

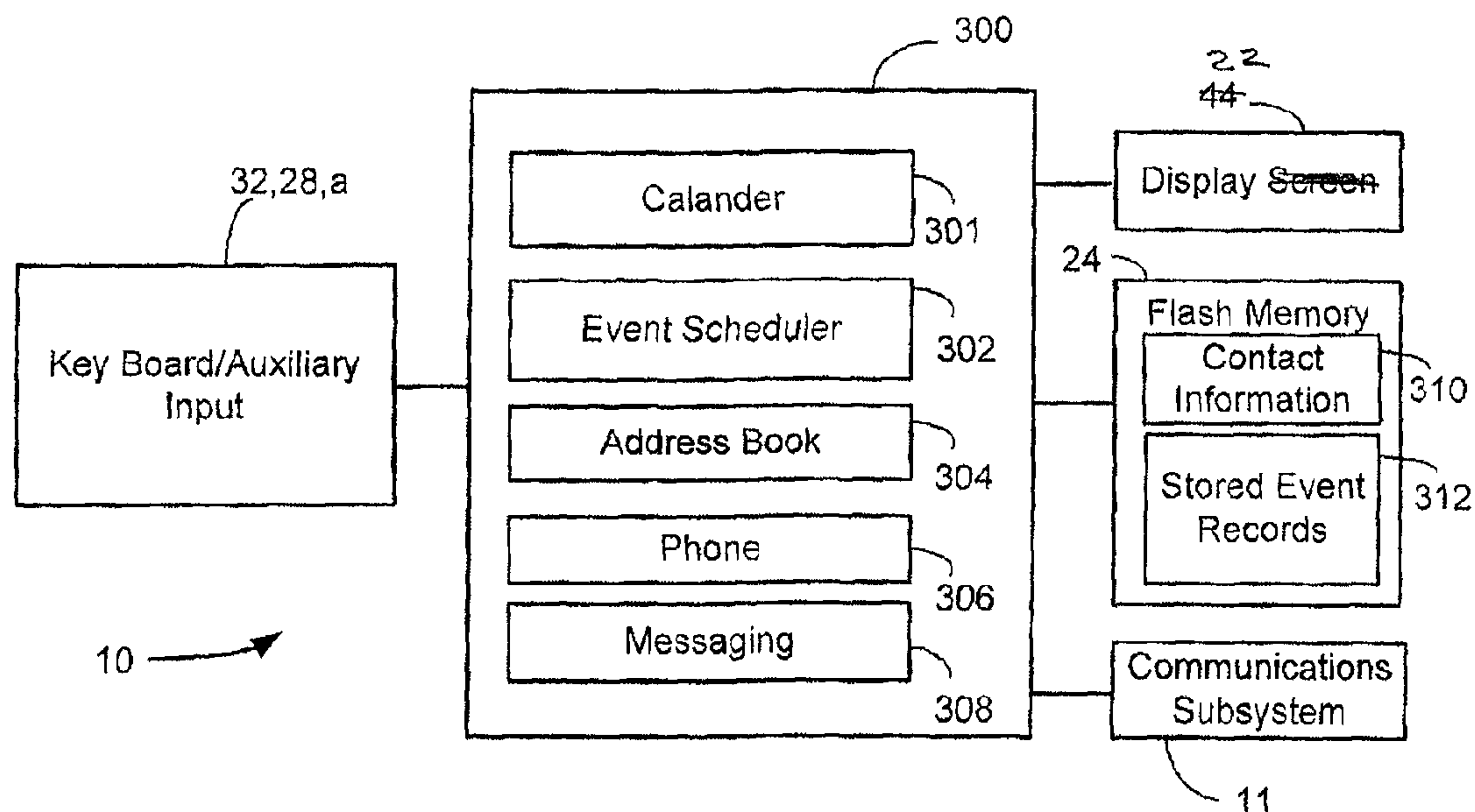


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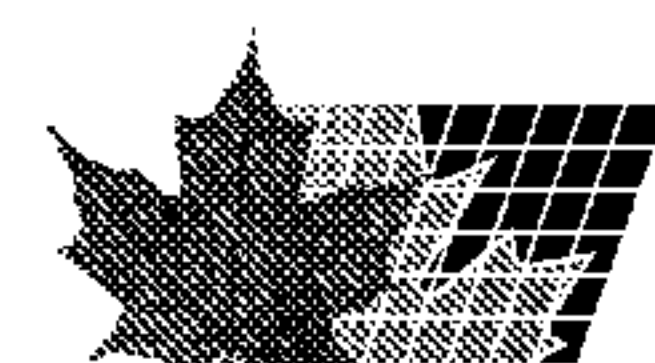
(54) **Titre : PROGRAMMATION D'EVENEMENTS A PARTIR DE MESSAGES ELECTRONIQUES**

(54) **Title: SCHEDULING EVENTS FROM ELECTRONIC MESSAGES**



(57) **Abrégé/Abstract:**

Scheduling an event on an electronic communications device configured for sending and receiving electronic messages over a communications network, comprising extracting information