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(54) **MOBILE COMMUNICATION TERMINAL AND METHOD OF THE SAME FOR OUTPUTTING SHORT MESSAGE**

(58) **Field of Classification Search**  
None  
See application file for complete search history.

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**Related U.S. Patent Documents**

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CPC ..... **H04M 1/576** (2013.01); **H04L 51/224** (2022.05); **H04M 1/72436** (2021.01); **H04W 4/12** (2013.01)

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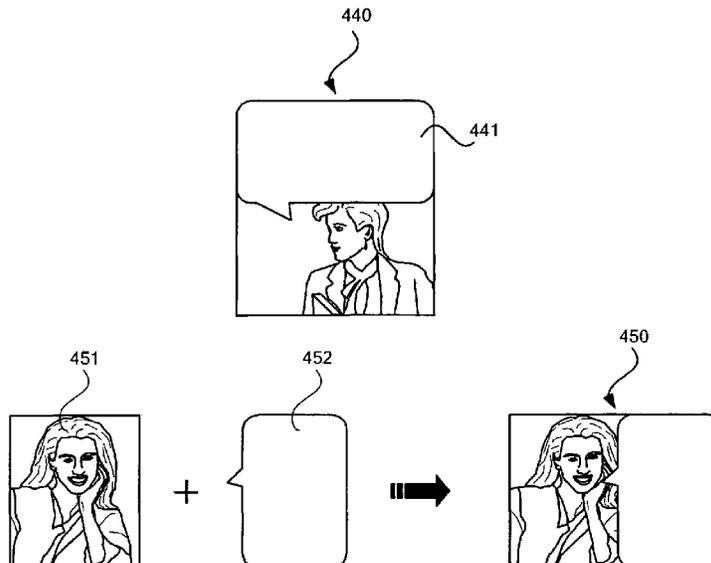
Getting started with your Power Book G4, Apple computer, Inc. copyright 2002, p. 34.

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(57) **ABSTRACT**

A mobile communication terminal and a method for outputting a short message thereof are provided. The mobile communication terminal according to an exemplary embodiment of the present invention includes a short message interpretation unit which extracts a phone number of a sender from a header of a short message, a short message processing unit which obtains an image mapped to the extracted phone number and generates a screen on which the image is combined with the text of the short message, a mapping unit which maps the image to the phone number of the sender, a storage unit which stores the phone number of the sender and the image and an output unit which outputs the screen.

