Title: METHOD AND APPARATUS FOR OPERATING MESSAGE FUNCTION IN CONNECTION WITH NOTE FUNCTION

Abstract: Disclosed herein are a method and an apparatus for viewing messages. A message is displayed and a note addition event is detected to add note data to the message. Input note data is associated with the message. An editable note area is displayed in conjunction with the message.
Description

Title of Invention: METHOD AND APPARATUS FOR OPERATING MESSAGE FUNCTION IN CONNECTION WITH NOTE FUNCTION

Technical Field

[1] The present disclosure relates to a method and apparatus for operating a message function in connection with a note function and, more particularly, to a method and apparatus for operating a message function in connection with an editable note function.

Background Art

[2] Portable terminals, such as a mobile telephones, have been used in various fields due to their convenience and portability. Such portable terminals have provided various input types to support user functions. For example, some portable terminals are equipped with a touch screen having a touch panel and a display panel. This may allow a user to select a specific image displayed on the display panel by processing touch input with the touch panel. In addition, a portable terminal may provide various functions such as a call function, an audio play function, a text message function, a digital broadcast reception function, a short distance wireless communication function, an Internet access function, and the like. Recently, portable terminals have allowed users to multi-task by allowing a plurality of functions to execute in parallel.

[3] Portable terminals provide a message application function capable of enabling a user to transmit and receive a text. However, as shown in FIG. 1, although the transmitted or received message may be stored in a database, the portable terminal may not allow a user to arbitrarily edit the transmitted or received message.

[4] Users may attempt to edit a transmitted or received text using a note function such that a given message is cut and pasted onto a note execution screen. As shown in FIG. 2, the user may edit the copied message displayed on the note screen. However, copying the message onto a note execution screen may generate duplicate data unnecessarily. In addition, it is inconvenient that a user cannot immediately edit a message without having to manually cut and paste the text message onto a note application screen. In addition, it is inconvenient that the user has to manually associate the message with the note data.

Disclosure of Invention

Technical Problem

[5] In view of the forgoing, disclosed herein are a method and apparatus for operating a
text message in conjunction with a note. The method and apparatus disclosed herein are capable of storing and managing the text by associating it with user editable note data.

[6] The present disclosure further provides a method and apparatus for operating a text message function in conjunction with a note function such that the note data may be displayed together with an associated text message on a message reception screen.

**Solution to Problem**

[7] In accordance with an aspect of the present disclosure, a method of operating a message function may include: displaying a message; detecting a note addition event to add note data to the message; displaying an editable note area, in response to the note addition event, in conjunction with the message; detecting note data being input into the note area; and associating the note data with the message.

[8] In accordance with another aspect of the present disclosure, an apparatus for operating a message function may include: a processor to: display a message on a display unit; detect a note addition event, through an input unit, to add note data to the message; display on the display unit an editable note area, in response to the note addition event, in conjunction with the message; detect, using the input unit, note data being input into the note area; and associate the note data with the message.

**Advantageous Effects of Invention**

[9] The present disclosure in addition, the present disclosure provides a method and apparatus for operating a text message in connection with a note function that allow the note associated with the message to be included in a query, when searching for the message. Moreover, the apparatus and method disclosed herein are capable of keeping the note separate from the text message to facilitate editing of the note and the text.

**Brief Description of Drawings**

[10] The objects, features and advantages of the present disclosure will be more apparent from the following detailed description in conjunction with the accompanying drawings, in which:

[11] FIGS. 1 and 2 are views illustrating conventional messaging functions;

[12] FIG. 3 is a block diagram illustrating an example electronic apparatus in accordance with aspects of the present disclosure;

[13] FIG. 4 is a flowchart illustrating an example method of adding note data to a message and storing the note data, in accordance with aspects of the present disclosure;

[14] FIGS. 5 to 7 are flowcharts illustrating an example method of managing note data associated with a message, in accordance with aspects of the present disclosure; and

[15] FIGS. 8 to 11 are diagrams illustrating an example method for displaying an execution screen in accordance with aspects of the present disclosure.
Mode for the Invention

Examples of the present disclosure are described with reference to the accompanying drawings in detail. The same reference numbers are used throughout the drawings to refer to the same or like parts. Detailed descriptions of well-known functions and structures incorporated herein may be omitted to avoid obscuring the subject matter of the present disclosure.