from an electronic message at the communications device; displaying on a display of the communications device an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and automatically populating at least one of the input fields in dependence on the extracted information.



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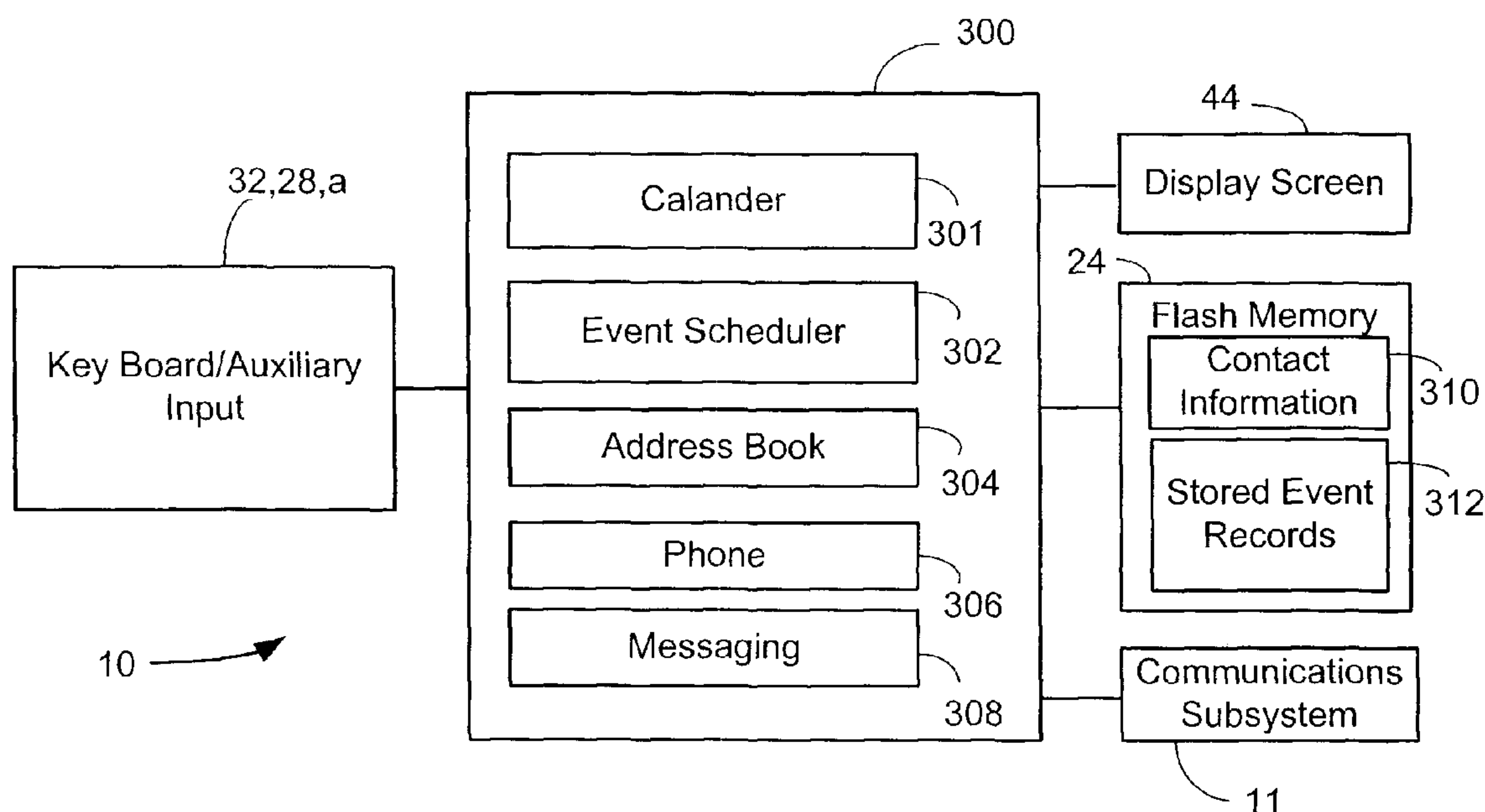
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(54) Title: SCHEDULING EVENTS FROM ELECTRONIC MESSAGES



