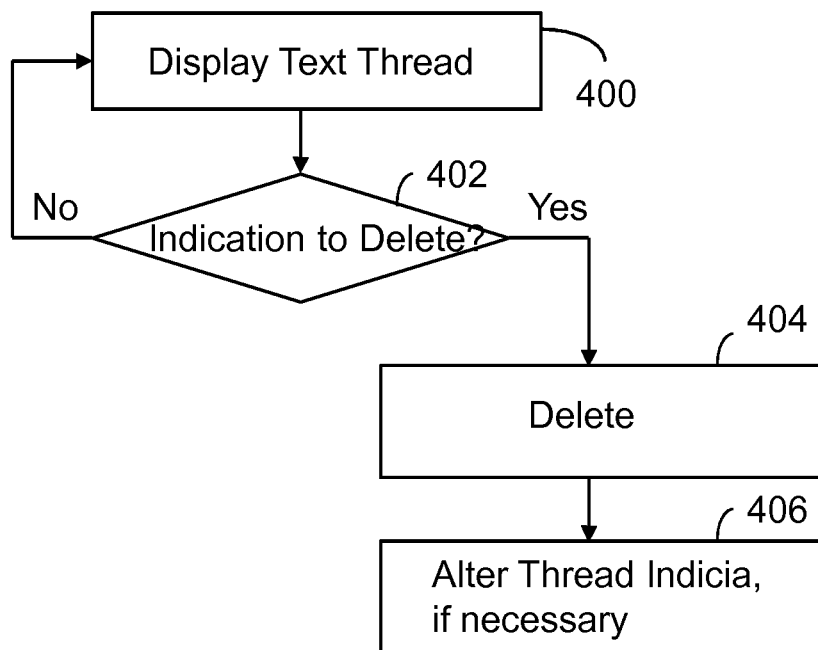


FIG. 4

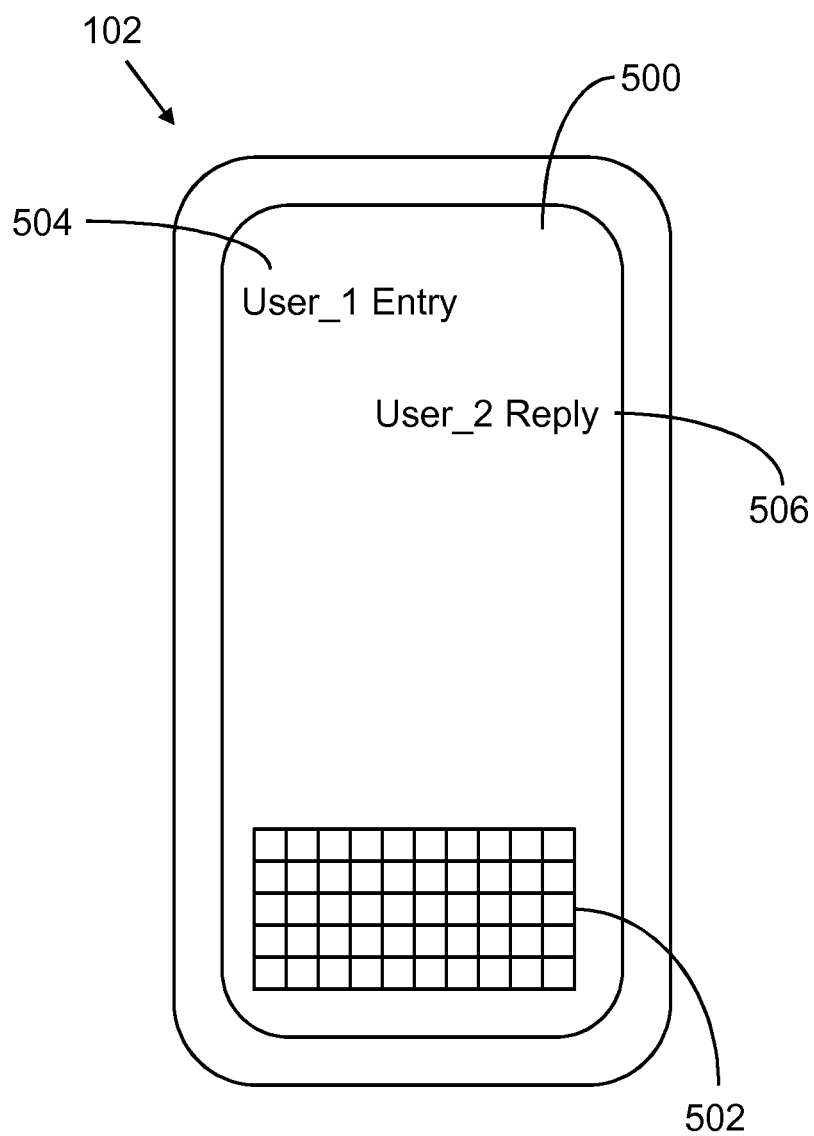


FIG. 5

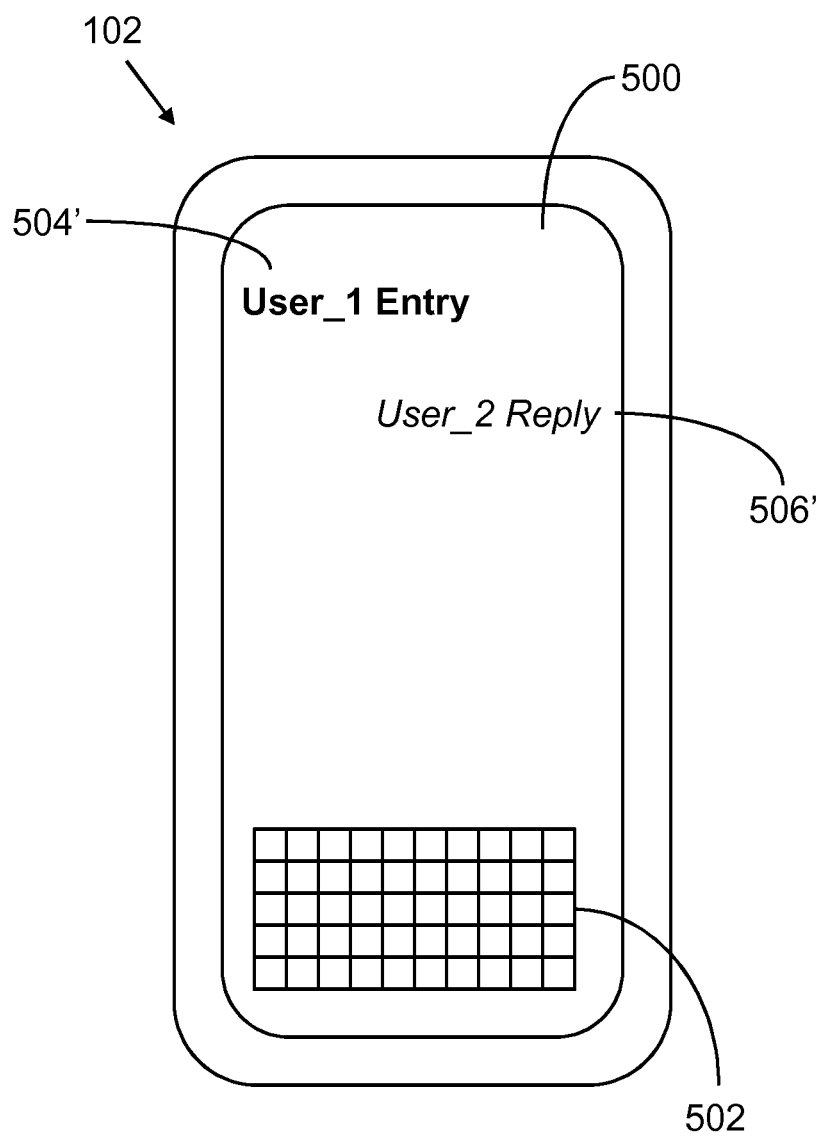


FIG. 6

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APPARATUS AND METHOD FOR MAINTAINING A MESSAGE THREAD WITH OPT-IN PERMANENCE FOR ENTRIES

FIELD OF THE INVENTION

This invention relates generally to communications in a networked environment. More particularly, this invention relates to maintaining a message thread with opt-in permanence for entries.