Before describing examples in detail, an example electronic apparatus may include a mobile communication terminal, a Personal Digital Assistant (PDA) a smart phone, a tablet Personal Computer (PC), a Portable Multimedia Player (PMP), an electric book terminal, a Notebook computer, a Netbook computer, or the like.

FIG. 3 is a block diagram illustrating an example electronic apparatus in accordance with aspects of the present disclosure. An example electronic apparatus may include an audio processor 160, a wireless communication unit 150, an input unit 140, a touch screen 130, a storage unit 120 and a controller 110. The touch screen 130 may include a display panel 131 and a touch panel 132.

The electronic apparatus 100 may support a note function associated with a message. A note is application for memo. The note is also represented by memo. For example, when the electronic apparatus 100 detects an occurrence of an event for adding a note while performing a text message function, the electronic apparatus 100 may re-configure a displayed text message so as to add a note area. The note data input into the set note area may be stored and associated with the corresponding text message, so that the text may be flexibly utilized with editable note data, while the text message is maintained.

The text message, may comprise one of a Multi Message Service (MMS) message, a Short Message Service (SMS) message, a Long Message Service (LMS) message, a multi-mail, or may be any message that is generally un-editable after the message is transmitted or received.

The above described editable note may be amended, deleted, copied, pasted, or added to. The editable notes may be displayed in a list view format. In addition, the note data may include characters, images, sounds, or representative icons.

When the electronic apparatus 100 receives a display signal for displaying the message previously stored and associated with the note data, the electronic apparatus 100 may output the corresponding message and the note data associated with the message in response. Thus, a user may rapidly and conveniently look up the note data associated with the message without separately loading or activating a note application.

In addition, when the electronic apparatus 100 receives a search signal, such as a query with at least one search word, for searching previously stored messages,
electronic apparatus 100 may search for the message and the note data associated with the message. In addition, at least one of the searched message or its associated note data may be output together with the connected note data or message. Thus, a more exact and convenient search function may be provided.

[24] When the electronic apparatus 100 receives an edit signal for editing note data or for editing a previously stored message associated with the note data, the electronic apparatus 100 may separate the note data from its associated message and may permit the separated note data to be edited. Such separation between note data and its associated message may be configured by a user with predefined settings. Thus, the note data separated from the message may be amended, deleted, copied, pasted, etc. In addition, the edited note data associated with the message may be restored.

[25] Hereinafter, each element of an example electronic apparatus 100 that may implement the note function described above will be described in more detail.

[26] The wireless communication unit 150 may form a communication channel to communicate (including a voice call and a video call) with a base station and a data communication channel to transmit data. To this end, the wireless communication unit 150 may include a wireless frequency transmitting unit (not shown) to up-convert the frequency of a transmitted signal and amplify the signal, a wireless frequency receiving unit (not shown) to low-noise amplify a received signal and down-convert the frequency of the signal, and a transmission and reception separating unit (not shown) to separate a received signal from a transmitted signal.

[27] The audio processor 160 may include a speaker SPK to output audio data transmitted and received during a call, audio data included in a received message and audio data due to a play of an audio file stored in the storage unit 120, and a microphone MIC to collect a user voice during a call or other audio signal.

[28] The input unit 140 may include an input key and functional keys to receive numerical or various character information, set various functions and control a function of the portable terminal 100. Specifically, the input unit 140 may transmit an input signal of requesting to add the note data to the message, an input signal of requesting to display the stored message, an input signal of requesting to search the stored message, an input signal of requesting to output a message list, and an input signal of requesting to edit the note data.