(57) Abstract: Scheduling an event on an electronic communications device configured for sending and receiving electronic messages over a communications network, comprising extracting information from an electronic message at the communications device; displaying on a display of the communications device an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and automatically populating at least one of the input fields in dependence on the extracted information.

WO 2007/033465 A1

SCHEDULING EVENTS FROM ELECTRONIC MESSAGES

FIELD

5 [0001] Example embodiments described herein relate to communications devices and, in particular, to methods and systems for scheduling events on such devices.

BACKGROUND

10 [0002] Communications devices, in particular handheld mobile communications devices, are becoming increasingly sophisticated. A common feature of such communications devices is a system or application for scheduling events and setting reminders, i.e. a built-in calendar or events scheduler.

15 [0003] In a message, or during a message thread (such as an email thread) it is often decided that an event, such as a meeting or an appointment should be set up to, for example, discuss the matter at hand in more detail. Typically no one wants to set up the event, for example by creating a meeting request, because it is difficult and inconvenient to do so (especially on their handheld mobile communications device).

20 [0004] Creating an event such as a meeting involves entering all of the recipients of the message or message thread as attendees, entering the subject and notes, such as the content of the message or details about the meeting. In order to enter this information, a user will often have to switch back and forth between the email application and the calendar application. This can be particularly difficult when entering multiple attendees/recipients, as only one attendee can be selected at a time. The whole process can be very tedious, 25 time-consuming and can lead to errors in the list of attendees, subject and notes. Moreover, because of the awkwardness of the process, a user may avoid setting up a meeting until they get back to their desktop computer. In the meantime, unnecessary delays are created in dealing with the matter at hand. The user may even forget to set up the event entirely.

30

SUMMARY

[0005] At least one example embodiment comprises a method for scheduling an event on an electronic communications device configured for sending and

receiving electronic messages over a communications network. The method comprises extracting information from an electronic message at the communications device; displaying on a display of the communications device an event scheduling interface for scheduling an event, the event scheduling
 5 interface having a plurality of input fields for receiving information about the event; and automatically populating at least one of the input fields in dependence on the extracted information.

[0006] At least one example embodiment comprises a communications device enabled to communicate over a communications network with other devices.

10 The device comprises a display; a user input device; a messaging module for exchanging electronic messages with other devices; a storage storing electronic messages sent or received by the device; and a scheduling module configured for displaying on the display an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for
 15 receiving information about the event, the scheduling module being configured for automatically populating at least one of the input fields in dependence on information extracted from a selected electronic message stored in the storage.

[0007] At least one example embodiment comprises a computer program product comprising a computer readable medium carrying computer executable
 20 instructions for scheduling an event on an electronic communications device configured for sending and receiving electronic messages over a communications network, the instructions comprising instructions for: extracting information from an electronic message at the communications device;
 displaying on a display of the communications device an event scheduling
 25 interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and automatically populating at least one of the input fields in dependence on the extracted information.

30

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] Example embodiments will now be described by way of example with reference to the accompanying drawings, through which like reference numerals are used to indicate similar features.