**25 Claims, 10 Drawing Sheets**



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FIG. 1

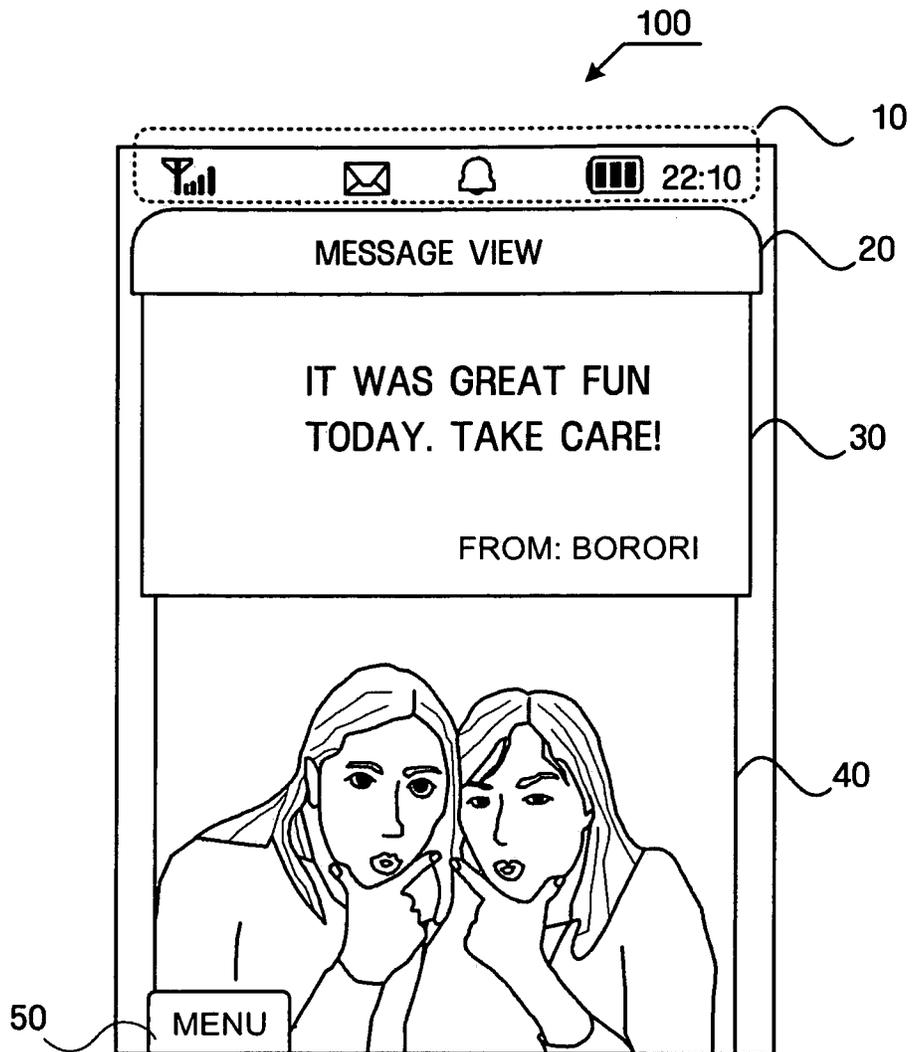


FIG. 2

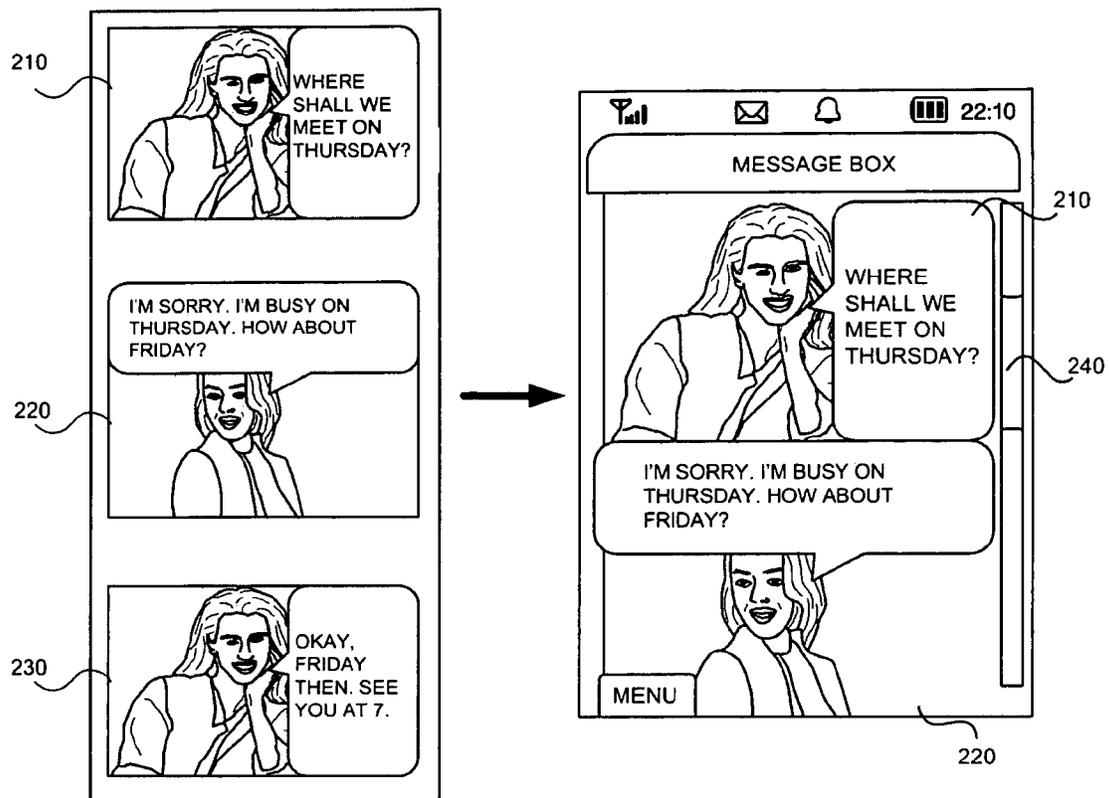
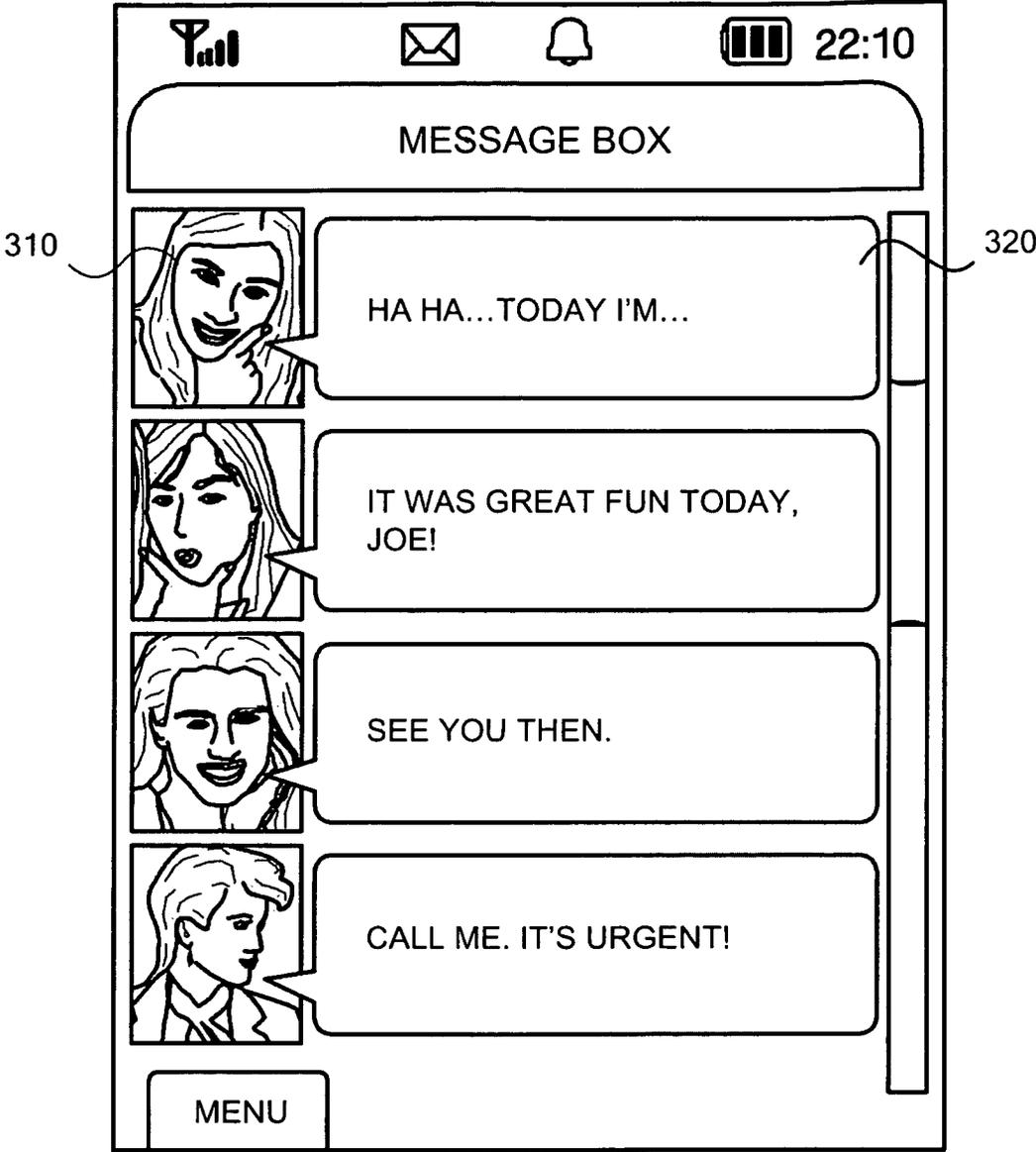
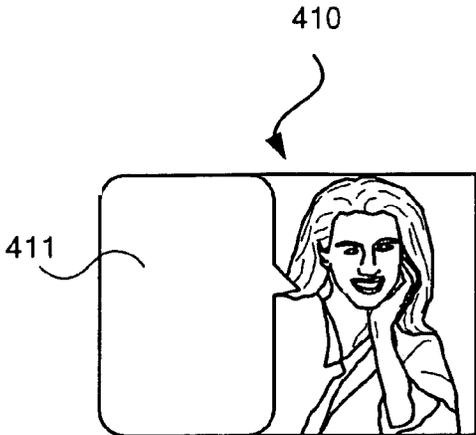