[29] The input unit 140 may include one of a button type key pad, a ball joystick, an optical joystick, a wheel key, a touch key, a touch panel and a touch screen 130, or a combination of them.

[30] The touch screen 130 may perform the input function and the display function. To this end, the touch screen 130 may include a display panel 131 and a touch panel 132.

[31] The display panel 131 displays various kinds of menus of the electronic apparatus
100, information input by a user, or information provided to the user. That is, the display panel 131 may display various screens in accordance with use of the electronic apparatus 100, such as an idle screen (home screen), a menu screen, a message writing screen, a message receiving screen, a previously stored message output screen, a note writing screen, a note editing screen, a call screen, a schedule management screen, an address list screen, and a web page output screen, or the like.

[32] Specifically, the display panel 131 may output a menu or an icon to add the note data associated with a message and to activate an editing function in a certain area. The icon may be replaced with a specific side key. In addition, the display panel 131 may display an additional note writing screen, and a written note output screen. The additional note writing screen may include a tool to write a note. The tool may include tools to input a text, a diagram, a line, a sign and an emoticon, and the like.

[33] The note function execution screen may be displayed together with a message display screen. For example, a first area to display a message and a second area for adding the note data may be included in the entire display screen of the electronic apparatus. The second area may be placed in at least one of an upper side, a lower side, a right side or a left side of the message, or may be an area overlaid with the message display screen.

[34] The display panel 131 may be implemented with a Liquid Crystal Display (LDC), an Organic Light Emitted Diode (OLED), or an Active Matrix Organic Light Emitted Diode (AMOLED).

[35] The touch panel 132 may be mounted on the front surface of the display panel 131. When a touch input means such as a user's finger or a stylus is touched to the touch panel 132, a touch event may be generated and the generated touch event may be transferred to controller 110. For example, the touch panel 132 may sense a touch based on the variation of a physical quantity such as an electrostatic capacity or a resistance in accordance with the touch by the touch input means and may transfer the touch location information to controller 110. The touch panel 132 may include a first touch panel to recognize a general touch such as a user gesture and a second touch panel to recognize a precise input such as a note input.

[36] The storage unit 120 may store an OS (Operating System) of the electronic apparatus 100, an application program necessary for other optional functions such as a sound play function, an image or moving screen photographing function, an Internet access function, and a digital broadcasting program playing function, a user data, and a data transmitted and received during communication. For example, the storage unit 120 may store a video file, a game file, a music file, and a movie file.

[37] Storage unit 120 may store the additional note data input in the message display screen associated with the message. Storage unit 120 may also store edits to the note
data; may allow note data associated with the message to be searched; and may store the program used to display the note data associated with a previously stored message. Hereinafter, such a program will be described later in detail with reference to accompanying drawings.

[38] In addition, the storage unit 120 may include a connection program to store a received/transmitted message and associate it with an index point of the added note data. When a specific message is selected (e.g., touched) in the message output note screen, the connection program may obtain its associated note data and output the additional note data to the screen.

[39] Controller 110 may control the overall operations of the electronic apparatus 100 and the signal flow between the inner blocks of the electronic apparatus 100, and may perform a data processing function processing data. For example, controller 110 may be a Central Processing Unit (CPU), a Micro Processor Unit (MPU), and an application processor.

[40] Specifically, controller 110 may control the operation of the note function connected to the message.

[41] That is, controller 110 may control a procedure of generating the additional note data associated with the message, editing the generated additional note data and storing the edited note data. In this case, controller 110 may control the procedure of generating an object in accordance with the preset rule. In addition, controller 110 may control the procedures of outputting the stored message; outputting the additional note data associated with the message; searching for the additional note data and the message; keeping the message separate from its associated note data to facilitate display or editing; and to restore the message or its associated note data.