5 [0009] Figure 1 shows a block diagram of an example of a mobile communications device to which example embodiments of an event scheduler can be applied;

[0010] Figure 2 shows, in diagrammatic form, a front view of an example of the device of Figure 1;

10 [0011] Figure 3 shows a further operational block diagram representation of the mobile communications device of Figure 1;

[0012] Figure 4A shows a diagrammatic view of an electronic mail message graphical user interface screen;

[0013] Figure 4B shows a diagrammatic view of an electronic mail message graphical user interface screen with an additional menu for scheduling an event;

15 [0014] Figure 5A shows a diagrammatic view of a user interface screen for creating a new event generated on a display of communications device in an example embodiment;

20 [0015] Figure 5B shows a diagrammatic view of a new event entry screen with an additional menu for editing attendees generated on the communications device in an example embodiment;

[0016] Figure 6 shows a diagrammatic view of a user interface screen for scheduling generated on the communications device in an example embodiment;

25 [0017] Figure 7 shows a diagrammatic view of a meeting request screen generated on the communications device in an example embodiment; and

[0018] Figure 8 shows a diagrammatic view of a reminder screen generated on the communications device in an example embodiment.

DETAILED DESCRIPTION

30 [0019] The following description of one or more specific embodiments does not limit the implementation of the invention to any particular computer programming language, operating system, system architecture or device architecture. Moreover, although some embodiments may include mobile

devices, not all embodiments are limited to mobile devices; rather, various embodiments may be implemented within a variety of communications devices or terminals, including handheld devices, mobile telephones, personal digital assistants (PDAs), personal computers, audio-visual terminals, televisions, and
5 other devices.

[0020] Referring now to the drawings, Figure 1 is a block diagram showing an example of an electronic communications device 10 to which example embodiments of the event scheduler described herein can be applied. The communications device 10 is a two-way mobile communication device having
10 voice and messaging communications capabilities. Depending on the functionality provided by the device 10, in various embodiments the device 10 may be a data communication device, a multiple-mode communication device configured for both data and voice communication, a mobile telephone, a PDA enabled for wireless communication, a computer system with a wireless modem
15 or wireless network card, or a computer or phone device with a fixed connection to a network, among other things. The device 10 may be a handheld device.

[0021] In the example embodiment shown in Figure 1, the device 10 includes a communication subsystem 11. The communication subsystem 11 may include one or more receivers, transmitters, and associated components such as one or
20 more antenna elements, and a processing module such as a digital signal processor (DSP). As will be apparent to those skilled in the field of communications, the particular design of the communication subsystem 11 will be dependent upon the communication network(s) in which the device 10 is intended to operate.

[0022] Signals received by the device 10 from a wireless communication network
25 50 are input to the receiver of the communication subsystem 11, which may perform such common receiver functions as signal amplification, frequency down conversion, filtering, channel selection and the like. In a similar manner, signals to be transmitted are processed, including modulation and encoding for
30 example, by the DSP and input to the transmitter for digital to analog conversion, frequency up conversion, filtering, amplification and transmission over the wireless communication network 50.

[0023] The device 10 includes a microprocessor 38 that controls the overall operation of the device. The microprocessor 38 interacts with the communications subsystem 11 and also interacts with further device subsystems such as a display 22, flash memory 24, random access memory (RAM) 26, one or more auxiliary input/output (I/O) subsystems or devices 28 (e.g. a thumbwheel 28a), serial port 30, keyboard or keypad 32, speaker 34, microphone 36, a short-range communications subsystem 40, and any other device subsystems generally designated as 42.

[0024] Figure 2 shows, in diagrammatic form, a front view of an example handheld embodiment of the device 10 of Figure 1. The device 10 includes the display 22, alphanumeric keyboard or keypad 32 and thumbwheel 28a.

[0025] Referring again to Figure 1, operating system software 54 and various software applications 58 used by the microprocessor 38 are, in one example embodiment, stored in a persistent store such as flash memory 24 or similar storage element. Those skilled in the art will appreciate that the operating system 54, software applications 58, or parts thereof, may be temporarily loaded into a volatile store such as RAM 26. It is contemplated that received communication signals may also be stored to RAM 26.