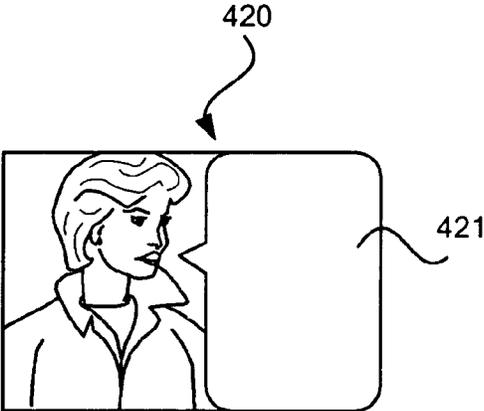
FIG. 3



**FIG. 4A**



**FIG. 4B**



**FIG. 4C**

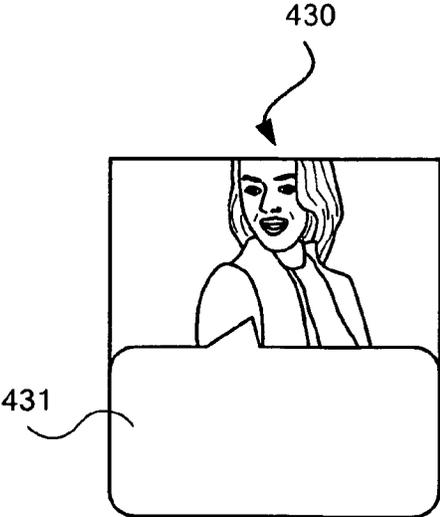


FIG. 4D

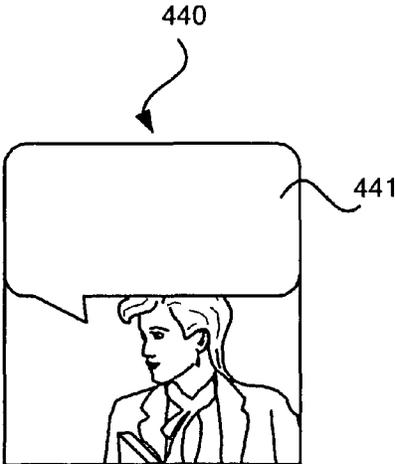


FIG. 4E

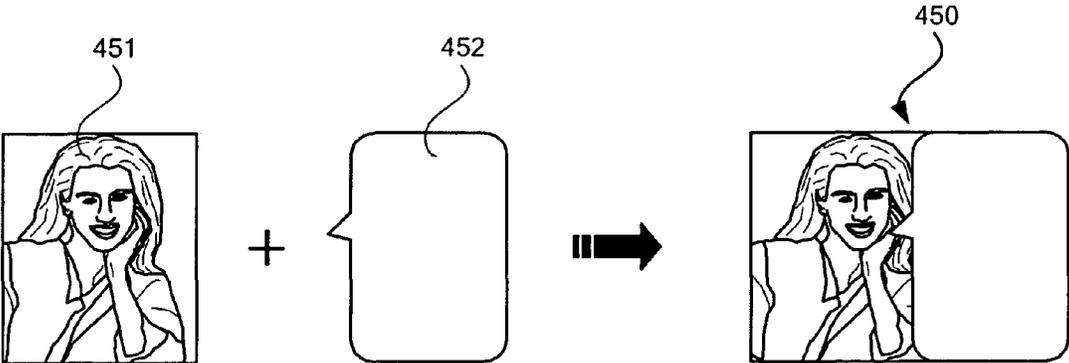