[42] Although not shown in FIG. 3, the electronic apparatus 100 may selectively further include elements having additional functions such as a Global Positioning System (GPS) module to receive location information, a broadcasting receiving module to receive a broadcasting, a digital sound play module such as an MP3 module, and a short distance wireless communication module to perform a short distance wireless communication function. Such components may be variously modified in accordance with the trend of digital convergence, and thus not all such components may be listed here, but the electronic apparatus 100 may further include components of the same level as that of the above-mentioned components.

[43] FIG. 4 is a flowchart illustrating an example method of adding note data to a message and storing the note data associated with the message. Referring to FIG. 4, controller 110 may display a transmitted/received message on the display unit, when a message application is executed and a request for displaying the transmitted/received message is detected, at operation 410.
When a note addition event is generated, controller 110 may detect the note addition event through the touch panel at operation 420. The note addition event may be generated by a preset gesture, a button input, and an icon execution, when the message is displayed. The button and the icon may be set as default so that the button and the icon may be displayed in the message display screen. The note addition event may be input by a touch input, such as a finger touch, a pen touch or a touch action, or by a specific button. If no note addition event is detected at operation 420, the function corresponding to the detected event may be performed at operation 425.

Then, in response to the note addition event, controller 110 may reconfigure the displayed message and may display a note area for the note data to be added, at operation 430. That is, when the note addition event is generated and the message is displayed, the message display screen may be reconfigured to record the note data, such that the note area is added into the message display screen. The note area may be automatically set in a preset area which is a part of the message display screen, or may be set in accordance with the location of the touch input generated by a user. The note area may be set at an upper side, a lower side, a left side or a right side of the displayed message, or may be set as an area overlaying the displayed message.

Controller 110 may receive the note data input into the displayed note area and may display the note data on the display unit at operation 440. In this case, the note data may be input using the pen touch pen, the finger touch input and/or the keypad input. The note data added to the message may include a character, an image, or a sound. The note data may further include a cursive character, a non-character pattern (a figure, a diagram, a line, an icon, and the like) and multimedia data. The note data may be further associated with a function of another application or linked to a specific URL address.

When the operation is terminated after the note data is input, controller 110 may sense it through the touch panel 132 and may store the input note data by associating it with the message in storage unit 120, at operation 450. In this case, controller 110 may combine and store the received/transmitted message (hereinafter, referred to as "Original Message") with the note data. In addition, as shown in the example of FIG. 9, controller 110 may store the note data associated with an ID of the original message such that the original message and the note data associated with the original message may be stored in different storage spaces. In this example, when the previously stored message is displayed later, the note data having a note ID associated with the ID of the message may be displayed together with the message.

When the display signal stops at operation 460, the process may end; otherwise, controller 110 may loop back to operation 410.

FIGS. 5 to 7 are flowcharts illustrating an example of managing note data associated
with a message in an electronic apparatus. FIGS. 8 to 11 are working examples of an
execution screen for managing note data associated with a message.

Referring to FIG. 5, when controller 110 receives a display signal requesting display
of the previously stored message at operation 510, controller 110 may identify whether
the note data associated with the message exists, at operation 520. If the note data as-
associated with the message does not exist, a corresponding function to be performed as
a result may be performed at operation 525.

When the note data associated with the message exists, controller 110 may extract
the note data at operation 530. In this example, the note data may be extracted from the
data base in which the note data is stored together with the message. In addition, as
shown in FIG. 9, when the note data associated with the message are stored in different
databases, controller 110 may trace the ID of the note data associated with the ID of
the message such that the note data may be extracted by using the traced ID.

At operation 540, controller 110 may output the extracted note data together with the
message data to display the extracted note data and message on the touch screen 130.
For example, the note data may be displayed in the area adjacent to the area in which
the message is displayed. When the note data is video data or voice data, the note data
may be displayed by a sign (e.g., an icon) denoting such data. In addition, controller
110 may provide an option menu to select the message associated with the note data or
a message without associated note data, and may display only the type of message
selected through the option menu in a list. When a plurality of note data are added to
one message, the plurality of note data may be displayed in a list and ordered by
generation time, size, and the like. The order may alternatively be set by a manu-
ufacturer or designer. Thus, the user of the electronic apparatus may immediately check
the note associated with the message using the message itself.