[0026] The microprocessor 38, in addition to its operating system functions, in example embodiments enables execution of software applications 58 on the device. A predetermined set of software applications 58 which control basic device operations, including data and voice communication applications for example, will normally be installed on the device 10 during manufacture. Further software applications 58 may also be loaded onto the device 10 through the wireless communication network 50, an auxiliary I/O subsystem 28, serial port 30, short-range communications subsystem 40 or any other suitable subsystem 42, and installed by a user in the RAM 26 or a non-volatile store for execution by the microprocessor 38. Such flexibility in application installation increases the functionality of the device and may provide enhanced on-device functions, communication-related functions, or both. For example, secure communication applications may enable electronic commerce functions and other such financial transactions to be performed using the device 10.

[0027] In a data communication mode, a received signal such as a text message or web page download will be processed by the communication subsystem 11 and input to the microprocessor 38, which further process the received signal for output to the display 22 through the graphics subsystem, or alternatively to an auxiliary I/O device 28. A user of device 10 may also compose data items within a software application 58, such as email messages and calendar entries for example, using the keyboard 32 in conjunction with the display 22 and possibly an auxiliary I/O device 28 (e.g. the thumbwheel 28a). Such composed items may then be transmitted and received over a communication network through the communication subsystem 11.

[0028] The serial port 30 (which may be for example a universal serial bus (USB) port) in Figure 1 may enable a user to set preferences through an external device or software application and would extend the capabilities of the device by providing for information or software downloads to the device 10 other than through a wireless communication network.

[0029] The short-range communications subsystem 40 is a further component which may provide for communication between the device 10 and different systems or devices, which need not necessarily be similar devices. For example, the subsystem 40 may include an infrared device and associated circuits and components or a Bluetooth™ communication module to provide for communication with similarly enabled systems and devices.

[0030] Wireless communication network 50 is, in an example embodiment, a wireless wide area packet data network, (e.g. Mobitex™ or DataTAC™), which provides radio coverage to mobile devices 10. Wireless communication network 50 may also be a voice and data network such as GSM (Global System for Mobile Communication) and GPRS (General Packet Radio System), CDMA (Code Division Multiple Access), or various other third generation networks such as EDGE (Enhanced Data rates for GSM Evolution) or UMTS (Universal Mobile Telecommunications Systems). In some example embodiments, network 50 is a wireless local area network (WLAN), such as for example a network compliant with one or more of the IEEE 802.11 family of standards. In some example embodiments, the device 10 is configured to communicate in both data and

voice modes over both wireless WAN and WLAN networks and to roam between such networks.

[0031] Under instructions from various software applications 58 resident on the device 10, the processor 38 is configured to implement various functional components or modules 300, some of which are represented in Figure 3, for interacting with the device subsystems described above. In an example embodiment, the software resident on the device 10 includes applications for implementing an event scheduler 302, an address book 304, a telephone 306, and email and/or instant text messaging 308. In some embodiments, some or part of the functionality of the functional modules 300 can be implemented through firmware or hardware components instead of, or in combination with, computer software instructions executed by the microprocessor 38 (or other processors).

[0032] The event scheduler 302 is provided for facilitating the scheduling of events based upon the content of a received message, such as an email or instant text message. The messaging module 308 enables the device 10 to send and receive messages, such as email messages, over one or more wireless networks 50.

[0033] It should be noted that the term "message" is used to designate any type of electronic message such as an email (which may include a thread of emails), text or SMS message, instant message, etc. Likewise, the term "event" is used to designate any type of event, such as an appointment, a meeting, a conference call, a scheduled task etc.

[0034] The event scheduler 302 may be implemented as part of an electronic messaging application, such as messaging module 308 or as part of a general event scheduling application, such as calendar 301. Alternatively, the event scheduler 302 may be implemented as an independent application that communicates with an electronic messaging application and/or a general event scheduling application. The use of calendar applications and electronic messaging applications on PDA-type devices and personal computers to schedule appointments, meetings and the like is common place.

[0035] The address book 304 enables contact information, such as telephone numbers and email and/or instant text messaging addresses, to be stored and

accessed on the device 10. The messaging module 308 enables the device 10 to transmit and receive messages over one or more wireless networks 50.

[0036] With reference to Figure 2, in at least some example embodiments, the modules 300 each have an associated selectable icon that is displayed on the display 22 as part of a graphical user interface. For example, Figure 2 shows an icon 301a for calendar 301, an icon 304a for address book 304, an icon 306a for phone 306 and an icon 308a for electronic messaging 308.