FIG. 5

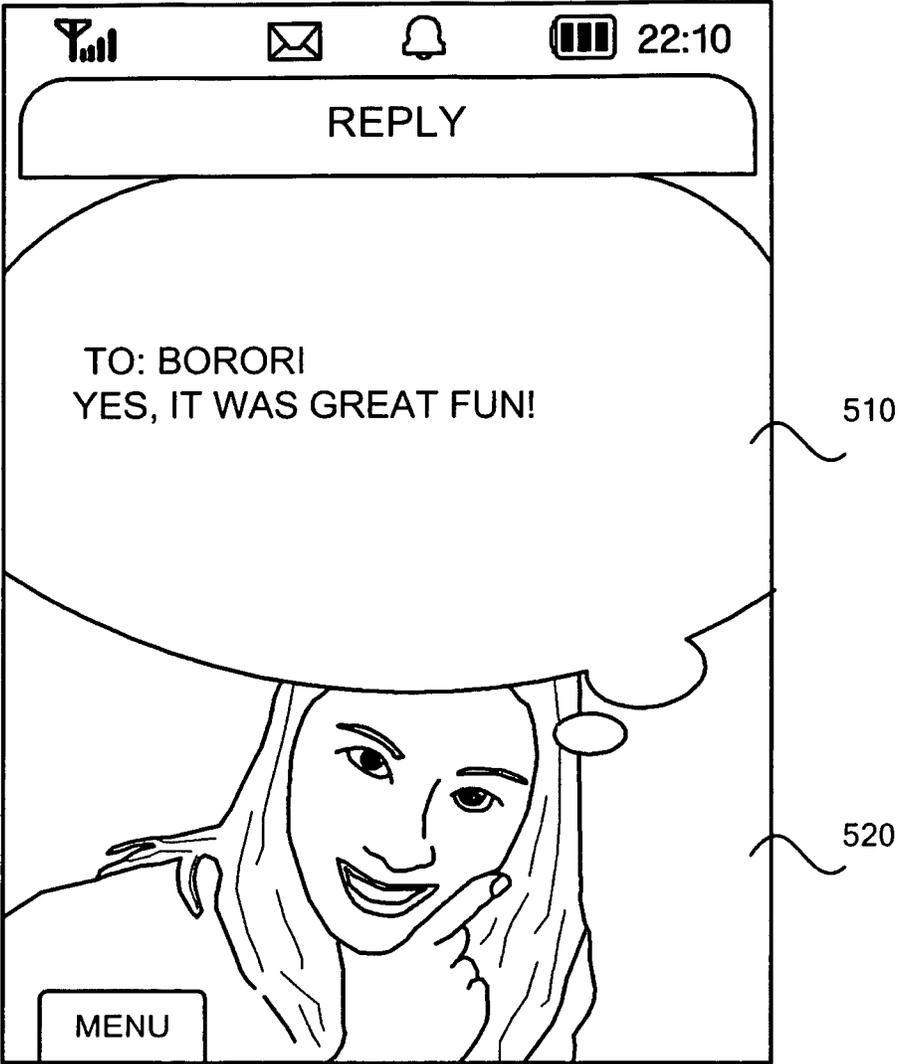


FIG. 6

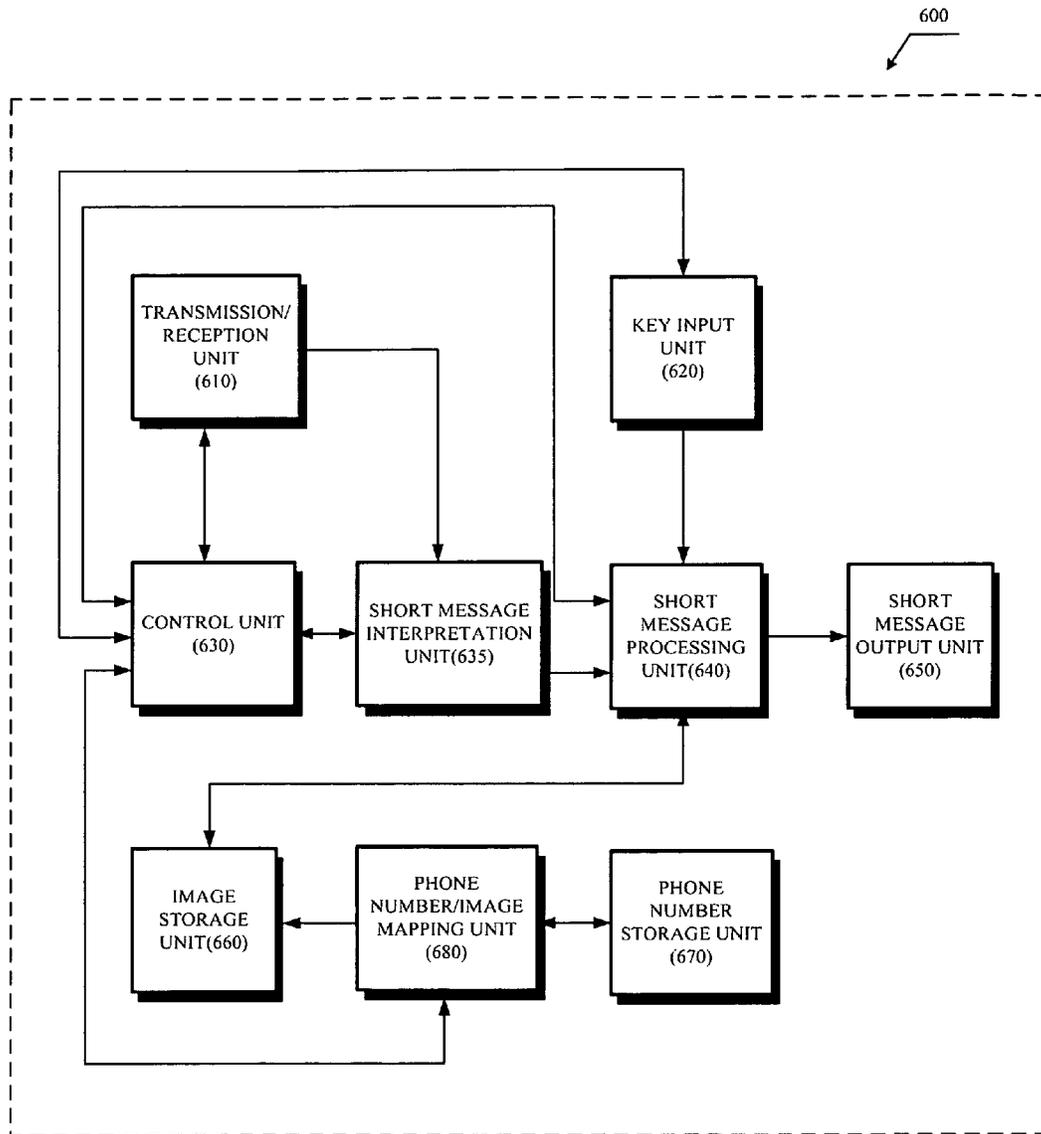


FIG. 7

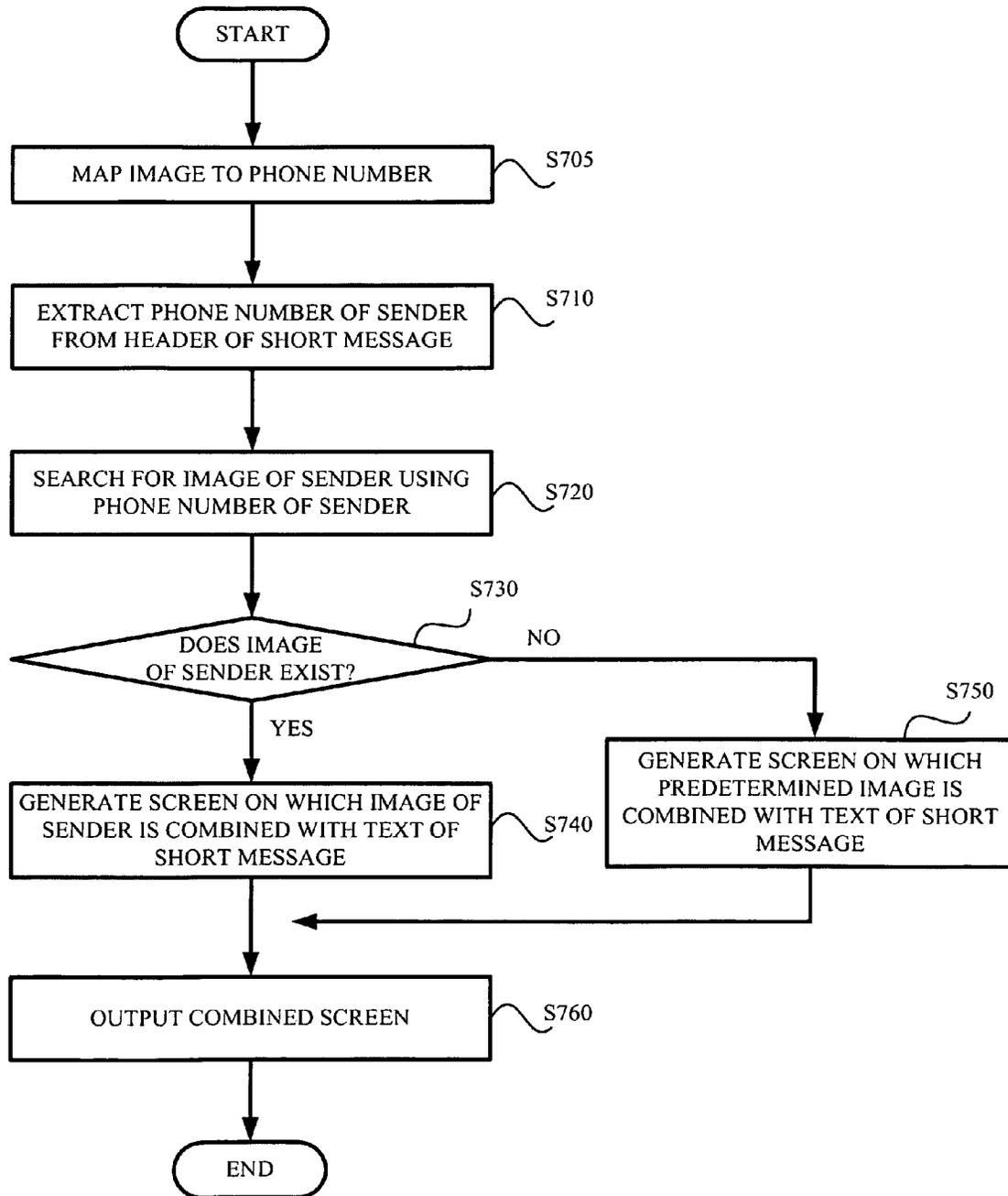


FIG. 8

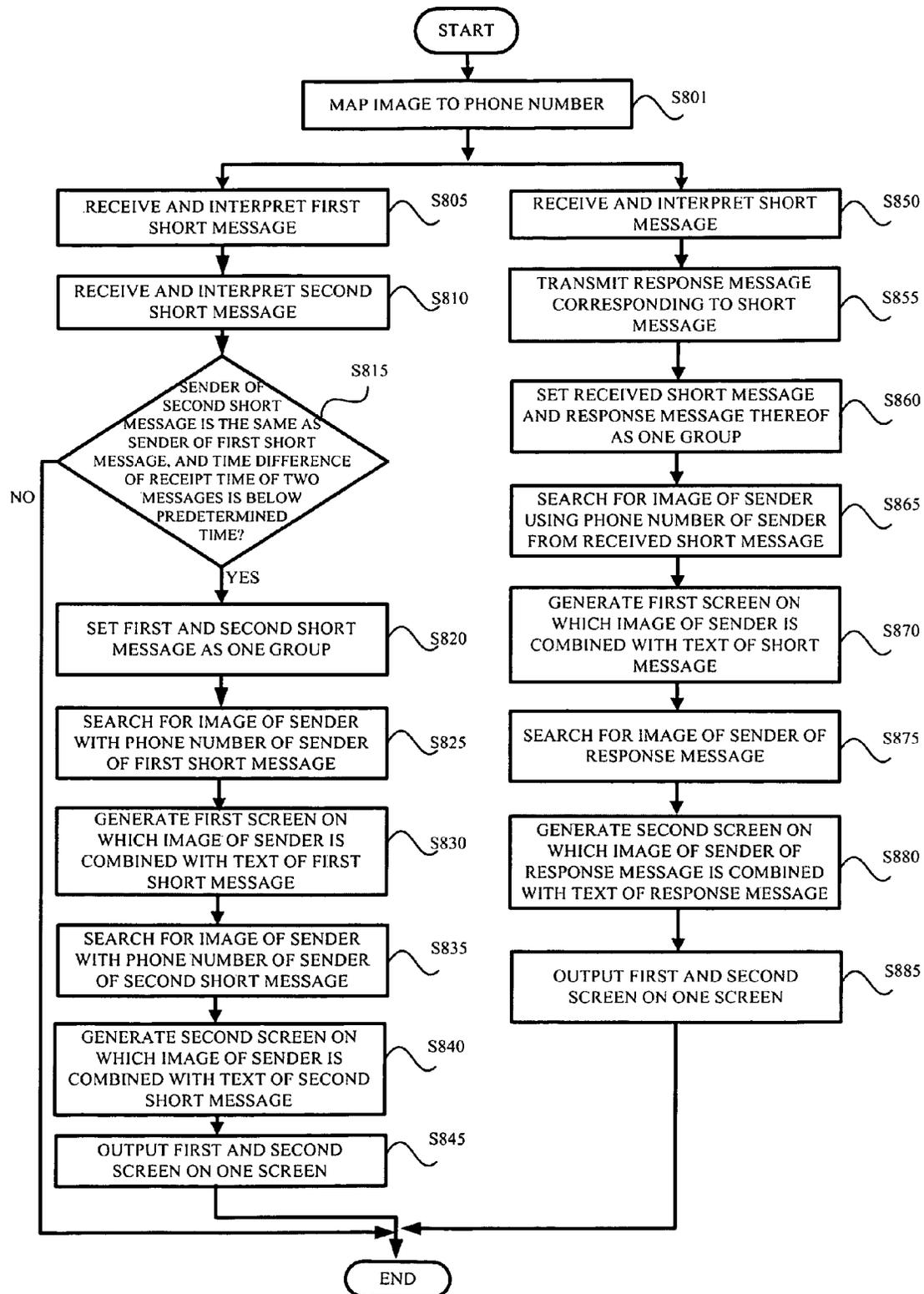
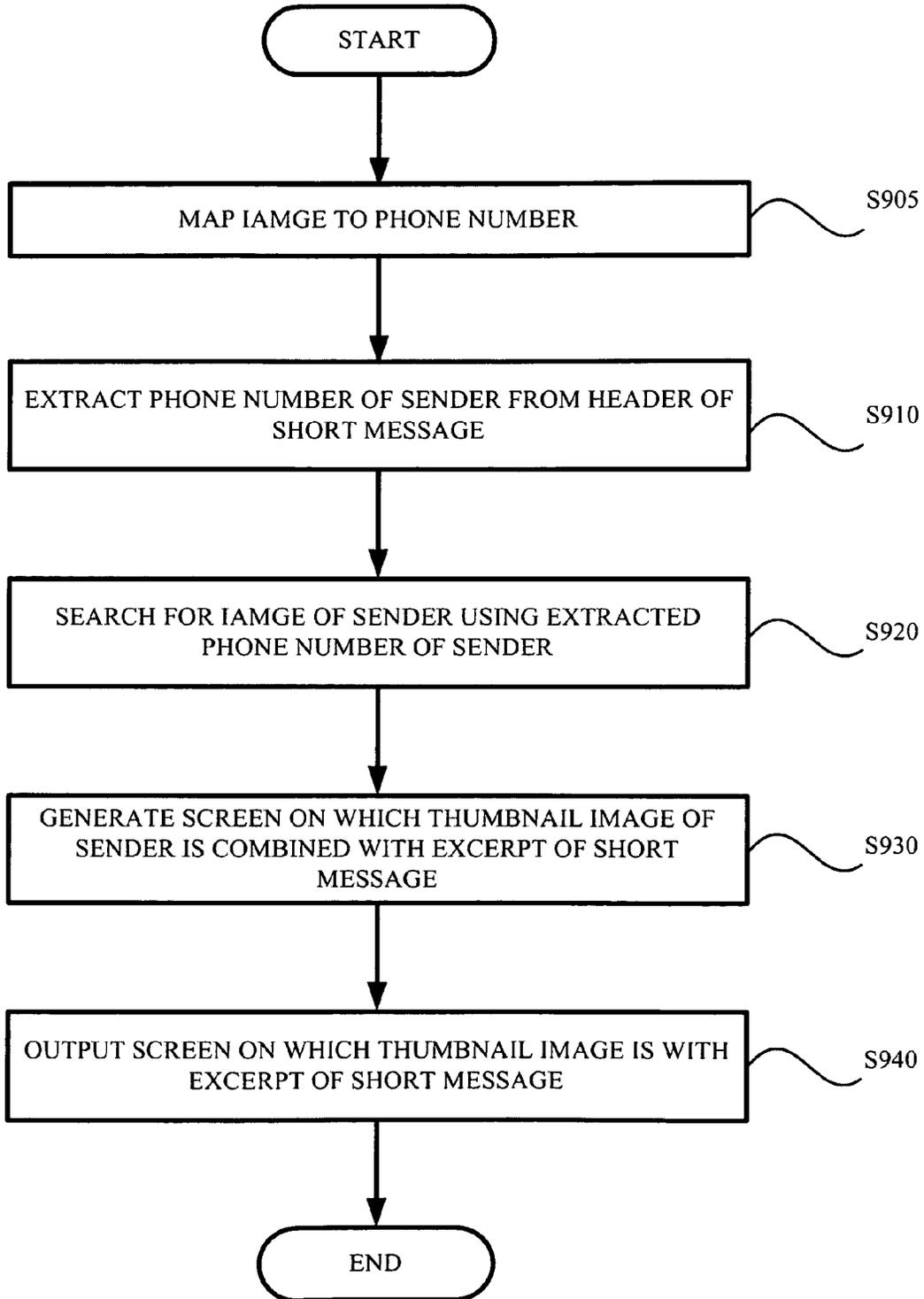