If the display signal does not end at operation 550, controller 110 may loop back to
operation 510. Otherwise, the process may end.

Referring to FIG. 6, controller 110 may receive an edit signal requesting to edit the
note data previously stored and associated with the message at operation 610.

As described above, when the note data edit signal is received, controller 110 may
determine whether to separate the note data from the message at operation 620. For
example, when the edit signal is received in accordance with a request or setting of a
designer or a user, controller 110 may identify whether to display the note data and its
associated note data separately.

When it is identified that the note data and its associated message are to be displayed
separately, at operation 620, controller 110 may separate the note data from the
message and display the separated note data. For example, when sensing a long touch
event on the note data for a preset time period, controller 110 may hide the message
display screen by superimposing the note data display over the message display. When it is identified that the note data and its associated message are not to be displayed separately, the function corresponding to the detected event may be performed at operation 625.

Controller 110 may edit the note data in accordance with the edit signal at operation 630. The edit signal may be at least one of amending, deleting, copying, pasting, and the like. For example, referring now to FIG. 11, controller 110 may display just the note data in accordance with the note data management request of the user and may display a screen that allows a user to delete note data.

When editing the note data is complete, controller 110 may store the edited note data in storage unit 120 and associate it with the corresponding message at operation 640. When the signal input ends at operation 650, controller 110 may end the process; otherwise, controller 110 may loop back to operation 610.

Referring to FIG. 7, controller 110 may receive a search signal requesting to search for a previously stored message at operation 710. For example, the search signal may be a query with a search word with at least one of a character, a numeral, or a sign. Controller 110 may search both note data associated with each message and the messages themselves based on the search word at operation 720. As a result of the search, controller 110 may output the searched message together with the note data at operation 730. That is, when a specific message is found in accordance with the search result, controller 110 may output the found message together with the note data associated therewith. Furthermore, when note data is found in accordance with the search result, the found note data may be output together with the message associated therewith. If the receive search signal stops at operation 740, controller 110 may end the process; otherwise, controller 110 may loop back to operation 710.

Alternatively, as shown in FIG. 10, when controller 110 receives the signal to search the note data and messages associated therewith, controller 110 may separate the note data from the message to display only the note data and may display a search execution screen for searching the note data.

FIG. 8 is a diagram illustrating a working example of adding a note to a text message and associating the note with the text. For example, a user may receive a message of "Let us meet again at the place where we had previously met soon" from his friend. Although the user may remember the place, the user may forget the date of the meeting. In this case, the user may generate a note data addition event to add note data in the screen in which the message is received, so that a new note area may be displayed. The user may directly input information related to the place where the user had previously met with the friend to the displayed new note area, and may store this note together with the message.
A similar working example is shown in FIG. 9. When using a card, the user may receive information related to internet card payment through a text message. In this case, the user may mostly receive brief information such as the name of a payment gateway company, a purchase amount, and a purchase date. In this instance, the user may add a note to the message related to the internet card payment. Thus, the note may contain information related to the purchasing place and the purchasing product. Such note be stored and associated with the message. The user may use these notes to recall additional information related to a plurality of internet card payments.

Advantageously, the note data associated with the message may be stored with the message so that the user may check the note data together with the message at a later time. This allows additional information not in the original message to be obtained.