BACKGROUND OF THE INVENTION

Communications between individuals are increasingly digitized and transmitted via the Internet. Individuals are communicating through text messages, email messages, voice mail messages and the like. In the case of a text message between two individuals a conversation thread is maintained. Each individual contributes text to a chronologically listed record of the communications between the two individuals. With each new communication, a new entry is added to the communication thread. Either individual can review the conversation thread at any time and edit it locally in the messaging client.

Maintaining a complete and precise record of a sequence of communication may inhibit the spontaneity of an interaction. For example, when one has a conversation with an individual, it is typically not recorded and therefore the exchange may be more candid.

A live conversation between two individuals may be memorialized with notes, but in this case there is visual feedback indicating when one individual is recording information, which allows the other individual to clarify a point or otherwise alter the direction of the conversation.

Storing the entire contents of a digital conversation may also make it difficult to surface the most important information. It is a case of information overload. Selectively saving certain communications in an ephemeral conversation thread allows the user to quickly recall or reference important aspects of the thread.

In view of the foregoing, it would be desirable to have a digital communication mechanism that more naturally mimics the types of interactions to which individuals are accustomed.

SUMMARY OF THE INVENTION

A server includes a message thread module with instructions executed by a processor to maintain a message thread between a first user and a second user. Each entry of the message thread is deleted after a display period unless an indication regarding the entry is received during the display period.

BRIEF DESCRIPTION OF THE FIGURES

The invention is more fully appreciated in connection with the following detailed description taken in conjunction with the accompanying drawings, in which:

FIG. 1 illustrates a system configured in accordance with an embodiment of the invention.

FIG. 2 illustrates message generation processing utilized in accordance with an embodiment of the invention.

FIG. 3 illustrates message consumption processing utilized in accordance with an embodiment of the invention.

FIG. 4 illustrates message thread review processing utilized in accordance with an embodiment of the invention.

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FIG. 5 illustrates a first message thread displayed in accordance with an embodiment of the invention.

FIG. 6 illustrates the message thread of FIG. 5 with altered parameters associated with entries of the message thread.

Like reference numerals refer to corresponding parts throughout the several views of the drawings.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 illustrates a system **100** configured in accordance with an embodiment of the invention. The system **100** includes a set of client devices **102_1** through **102_N** and at least one server **104** connected via a network **106**, which may be any wired or wireless network.

Each client device **102** may be a computer, tablet, Smartphone and the like with standard components, such as a central processing unit **110** connected to input/output devices **112** via a bus **114**. The input/output devices **112** may include a touch display, keyboard, mouse and the like. A network interface circuit **116** is also connected to the bus **114** to provide connectivity with network **106**.

A memory **120** is also connected to the bus **114**. The memory **120** stores standard components, such as a communication module **122**. The communication module **122** may be a text message module that supports Short Message Service (SMS) texting. Alternately, the communication module **122** may be a browser, which supports access to an email server. Alternately, the communication module **122** may be a telephony interface that supports telephone interactions, such as voice messages.

Server **104** also includes standard components, such as a central processing unit **160** connected to input/output devices **164** via a bus **162**. A network interface circuit **166** is also connected to the bus **162**. Further, a memory **170** is connected to the bus **162**. The memory **170** stores modules of executable instructions to implement disclosed operations. For example, the memory **170** may store a message thread module **172**, which maintains a thread of communications between at least two individuals. The thread of communications may be a text message thread, an email with a sequence of returned communications or a voice mail file with a sequence of returned communications.

The configuration of system **100** is exemplary. The system **100** may include multiple servers **104** and a variety of communication devices to support various forms of digital communication.

FIG. 2 illustrates processing operations associated with an embodiment of the message thread module **172**. In particular, the figure illustrates message generation processing utilized in accordance with an embodiment of the invention. By way of example, operations will be discussed in the context of text messaging.

Initially, a transitory display parameter is set **200**. The transitory display parameter may be set as a default value (e.g., a 3 second viewing period) or it may be set through user input. The notion associated with the transitory display parameter is that all message entries will be deleted after the transitory display parameter time expires and therefore message entries are transitory, unless an individual opts-in for message entry permanence.