FIG. 9



## MOBILE COMMUNICATION TERMINAL AND METHOD OF THE SAME FOR OUTPUTTING SHORT MESSAGE

**Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue; a claim printed with strikethrough indicates that the claim was canceled, disclaimed, or held invalid by a prior post-patent action or proceeding.**

### CROSS-REFERENCE TO RELATED APPLICATION

[This application claims priority from Korean Patent Application No. 10-2005-0082862 filed on Sep. 6, 2005 in the Korean Intellectual Property Office, the entire disclosure of which is incorporated herein by reference.] *More than one reissue application has been filed for the reissue of U.S. Pat. No. 8,463,303, filed as U.S. application Ser. No. 11/515,756 on Sep. 6, 2006. The reissue applications are the present application, and U.S. application Ser. No. 14/558,365, filed on Dec. 2, 2014, in the U.S. Patent and Trademark Office. The present application is an application for reissue of U.S. Pat. No. 8,463,303, and is a continuation of U.S. application Ser. No. 14/558,365, which is also an application for reissue of U.S. Pat. No. 8,463,303.*

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

Apparatuses and methods consistent with the present invention relate to a mobile communication terminal and a method of the same for outputting a short message. More particularly, the present invention relates to a mobile communication terminal and a method of the same for outputting a short message, that can display information on a sender of a short message easily by enabling the mobile communication terminal to output an image of the sender together with the short message.

#### 2. Description of the Related Art

A related art mobile communication terminal outputs a screen that is mainly composed of text information including a message, a sender, and a send time. A Multimedia Messaging Service (MMS) provided by some mobile communication terminals sends and receives messages including multimedia data, such as an image and a sound as well as text, and thus, can extend the scope of information in a mobile communication system.

Korean Patent Publication No. 2004-025313 discloses a method for editing and transmitting a picture in a mobile communication terminal. The disclosed method allows a user to select a picture by searching pictures stored in a memory, edit the picture by inputting a memo into the selected picture, and transmit the edited picture. However, the method disclosed by the Korean Patent Publication No. 2004-025313 is merely a method for transmitting the picture to the mobile communication terminal and has the problem that it is difficult for a receiver to quickly realize the identity of the sender.

### SUMMARY OF THE INVENTION

The present invention provides a mobile communication terminal and a method for outputting a short message thereof, which enables a receiver to quickly realize infor-

mation on a sender by outputting a received short message together with an image capable of representing the sender.

The present invention also provides a mobile communication terminal and a method for outputting a short message thereof, which can prevent related messages from being cut off by forming and continuously outputting a plurality of short messages into one group.

The present invention also provides a mobile communication terminal and a method for outputting a short message thereof, which enables a user to have an interest by displaying a short message like a cartoon using images and word balloons.

According to an aspect of the present invention, there is provided a mobile communication terminal, comprising a short message interpretation unit configured to extract a phone number of a sender from a header of a short message; a short message processing unit configured to obtain an image which is mapped to the extracted phone number and generate a screen which combines the image with a text of the short message; a phone number-image mapping unit configured to map the phone number and the image of the sender; a storage unit configured to store the phone number and the image of the sender; and an output unit configured to output the screen.

According to another aspect of the present invention, there is provided a method for outputting a short message, comprising mapping a phone number and an image of a sender of a short message; extracting the phone number of the sender from a header of the short message; obtaining an image which is mapped to the extracted phone number; generating a screen which combines the image with a text of the short message; and outputting the screen.

According to another aspect of the present invention, there is provided a method for outputting a short message, comprising mapping a first image to a phone number of a first sender, and a second image to a phone number of a second sender; extracting the phone number of the first sender from a header of a first short message; obtaining a first image from the header of the first short message; generating a first screen which combines the first image with a text of the first short message; extracting the phone number of the second sender from a header of a second short message; obtaining the second image which is mapped to the phone number of the second sender; generating a second screen which combines the second image with a text of the second short message; and outputting the first and the second screen continuously.

### BRIEF DESCRIPTION OF THE DRAWINGS

The above and other features aspects of the present invention will become more apparent by describing in detail exemplary embodiments thereof with reference to the attached drawings in which:

FIG. 1 is a diagram illustrating a mobile communication terminal for outputting a short message according to an exemplary embodiment of the present invention;

FIG. 2 is a diagram illustrating the mobile communication terminal for outputting a plurality of short messages together on one screen according to an exemplary embodiment of the present invention;

FIG. 3 is a diagram illustrating a preview screen provided by the mobile communication terminal according to an exemplary embodiment of the present invention;

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FIGS. 4A to 4E are diagrams illustrating a screen configuration according to a method for outputting a short message according to an exemplary embodiment of the present invention;

FIG. 5 is a diagram illustrating a screen which the mobile communication terminal uses to compose a short message according to an exemplary embodiment of the present invention;

FIG. 6 is a diagram illustrating the construction of the mobile communication terminal according to an exemplary embodiment of the present invention;

FIG. 7 is a flow chart illustrating a process of showing the text of a short message in the method for outputting the short message according to an exemplary embodiment of the present invention;

FIG. 8 is a flow chart illustrating a process of outputting the text of two or more short messages on one screen in the method for outputting the short message according to an exemplary embodiment of the present invention;

FIG. 9 is a flow chart illustrating a process of outputting a preview screen of the short message in the method for outputting the short message according to an exemplary embodiment of the present invention.

#### DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

Subject matters and features of the exemplary embodiments of the present invention will be covered by the detailed description and drawings.

Advantages and features of the present invention and methods of accomplishing the same may be understood more readily by reference to the following detailed description of the exemplary embodiments and the accompanying drawings. The present invention may, however, be embodied in many different forms and should not be construed as being limited to the exemplary embodiments set forth herein. Rather, these exemplary embodiments are provided so that this disclosure will be thorough and complete and will fully convey the concept of the invention to those skilled in the art, and the present invention will only be defined by the appended claims. Like reference numerals refer to like elements throughout the specification.

Exemplary embodiments of the present invention will be described in more detail with reference to the accompanying drawings.

It should be noted that a combination of respective blocks of accompanying block diagrams and respective steps of flow charts may be performed by computer program instructions. Since the computer program instructions may be executed in a processor of a general purpose computer, a special purpose computer or processors of other programmable data processing equipment, the instructions generate means for performing the functions explained in respective blocks of the block diagrams or in respective steps of the flow charts. Since the computer program instructions can be stored in a computer readable memory capable of directing the computer or other programmable data processing equipments so as to implement the functions in a specific mode, the instructions stored in the computer readable memory may also produce manufacturing items including instruction units for performing the functions explained in respective blocks of the block diagrams or respective steps of the flow charts. Additionally, since the computer program instructions may be also be executed in a computer or other programmable data processing equipment, the instructions for performing the series of operational steps in the com-

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puter or other programmable data processing equipment and performing the computer or other programmable data processing equipments by generating a computer executable process, may provide steps for executing the functions explained in respective blocks of the block diagrams and respective steps of the flow charts.

Further, the respective blocks or the respective steps may represent a part of a module, a segment or a code including one or more executable instructions for executing specific logic function(s). Additionally, it should be noted that functions referred in blocks or steps may be generated without regard to orders in some alternate exemplary embodiments. For example, it is possible that two blocks or steps illustrated in succession are executed concurrently or in reverse order due to relevant functions.

FIG. 1 is a diagram illustrating a mobile communication terminal for outputting a short message according to an exemplary embodiment of the present invention.

The mobile communication terminal, according to the exemplary embodiment, makes it possible for a user to quickly realize the identity of the sender of the short message by displaying the short message together with an image representing the sender, which corresponds to the sender's phone number. An exemplary embodiment of a display screen of the mobile communication terminal capable of outputting the text of the short message may include a status bar **10** for displaying icons representing a state of the mobile communication terminal, a title bar **20** for displaying a menu title, a message text area **30** for displaying the text of the short message, an image area **40** for displaying an image, a tab **50** for selecting a popup menu and the like.

The image includes all images capable of representing the identity of the sender of the short message, and may include an image of the sender, an emoticon for symbolizing the sender, and the like. The image of the sender may also be displayed with the name and/or phone number of the sender. In other words, even if several persons are displayed in the image, the user can still know the identity of the caller.

FIG. 1 illustrates an image of two people in the image area **40** and the name of the sender is displayed in the message text area **30**.

According to the exemplary embodiment, a short message display of the mobile communication terminal may display several messages on one screen using a scroll technique. FIG. 2 illustrates an exemplary embodiment where the short message viewer outputs a plurality of short messages together on one screen.