As described above, the method of operating a message function associated with a note function may be implemented in a program command form executable by various computer means and be recorded in a computer readable recording medium. In this case, the computer readable recording medium may include a program command, a data file, and a data structure individually or a combination thereof. In the meantime, the program command recorded in a recording medium may be specially designed or configured for the present disclosure or be known to a person having ordinary skill in a computer software field to be used. The computer readable recording medium includes Magnetic Media such as hard disk, floppy disk, or magnetic tape, Optical Media such as Compact Disc Read Only Memory (CD-ROM) or Digital Versatile Disc (DVD), Magneto-Optical Media such as floptical disk, and a hardware device such as ROM, RAM, or flash memory for storing and executing program commands. Further, the program command includes a machine language code created by a compiler and a high-level language code executable by a computer using an interpreter. The foregoing hardware device may be configured to be operated in accordance with at least one software module to perform an operation of the present disclosure.

As described above, in one example, the received message may be stored and associated with user editable note data.

In another example, the note data associated with a message may be displayed in a message display screen together with the message.

In a further example, when searching a message, the note data associated with the message may also be queried, and the searched message or note data may be displayed together with the message or note data.

In yet another example, the note data may be displayed separately from its associated message to facilitate editing.

Although examples of the present disclosure have been described in detail above, it is understood that many variations and modifications may be made to the examples.
without departing from the spirit and scope of the disclosure as defined by the appended claims and equivalents thereof.
Claims

[Claim 1] A method of operating a message function in connection with a note function, the method comprising:
displaying a message;
detecting a note addition event to add note data to the message;
displaying an editable note area, in response to the note addition event, in conjunction with the message;
detecting note data being input into the note area; and
associating the note data with the message.

[Claim 2] The method of claim 1, wherein detecting the note addition event comprises detecting an input on a touch panel.

[Claim 3] The method of claim 1, wherein displaying the editable note area comprises setting a predefined area of a message display screen as the note area or setting the note area in accordance with touch input detected at a location of the display screen.

[Claim 4] The method of claim 1, wherein displaying the editable note area comprises setting the note area in a message display area such that the editable note area is editable through one of an amendment, a deletion, a copy, a movement, an addition, a pasting, and a list view of the note data.

[Claim 5] The method of claim 1, wherein displaying the editable note area comprises setting the note area in an empty area at an upper side, a lower side, a left side or a right side of the displayed message or setting an area overlaid with the displayed message as the note area.

[Claim 6] The method of claim 1, further comprising displaying the note data detected as input as at least one of a character type, an image type or a sound type.

[Claim 7] The method of claim 1, wherein detecting the note data input to the note area comprises displaying at least one of an icon to execute the note data or a link to execute a specific URL address as the note data.

[Claim 8] The method of claim 1, wherein associating the detected note data with the message comprises storing the message with the detected note data in one database or associating an ID of the message and an ID of the note data while the message and the note data are stored in different databases.

[Claim 9] The method of claim 1, further comprising:
receiving a display signal requesting to display the message;
determining whether note data is associated with the message;
extracting the associated note data; and
displaying the associated note data with the message.

[Claim 10] The method of claim 1, further comprising:
receiving a signal requesting an edit of the note data;
editing the note data in accordance with an editing signal; and
associating edited note data with the message.

[Claim 11] The method of claim 1, detecting edits to the note data such that the
edits comprise amending, deleting, copying content of the note data, or
pasting copied data.

[Claim 12] The method of claim 1, further comprising:
identifying a predefined setting to separate the note data from the
message; and
displaying a note data display screen to display the note data on an
upper layer and a message display screen on a lower layer, when the
predefined setting is identified.

[Claim 13] An apparatus for operating a message function in connection with a
note function, the apparatus comprising:
a processor to:
display a message on a display unit;
detect a note addition event, through an input unit, to add note data to
the message;
display on the display unit an editable note area, in response to the note
addition event, in conjunction with the message;
detect, using the input unit, note data being input into the note area; and
associate the note data with the message.

[Claim 14] The apparatus of claim 13, wherein the processor to further detect input
indicating the note addition event through a touch panel.