The next operation of FIG. 2 is to collect a text entry **202**. The text entry collection process is terminated when an individual indicates that the text entry should be sent. At this point it is determined if there was an indication to save the text entry **204**. The indication may be in the form of a

gesture applied to the screen where the text is entered. Alternately, the indication may be based upon a specified key or combination of keys on a keyboard used to enter the text.

If there is no indication to save the entry (204—No), then the text is displayed in the thread associated with the sender and the recipient. When the recipient reads or otherwise consumes the entry, the entry is deleted from the thread associated with the sender 206.

If there is an indication to save the entry (204—Yes), then the entry is displayed in its original form in the thread associated with the sender and the recipient. A check is periodically made to determine if the entry has been read by the recipient 210. If not (210—No), the entry continues to be displayed in its original form. If so (210—Yes), indicia associated with the thread is altered 212. That is, after the recipient reads the entry the nature of the entry will be altered on the sending side and the receiving side. If the recipient does not provide an indication to save the entry, then the indicia of the entry on the sending side thread will be altered to indicate that only one of the two parties (the sender) has saved the entry. If the recipient provides an indication to save the entry, then the indicia of the entry on the sending side and the receiving side is altered to indicate that both of the parties have saved the entry. In an alternate embodiment, the message may be restored in the sender side thread if the recipient provides an indication to save the message. This restoration in the sender side thread includes indicia that the recipient saved the message, although the sender originally declined to do so.

The operations of FIG. 2 are performed by the message thread module 172 operating in conjunction with a client device 102. That is, operations such as collecting a text entry 202 and identifying an indication to save 204 are performed at the client device 102, with the results of the operations passed and processed to the message thread module 172. Similarly, the display until consumed operation 206, display operation 208 and altering of thread indicia 212 are manifested at the client device 102 in response to information supplied by the message thread module 172.

FIG. 3 illustrates message consumption processing operations performed in accordance with an embodiment of the invention. The message thread module 127 coordinates the delivery of the text to the recipient 300. The text is displayed for the duration of the transitory display parameter 302. That is, the message thread module 127 directs the client device 102 to display the text for the duration of the transitory display parameter. Alternately, the text may be displayed until it is actively deleted or the user scrolls past it without saving it.

It is determined whether there is an indication to save the entry 304 during the duration of the transitory display parameter. If not (304—No), the message is deleted 306 from the recipient's thread. Thread indicia of the sender is altered, if necessary 308. That is, if the sender elected to preserve the entry, then indicia associated with the entry would be altered to indicate that the sender preserved the entry, but the recipient did not.

If there is an indication to save the entry (304—Yes), the entry is saved in the recipient's thread 310. The thread indicia is altered 312 to at least indicate that the recipient has saved the entry. If the sender also saved the entry, then the sender's indicia and the recipient's indicia reflect that both entities have saved the message.

FIG. 4 illustrates thread review processing that may be performed in accordance with an embodiment of the invention. Initially, a text thread is displayed to a user 400. The

text thread is between the user and one or more other users. As the user scrolls through the text thread, individual entries may be deleted. If so (402—Yes), the individual entry is deleted 404. If necessary, indicia associated with the entry on another device is altered 406. For example, if another user had saved the entry and the present user had saved the entry initially, then the indicia associated with the entry on the two client devices would indicate that both parties saved the entry. After one party deletes the entry, the indicia associated with the entry for the other party indicates that only a single party has saved the entry.

FIG. 5 illustrates a client device 102 with a display screen 500 and a keyboard 502. The display screen 500 displays a thread including a first entry 504 from a first user and a second entry 506 from a second user. The first entry 504 is persisted in response to a gesture applied to the display screen 500. The second entry 506 is also persisted in response to a gesture applied to the display screen 500.

FIG. 6 illustrates updated indicia indicating different states of entry preservation. Entry 504' is in bold to reflect that both the sender and the recipient persisted the entry. Entry 506' is italicized to indicate that the reply was preserved by the recipient, but not the sender.