The mobile communication terminal according to the exemplary embodiment may simply display several short messages, or it may display short messages repeatedly sent to and/or received from the same person mainly using a "reply" function as one group, and display the short messages using the scroll technique. At this time, if a user of the mobile communication terminal sends a response message to a received message from another person, it is easy to group the message received from the other person and the response message as the same group. However, if a sender sends a response message corresponding to the message sent by the user of the mobile communication terminal, it is difficult to distinguish whether the received message is a response message or a new message. In this case, if a another message is received from the same sender within a predetermined time, the mobile communication terminal regards the two messages as one group. This method may be used in the mobile communication terminal according to an exemplary embodiment of the present invention.

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For example, if a message **220** is transmitted as a response message after receiving a message **210** from a specific person, the message **210** and the message **220** are regarded as one group. If a message **230** is received from the same sender as the previous message **210** within a predetermined time, the message **230** is regarded as part of the group containing the message **210**. Accordingly, the messages **210**, **220** and **230** may be maintained as one group and continuously outputted in a message viewer of the mobile communication terminal.

Modes for continuously outputting a plurality of messages include a mode for sequentially outputting a separate screen corresponding to respective message, and a mode for sequentially outputting screens corresponding to a respective message on one screen. The user may select one of the modes.

FIG. 2 shows all screens of the messages **210**, **220** and **230** connected on one screen and simultaneously outputted, and the user conveniently views related messages while scrolling the screens upward and downward using a scroll bar **240**. Specifically, it is convenient for the user because it vertically connects the respective screens containing images of the sender and text within word balloons, and arraying like a comic strip. At this time, since the amount of that can be shown on one screen of the mobile communication terminal is limited, a scroll bar should be provided.

FIG. 3 is a diagram illustrating a preview screen provided by the mobile communication terminal according to an exemplary embodiment of the present invention.

The preview screen is a screen for displaying catalogs of messages before displaying the text of a short message. In general, conventional preview screens only display text, but the mobile communication terminal according to the exemplary embodiment displays catalogs of short messages with an image of the sender of the short message. The image of the sender is reduced in size and is displayed **310** as a thumbnail. An excerpt **320** of the short message is displayed beside of the image.

If one item of the preview screen is selected, the screen is converted into a message content view screen. At this time, when the selected item indicates a group having two or more messages, all messages in the group may be output by connecting them using the scroll technique, and they may be respectively output one at a time.

FIGS. 4A to 4E are diagrams illustrating an example of a screen configuration in a method for outputting a short message according to an exemplary embodiment of the present invention.

When an image of a sender of a short message is obtained, the mobile communication terminal according to the present invention integrates the corresponding image with the text of the short message, forms one screen and outputs the screen. The screen may be composed according to the content of the selected image using various methods, as described below.

As illustrated in FIGS. 4A to 4E an area for displaying the text of the short message may be a word balloon. Word balloon areas **411**, **421**, **431** and **441** may be located in the upper, lower part of the image, or on the right or left side of the image. The position of the word balloon is decided by analyzing the location and the direction of the face of the person in the image. The word balloon is arranged in such a manner that the face is not covered.

However, this analysis process may not be used, and the word balloon may be added so as not to cover the entire area of the image. Further, when the user of the mobile communication terminal registers the image in the phone number, the position of the text in the corresponding image may be

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predetermined, and the position of the text in the image may also be selected by determining whether to apply to a respective image a certain pattern of several predetermined patterns. However, according to exemplary embodiment the present invention, these methods are not limited, and it is possible to appropriately array the image and the word balloon in many ways.

FIGS. 4A to 4E illustrate examples of arraying a word balloon differently according to the content of the image. As shown in FIG. 4A, an image **410** arrays a word balloon **411** on the left side because the person is leaning to the right. In this case, the image and the word balloon may be arrayed on one screen without reducing the size of the image.

As shown in FIG. 4B, an image **420** arrays a word balloon **421** on the right because the person is leaning to the left. As shown in FIG. 4C, an image **430** arrays a word balloon **431** at the bottom of the screen because the person is upwardly disposed. As shown in FIG. 4D, an image **440** arrays a word balloon **441** upward because the person is downwardly disposed.

As shown in FIG. 4E, an image **450** arrays the word balloon beside the image so as not to cover the face. In this case, the size of the image may be reduced to half of the screen so as to array the image and the word balloon on one screen of the mobile communication terminal.

FIG. 5 illustrates a screen for composing a short message in the mobile communication terminal according to an exemplary embodiment of the present invention.

Referring to FIG. 5, the short message may be directly inputted inside a word balloon by displaying an image **520** and a word balloon **510** together on a screen. The image **520** displayed at this time is a picture of a user of the mobile communication terminal. A method for finding an image of a user will be described below with reference to FIG. 7. At this time, the image is displayed only in the mobile communication terminal of the sender. This is different from the multimedia messaging service where image data is directly transmitted.

FIG. 6 is a block diagram illustrating the construction of a mobile communication terminal according to an exemplary embodiment of the present invention.

The mobile communication terminal **600** according to the exemplary embodiment may include a transmitting/receiving unit **610**, a key input unit **620**, a control unit **630**, a short message interpretation unit **635**, a short message processing unit **640**, a short message output unit **650**, an image storage unit **670**, and a phone-number/image mapping unit **680**.

The phone-number/image mapping unit **680** receives a phone number to be mapped to an image, and stores the phone number as tag information of the image in the image storage unit **660** when the image is stored in the image storage unit **660**.

The transmitting/receiving unit **610** receives a short message composed by a user, and transmits it.

The key input unit **620** receives a command inputted to the mobile communication terminal and the contents of the short message when a user composes the short message, and transmits them to the control unit **630** or the short message processing unit **640**.

The short message interpretation unit **635** parses the short message transmitted by the transmission/receipt unit **610**, and extracts information on the phone number of a sender or the received time of the short message from a header.

The short message processing unit **640** obtains, from the image storage unit **660**, the image, which is mapped to the phone number, using the phone number of the sender transmitted by the short message interpretation unit **635**,

generates a screen on which the image of the sender is combined with the text of the short message, and transmits the screen to the short message output unit **650**. Meanwhile, the short message processing unit **640** groups two or more short messages, and controls the messages as a group. The short message processing unit **640** outputs the screens on which the images of a plurality of short messages are combined with text.

Further, the short message processing unit **640** generates a preview screen of the short message and transmits the preview screen to the short message output unit **650**. The preview screen, as described in detail in FIG. **3**, may be generated by combining a thumbnail image of the sender with an excerpt of the short message.

The short message output unit **650** receives and outputs a text screen of the short message, a scroll screen with which combines the text screens of a plurality of short messages, a preview screen of the short message and the like from the short message processing unit **640**.

FIG. **6** illustrates that the image storage unit **660** is separated from the phone number storage unit **670**. However, it should be apparent to those skilled in the art that the storage units **660** and **670** may be implemented separately or integrated into one storage unit.

The control unit **630** functionally connects the transmitting/receiving unit **610**, the key input unit **620**, the short message interpretation unit **635**, the short message processing unit **640**, and the phone-number/image mapping unit **680**, and controls the operation of each respective unit.

Respective elements shown in FIG. **6** may be embodied as software or hardware such as a field programmable gate array (FPGA) and an application-specific integrated circuit (ASIC). The elements may be constituted so as to be included in an addressable storage media, or to execute one or more processors. A function provided by the elements may be implemented by segmenting the elements, or by integrating a plurality of elements and performing a specific function. Moreover, the elements may be implemented so as to execute one or more computers in a system.

FIG. **7** is a flow chart illustrating a process of displaying the text of a short message in the short message outputting method according to an exemplary embodiment of the present invention.

The mobile communication terminal **600** according to the exemplary embodiment performs an operation of mapping an image in the terminal to a phone number (**S705**). This mapping may be achieved by receiving the phone number to be mapped from the user when the image is stored. The mobile communication terminal performs parsing on the short message received from another mobile communication terminal or composed by the user, and extracts the phone number of the sender from a header (**S710**). The mobile communication terminal searches for an image of the sender mapped to the phone number of the sender (**S720**). In the case where several images are combined, an image may be arbitrarily selected or an image suitable for the contents of the text of the message may be selected. For example, when a smiling image, a crying image, an angry image of a specific sender or the like are registered, the smiling image may be selected in the case where the text of the message is positive, and the crying image may be selected in the case where the text of the message is negative. Meanwhile, in the case where no image data is registered with the phone number of the sender, a predetermined default image may be used.

At this time, the image of the sender may be stored inside the mobile communication terminal or in a separate external storage.