[Claim 15] The apparatus of claim 13, wherein the processor to further set a
predefined area of a message display screen as the note area or set the
note area in accordance with touch input detected at a location of the
message display screen.
[Fig. 1]

MESSAGE DB

MESSAGE Table

<table>
<thead>
<tr>
<th>ID</th>
<th>Text</th>
<th>Sender</th>
</tr>
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<tbody>
<tr>
<td>33</td>
<td>SAMSUNG CARD APPROVAL 10/30 09:50 38,600WON KG INICIS CO. LTD.</td>
<td>SAMSUNG CARD</td>
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<tr>
<td>34</td>
<td>LET'S MEET AT THE CAFE WHERE WE HAD PREVIOUSLY MET AT 20'CLOCK NEXT WEEK WEDNESDAY</td>
<td>KIM, JIN-WOOK</td>
</tr>
</tbody>
</table>

TABLE: USER UNEDITABLE TABLE
[Fig. 7]

START

RECEIVE SEARCH SIGNAL

SEARCH ALL BASED ON MESSAGE AND NOTE DATA

OUTPUT SEARCHED MESSAGE TOGETHER WITH NOTE DATA

NO

INPUT END SIGNAL?

YES

END

[Fig. 8]

1) MESSAGE RECEPTION

LET'S MEET AT THE CAFE WHERE WE HAD PREVIOUSLY MET AT 20:00 CLOCK NEXT WEEK WEDNESDAY

3) DISPLAY MESSAGE TOGETHER WITH NOTE IN MESSAGE RECEPTION SCREEN

2) USER EDIT NOTE - STORE

KIM, JIN-WOOK 010-1234-5678

DO YOU REMEMBER OUR MEETING SCHEDULE?

LET'S MEET AT THE CAFE WHERE WE HAD PREVIOUSLY MET AT 20:00 CLOCK NEXT WEEK WEDNESDAY

LOOK-IN CAFE STREET, AT TWO O'CLOCK NOVEMBER 14, I'M HOME!

WEDNESDAY IS 14TH - CAFE WHERE WE HAD PREVIOUSLY MET NAME IS "I'M HOME"
[Fig. 10]

NOTE VIEW

SEARCH

JooK-IeON CAFe STREET, AT TWO O'CLoCK NOVEMBER 14, I'M HOME!

PURCHASE SOAP AND COSMETIC ON INTERNET

DEPARTMENT SALE FROM 17THIII, YAY~!

I WILL VISIT EVERLAND PARK WITH FRIEND AT THE WEEKEND

[Fig. 11]

NOTE DELETION CANCEL DELETION

✓ JooK-IeON CAFe STREET, AT TWO O'CLoCK NOVEMBER 14, I'M HOME!

✓ PURCHASE SOAP AND COSMETIC ON INTERNET

✓ DEPARTMENT SALE FROM 17THIII, YAY~!

✓ I WILL VISIT EVERLAND PARK WITH FRIEND AT THE WEEKEND
A. CLASSIFICATION OF SUBJECT MATTER
H04B 1/40(2006.01)i, G06F 3/01(2006.01)i, G06F 3/14(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H04B 1/40; H04W 4/06; G06F 3/048; H04N 5/44; G06F 9/46; H04N 5/445; G06F 3/01; G06F 3/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic database consulted during the international search (name of database and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: message, note, edit, conjunction, display

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>X</td>
<td>KR 10-2012-0026395 A (LG ELECTRONICS INC.) 19 March 2012</td>
<td>1-15</td>
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<td></td>
<td>See paragraphs [009H0010], [0034], [0097H0127], [0137]; and figures 3a-3c, 5-7.</td>
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<td></td>
<td>See paragraphs [0168]- [0185]; and figures 18-25.</td>
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<td>See paragraphs [0120H0121], [0134]-[0136]; and figures 6, 8.</td>
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<td>See paragraphs [0099], [0156], [0253]-[0254]; and figure 7B.</td>
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<td>See paragraphs [0051]- [0059]; and figures 6-11.</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

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24 October 2014 (24.10.2014)

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