Thus, in this example, a parameter in the form of varying fonts is altered to reflect the persistence of an entry. Other parameters may be used, such as a separate graphic indicative of the preservation states. Alternately, the parameter may be in the form of a number where a 1 indicates that only the user of the client device has saved the entry and where the number 2 indicates that two parties have saved the entry. Larger numbers may be used in the event of a group message. A text color scheme may also be used to indicate preservation states.

In one embodiment, the message thread module 172 is configured to eliminate the ability to copy/paste a conversation? This prevents aspects of the conversation from being taken out of context. In addition, this feature keeps the record of the "saved" communications consistent.

Thus, it will be appreciated that the disclosed techniques allow for a digital communication mechanism that more naturally mimics the types of interactions to which individuals are accustomed. That is, individual utterances (entries) are transitory in nature, unless a user opts-in to preserve an utterance. Opting-in to preserve an utterance may result in feedback that allows a counter-party to know that another has preserved the entry.

In addition to providing a more natural communication flow, the invention may provide a more condensed communication thread where only perceived important entries are preserved. This can be advantageous in connection with the use of a mobile device, which has a small screen and therefore a limited ability to display information. This may also be advantageous as it reduces the amount of information that needs to be communicated across a network.

The invention has been disclosed in the context of text communications. However, the same techniques may be applied to email communications or threaded voicemail or multimedia communications.

An embodiment of the present invention relates to a computer storage product with a non-transitory computer readable storage medium having computer code thereon for performing various computer-implemented operations. The media and computer code may be those specially designed and constructed for the purposes of the present invention, or they may be of the kind well known and available to those having skill in the computer software arts. Examples of computer-readable media include, but are not limited to:

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magnetic media, optical media, magneto-optical media and hardware devices that are specially configured to store and execute program code, such as application-specific integrated circuits (“ASICs”), programmable logic devices (“PLDs”) and ROM and RAM devices. Examples of computer code include machine code, such as produced by a compiler, and files containing higher-level code that are executed by a computer using an interpreter. For example, an embodiment of the invention may be implemented using JAVA®, C++, or other object-oriented programming language and development tools. Another embodiment of the invention may be implemented in hardwired circuitry in place of, or in combination with, machine-executable software instructions.

The foregoing description, for purposes of explanation, used specific nomenclature to provide a thorough understanding of the invention. However, it will be apparent to one skilled in the art that specific details are not required in order to practice the invention. Thus, the foregoing descriptions of specific embodiments of the invention are presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the invention to the precise forms disclosed; obviously, many modifications and variations are possible in view of the above teachings. The embodiments were chosen and described in order to best explain the principles of the invention and its practical applications, they thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as are suited to the particular use contemplated. It is intended that the following claims and their equivalents define the scope of the invention.

The invention claimed is:

1. A method implemented by a server with a processor and a memory storing instructions executed by the processor to maintain a first message thread and a second message thread between a first user and a second user by:

directing, by the server, a second client device to display a text entry of the second message thread for a duration

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of a transitory display period, wherein the text entry is from the first user and is presented on a second display screen associated with the second client device of the second user, and wherein the first user generates the text entry with a first indication to preserve the text entry in the first message thread, wherein the first indication is a first gesture applied to a first display screen of a first client device associated with the first user that is received by the server as the first indication; automatically deleting at the server the text entry of the second message thread for the second user after the duration of the transitory display period unless a second indication of a second gesture applied to the second display screen presenting the text entry of the message thread on the second client device associated with the second user is received at the server during the transitory display period, in which case the text entry of the message thread is maintained by the server for the second message thread and the server provides feedback to the first user that the text entry of the second message thread is preserved; and

modifying, at the direction of the server, the text entry of the first message thread associated with the first user on the first display screen associated with the first user if the server receives the second indication that the second user applied the second gesture to the second display screen associated with the second user during the transitory display period, wherein modifying includes the server providing first indicia indicating that only the first user provided the first indication and that there was no second indication and therefore only the first user preserved the text entry or second indicia in response to the first indication and the second indication to indicate that both the first user and the second user preserved the text entry.

2. The method of claim 1 wherein the transitory display period is a single digit number of seconds.

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