It is determined whether an image of the sender exists (**S730**), and if an image exists, a screen that combines the image of the sender with the text of the short message is generated (**S740**), and output to a display, such as an liquid crystal display (LCD), of the mobile communication terminal (**S760**). On the other hand, if no image exists, a screen that combines the default image with the text of the short message is generated (**S750**), and output to the display of the mobile communication terminal (**S760**).

FIG. **8** is a flow chart illustrating a process of outputting the text of two or more short messages on one screen in the short message outputting method according to an exemplary embodiment of the present invention.

The mobile communication terminal **600** according to the exemplary embodiment performs an operation for mapping an image in the terminal to the stored phone number (**S801**). The mobile communication terminal **600** receives and interprets first and second short messages (**S805**) and (**S810**). It is determined whether the second short message was transmitted by the same sender as that of the first short message, and whether it was received within a predetermined time (relative to the time that the first short message was received) (**S815**). If "YES", the second short message is grouped with the first short message as one group (**S820**). Since the first and the second short message are grouped, the two messages may be simultaneously displayed according to a user's selection. The mobile communication terminal searches for an image of the sender using the phone number of the sender of the first short message (**S825**), and generates a first screen on which the image of the sender is combined with the text of the first short message (**S830**). Further, the mobile communication terminal searches for the image of the sender using the phone number of the sender of the second short message (**S835**), and generates a second screen on which the image of the sender is combined with the text of the second short message (**S840**). The mobile communication terminal simultaneously outputs the first and second screens as one screen (**S845**).

Meanwhile, if the user receives and interprets a short message, and transmits a response message, the received message and the response message are related in content, and thus may be output on one screen by grouping the messages into one group. For this purpose, the mobile communication terminal receives the short message (**S850**). Then, the user transmits the response message corresponding to the received short message (**S855**), and the received short message and the response message are set as one group (**S860**). The mobile communication terminal searches for the image of the sender using the phone number of the sender of the received message (**S865**), and generates a first screen on which the image of the sender is combined with the text of the received short message (**S870**). Further, the mobile communication terminal searches for the image of the sender of the response message (**S875**), and generates a second screen on which the image of the sender of the response message is combined with the text of the response message (**S880**). Additionally, the mobile communication terminal outputs the first and second screens as one screen (**S885**).

FIG. **9** is a flow chart illustrating a process of outputting a preview screen of the short message in the short message outputting method according to an exemplary embodiment of the present invention.

The mobile communication terminal performs an operation for mapping the phone number to an image stored in the terminal (S905). The mobile communication terminal extracts the phone number of the sender from the header of the short message (S910), and searches for the image of the sender using the phone number of the sender (S920). The mobile communication terminal generates a preview screen by attaching an excerpt of the short message to the thumbnail image of the sender (S930), and outputs the preview screen on the display such as the LCD of the mobile communication terminal (S940).

The mobile communication terminal and the method for outputting the short message thereof according to the present invention may produce the following effects.

First, the receiver may quickly realize information on the sender by outputting the received short message together with the image of the sender.

Second, the present invention may prevent related messages from being cut off by forming a plurality of short messages into one group, and outputting the messages on one screen.

Third, the present invention may create a visually appealing and user-friendly interface.

It should be understood by those of ordinary skill in the art that various replacements, modifications and changes in the form and details may be made therein without departing from the spirit and scope of the present invention as defined by the following claims. Therefore, it is to be appreciated that the above described exemplary embodiments are for purposes of illustration only and are not to be construed as limitations of the invention.

What is claimed is:

**[1.** A mobile communication terminal comprising:  
 a receipt unit which receives a short message based on a Short Message Service, wherein the short message is transmitted by a first sender;  
 a short message interpretation unit which extracts a phone number of the first sender of the short message from a header of the short message;  
 a mapping unit which maps the phone number and an image of the first sender;  
 a short message processing unit which generates a first screen on which the image of the first sender is combined with the received short message if the image of the first sender mapped to the phone number exists; and  
 an output unit which outputs the first screen to be displayed,  
 wherein the first screen includes a word balloon in which the short message is displayed, and  
 wherein the short message processing unit generates a second screen including an image of a second sender combined with a short message of the second sender and sets at least the first screen and the second screen in a group,  
 wherein the output unit outputs at least the first screen and the second screen at the same time, and  
 wherein the first screen includes a thumbnail image corresponding to the phone number of the first sender and an excerpt of the received short message.]

**[2.** The mobile communication terminal of claim 1, wherein the image is a picture of the first sender.]

**[3.** The mobile communication terminal of claim 1, wherein the short message processing unit analyzes a position and a direction of a face in the image of the first sender and arranges the received short message in a position so as not to cover the face.]

**[4.** The mobile communication terminal of claim 1, wherein a position of the received short message is as a specific area of the image of the first sender.]

**[5.** The mobile communication terminal of claim 1, wherein the output unit outputs a combined screen corresponding to at least two short messages set as the group.]

**[6.** The mobile communication terminal of claim 1, wherein the output unit connects a combined screen corresponding to at least two short messages set as the group and outputs the combined screen.]

**[7.** The mobile communication terminal of claim 1, wherein the short message processing unit sets a first short message and a second short message as a group if a sender of the first short message is the same as a sender of the second short message, and a time difference between a time that the first short message is received and a time that the second short message is received is less than a predetermined time.]

**[8.** The mobile communication terminal of claim 7, wherein the output unit continuously outputs a screen corresponding to the first short message and a screen corresponding to the second short message, each of which is set as the group.]

**[9.** The mobile communication terminal of claim 7, wherein the output unit connects the screen corresponding to the first short message and the screen corresponding to the second short message, each of which is set as the group, and simultaneously outputs the screens.]

**[10.** The mobile communication terminal of claim 1, wherein the short message processing unit sets a first short message and a second short message as a group if the second short message is a response message corresponding to the first short message.]

**[11.** The mobile communication terminal of claim 10, wherein the output unit continuously outputs a screen corresponding to the first short message and a screen corresponding to the second short message, each of which is set as the group.]

**[12.** The mobile communication terminal of claim 10, wherein the output unit connects the screen corresponding to the first short message and the screen corresponding to the second short message, each of which is set as the group, and simultaneously outputs the screens.]

**[13.** A method for outputting a short message on a mobile communication terminal, the method comprising:

receiving the short message based on a Short Message Service, wherein the short message is transmitted by a first sender;

mapping a phone number of the first sender of the short message and an image of the first sender;

extracting the phone number of the first sender from a header of the short message;

generating a screen on which the image of the first sender is combined with the received short message if the image of the first sender mapped to the phone number exists; and

outputting the screen to be displayed,

wherein the generating the screen comprises generating a first screen which includes the image and a word balloon in which the received short message is displayed, and

wherein the generating the screen comprises generating a second screen including an image of a second sender combined with a short message of the second sender and setting at least the first screen and the second screen in a group,

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wherein the outputting the screen comprises outputting at least the first screen and the second screen at the same time, and

wherein the first screen includes a thumbnail image corresponding to the phone number of the first sender and an excerpt of the received short message.]

[14. The method of claim 13, wherein the image of the first sender is a picture of the first sender.]

[15. The method of claim 13, wherein the generating the screen comprises analyzing a position and a direction of a face in the image of the first sender and arraying the received short message in a position so as not to cover the face.]

[16. The method of claim 13, wherein a position of the received short message is a specific area of the image of the first sender.]

[17. The method of claim 13, wherein the generating the screen comprises generating the screen by combining a thumbnail image with an excerpt of the received short message.]

[18. A method for outputting short messages on a mobile communication terminal, the method comprising:

receiving a first short message and a second short message based on a Short Message Service, wherein the first short message and the second short message are transmitted by a first sender and a second sender, respectively;

mapping a first image to a phone number of the first sender of the first short message, and a second image to a phone number of the second sender of the second short message;

extracting the phone number of the first sender from a header of the first short message;

obtaining the first image that is mapped to the phone number of the first sender;

generating a first screen on which the first image is combined with the received first short message;

extracting the phone number of the second sender from a header of the received second short message;

obtaining the second image that is mapped to the phone number of the second sender;

generating a second screen on which the second image is combined with the received second short message; and outputting the first and second screens to be displayed at the same time,

wherein the first screen includes the first image and a word balloon in which the first short message is displayed,

wherein at least the first screen and the second screen are set in a group, and

wherein the first screen includes a thumbnail image corresponding to the phone number of the first sender and an excerpt of the received short message.]

[19. The method of claim 18, wherein the outputting the first and second screens comprises connecting the first and second screens and simultaneously outputting the screens.]

[20. The method of claim 18, wherein the first sender is the same as the second sender, and a time difference between reception of the first short message and reception of the second short message is less than a predetermined time.]

[21. The method of claim 18, wherein the second short message IS a response message corresponding to the first short message.]

[22. The method of claim 18, wherein the first image is a picture of the first sender.]

[23. The method of claim 18, wherein the generating the first screen comprises analyzing a position and a direction of

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a face in the first image and arraying the first short message in a position so as not to cover the face.]

[24. The method of claim 18, wherein a position of the first short message is as a specific area of the first image.]

[25. A non-transitory recording medium configured to record a computer readable program that is executable by a computer for performing a method for outputting a short message on a mobile communication terminal, the method comprising:

receiving the short message on a Short Message Service, wherein the short message is transmitted by a first sender;

mapping a phone number of the first sender of the short message and an image of the first sender;

extracting the phone number of the first sender from a header of the short message;

generating a screen on which the image of the first sender is combined with the received short message if the image of the sender mapped to the phone number exists; and

outputting the screen to be displayed,

wherein the generating the screen comprises generating a first screen which includes the image and a word balloon in which the received short message is displayed,

wherein the generating the screen comprises generating a second screen having an image of a second sender combined with a short message of the second sender and setting at least the first screen and the second screen in a group, and the outputting the screen comprises outputting at least the first screen and the second screen at the same time, and

wherein the first screen includes a thumbnail image corresponding to the phone number of the first sender and an excerpt of the received short message.]

[26. A non-transitory recording medium configured to record a computer readable program that is executable by a computer for performing a method for outputting short messages on mobile communication terminals, the method comprising:

receiving a first short message and a second short message based on a Short Message Service, wherein the first short message and the second short message are transmitted by a first sender and a second sender, respectively;

mapping a first image to a phone number of the first sender of the first short message, and a second image to a phone number of the second sender of the second short message;

extracting the phone number of the first sender from a header of the first short message;

obtaining the first image that is mapped to the phone number of the first sender;

generating a first screen on which the first image is combined with the received first short message;

extracting the phone number of the second sender from a header of the received second short message;

obtaining the second image that is mapped to the phone number of the second sender;

generating a second screen on which the second image is combined with the received second short message; and outputting the first and second screens continuously to be displayed at the same time,

wherein the first screen includes the first image and a word balloon in which the first short message is displayed,

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wherein at least the first screen and the second screen are set in a group, and wherein the first screen includes a thumbnail image corresponding to the phone number of the first sender and an excerpt of the received short message.】

27. A mobile communication terminal comprising:  
a processor; and  
a memory configured to store instructions executable by the processor;

wherein the processor is configured to:

based on a first short message transmitted by a first sender being received by the mobile communication terminal, display the first short message and a first image related to the first sender on a screen, and

based on a second short message transmitted by a second sender being received by the mobile communication terminal, display the second short message and a second image related to the second sender on the screen while the first short message and the first image are displayed on the screen,

wherein the processor is further configured to display, on the screen, the first image and a first message display area together with the second image and a second message display area, wherein the first short message is included within the displayed first message display area, and the second short message is included within the displayed second message display area, and

wherein the processor is further configured to analyze a position and a direction of each face in the first image and the second image, and to determine a position of the first message display area and a position of the second message display area respectively based on the position and the direction of each face in the first image and the second image.

28. The mobile communication terminal of claim 27, wherein the processor is further configured to, based on a user message being input to the mobile communication terminal, display the user message on the screen while the first short message, the first image, the second short message and the second image are displayed on the screen.

29. The mobile communication terminal of claim 28, wherein the processor is further configured to display, on the screen, a user message display area in which the user message is displayed.

30. The mobile communication terminal of claim 27, further comprising a storage configured to store a plurality of images related to a plurality of senders,

wherein the plurality of images are mapped to a plurality of pieces of information corresponding to the plurality of senders in the storage, and

wherein the plurality of images include the first image and the second image, and the plurality of senders include the first sender and the second sender.

31. The mobile communication terminal of claim 30, wherein the plurality of images include a plurality of thumbnail images corresponding to the plurality of senders.

32. The mobile communication terminal of claim 30, wherein the processor is further configured to, based on the first short message being received by the mobile communication terminal, identify the first image related to the first sender from among the plurality of images, and based on the second short message being received by the mobile communication terminal, identify the second image related to the second sender from among the plurality of images.

33. The mobile communication terminal of claim 27, wherein each of the first image and the second image is a predetermined image.

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34. The mobile communication terminal of claim 27, wherein the first sender is the same as the second sender.

35. The mobile communication terminal of claim 27, wherein the first sender is different from the second sender.

36. The mobile communication terminal of claim 27, wherein the first message display area is in a first shape having a closed boundary line within which the first short message is displayed, and the second message area is in a second shape having a closed boundary line within which the second short message is displayed.

37. The mobile communication terminal of claim 27, wherein the first message display area is a first word balloon within which the first short message is displayed, and the second message display area is a second word balloon within which the second short message is displayed.

38. A method for outputting a short message on a mobile communication terminal, the method comprising:

receiving a first short message transmitted by a first sender;

based on the first short message being received, displaying the first short message and a first image related to the first sender on a screen,

receiving a second short message transmitted by a second sender, and

based on the second short message being received, displaying the second short message and a second image related to the second sender on the screen while the first short message and the first image are displayed on the screen,

wherein the displaying the first short message and the first image comprises displaying, on the screen, the first image and a first message display area in which the first short message is displayed,

wherein the displaying the second short message and the second image comprises displaying, on the screen, the second image and a second message display area in which the second short message is displayed,

wherein the first image and the first message display area together with the second image and the second message display area are displayed on the screen, and the first short message is included within the displayed first message display area, and the second short message is included within the displayed second message display area,

wherein the displaying the first image and the first message display area comprises analyzing a position and a direction of face in the first image, and determining a position of the first message display area based on the position and the direction of face in the first image, and wherein the displaying the second image and the second message display area comprises analyzing a position and a direction of face in the second image, and determining a position of the second message display area based on the position and the direction of face in the second image.

39. The method of claim 38, further comprising, based on a user message being input to the mobile communication terminal, displaying the user message on the screen while the first short message, the first image, the second short message and the second image are displayed on the screen.

40. The method of claim 39, wherein the displaying the user message comprises displaying, on the screen, a user message display area in which the user message is displayed.

41. The method of claim 38, where a plurality of images related to a plurality of senders are stored in a storage,

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wherein the plurality of images are mapped to a plurality of pieces of information corresponding to the plurality of senders in the storage, and

wherein the plurality of images include the first image and the second image, and the plurality of senders include the first sender and the second sender.

42. The method of claim 41, wherein the plurality of images include a plurality of thumbnail images corresponding to the plurality of senders.

43. The method of claim 41, further comprising, based on the first short message being received, identifying the first image related to the first sender from among the plurality of images and, based on the second short message being received, identifying the second image related to the second sender from among the plurality of images.

44. The method of claim 38, wherein each of the first image and the second image is a predetermined image.

45. The method of claim 38, wherein the first sender is the same as the second sender.

46. The method of claim 38, wherein the first sender is different from the second sender.

47. The method of claim 38, wherein the first message area is in a first shape having a closed boundary line within which the first short message is displayed, and the second message area is in a second shape having a closed boundary line within which the second short message is displayed.

48. The method of claim 38, wherein the first message display area is a first word balloon within which the first short message is displayed, and the second message display area is a second word balloon within which the second short message is displayed.

49. A non-transitory recording medium storing a computer readable program that is executable by a computer for performing a method for outputting a short message on a mobile communication terminal, the method comprising:

receiving a first short message transmitted by a first sender;

based on the first short message being received, displaying the first short message and a first image related to the first sender on a screen;

receiving a second short message transmitted by a second sender; and

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based on the second short message being received, displaying the second short message and a second image related to the second sender on the screen while the first short message and the first image are displayed on the screen,

wherein the displaying the first short message and the first image comprises displaying, on the screen, the first image and a first message display area in which the first short message is displayed,

wherein the displaying the second short message and the second image comprises displaying, on the screen, the second image and a second message display area in which the second short message is displayed,

wherein the first image and the first message display area together with the second image and the second message display area are displayed on the screen, and the first short message is included within the displayed first message display area, and the second short message is included within the displayed second message display area,

wherein the displaying the first image and the first message display area comprises analyzing a position and a direction of face in the first image, and determining a position of the first message display area based on the position and the direction of face in the first image, and wherein the displaying the second image and the second message display area comprises analyzing a position and a direction of face in the second image, and determining a position of the second message display area based on the position and the direction of face in the second image.

50. The non-transitory recording medium of claim 49, wherein the first message display area is in a first shape having a closed boundary line within which the first short message is displayed, and the second message area is in a second shape having a closed boundary line within which the second short message is displayed.

51. The non-transitory recording medium of claim 49, wherein the first message display area is a first word balloon within which the first short message is displayed, and the second message display area is a second word balloon within which the second short message is displayed.

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