[0037] According to example embodiments of the invention, the event scheduler 302 permits a user of the device 10 to set up or schedule an event based upon information in a received message (e.g. email, instant text message, or the like). The event scheduler 302 will automatically fill in details of the event that are contained in the message itself, as will be described in more detail below.

[0038] In this regard, reference is now made to Figure 4A that shows, in diagrammatic form, an illustrative email message 400 generated on the display 22. It should be noted that an email message is used by way of example only as the message could be any type of message, as described previously. The message 400 may be displayed on the display 22 in response to user selection of an email message from a list of messages maintained by messaging module 308 or in response to other activity at device 10. In an example embodiment, part of or the entire message 400 is stored in a storage of the device 10, for example, in flash memory 24 or RAM 26. It should be noted that due to the size of a display 22, the entire message (particularly in the case of a long email thread) would not be shown in a single screen shot. The user would be able to scroll through the message via the keyboard and/or an auxiliary input device such as the thumbwheel 28a.

[0039] The message 400 includes various fields such as the sender name 402, the list of recipients 404, the subject of the message 406, the date and/or time the message was sent 408 and the message body 410. In an example embodiment, embedded within the message body is date and time information 412 for an event (a meeting in the illustrated example) and location information 413 for the event. The user may prompt the display of a menu 414, as shown in Figure 4B, via the keyboard and/or an auxiliary input device such as thumbwheel 28a. This menu 414 may comprise a plurality of selectable items,

including a "Schedule New Event" item 416. It should be noted that the list of recipients 404 may include one or more recipients, one or more groups of recipients or a combination thereof.

5 [0040] Selection of the "Schedule New Event" item 416 generates a new event scheduling interface 500 on the display 22, as shown in Figure 5A, for scheduling an event associated with the electronic message 400. This new event scheduling interface 500 includes a number of fields for inputting information about the event, such as an invited attendee field 502, a subject field 504, a notes field 506, an event date field 508, an event time field 510, 10 and an event location field 511. The event scheduler 302 will automatically populate the fields of the New Event scheduling interface 500 in dependence on information extracted from the email message. For example, information from the list of recipients 404, the subject 406, the entire text of the message body 410, and information from within the message body such as the first occurring 15 date and time text 412, and location information 413 may be extracted. The event scheduler 302 may also extract additional information such as the importance of the message, the attachments and the names of the attachments. Once a user confirms the content of the fields of the event scheduling interface 500, a corresponding event record 312 (see Figure 3) is 20 stored in the flash memory 24

[0041] In at least some example embodiments, the invited attendees field 502 will be automatically populated from recipients identified in the list of recipients field 404 of the electronic mail message and with the sender identified in the 25 sender field 402. Optionally, certain recipients may be omitted from the invited attendees field 502, for example the recipients who were only copied on the message would be omitted and the attendees field would only be populated with the one or more direct recipients. The subject field 504 will be automatically populated with text extracted from the subject field 406 of the message 400. 30 Optionally, the "Re:" or "Fw:" strings may be removed from the subject text. In an example embodiment, the notes field 506 will be automatically populated with the entire content of the message body 410. In some applications, the notes field 506 can be left blank or automatically populated with only a portion

of the message body (for example, up to a threshold number of characters in the message body, starting from the beginning of the message). The notes field 506 may also be automatically populated with the attachments and/or the names of the attachments. It should be noted that due to the size of a typical display 22, the entire message body (particularly in the case of a long email thread) would not be shown simultaneously on the display 22 of the device in the notes field 506. The user would be able to scroll through the notes field 506 via the keyboard and/or an auxiliary input device such as the thumbwheel 28a.

[0042] In an example embodiment, the event scheduler 302 is configured to scan the text of at least the message body 410 for date and time information to populate the date and time fields 508, 510. In particular the event scheduler 302 is configured to look for predetermined character strings that are typically associated with date and time (for example names of months and/or days, and number/character strings associated with a clock time such `*:**`, where `*` is a numeric character). As is apparent from Figure 4A, in the case of an ongoing email thread, the message body 410 includes a number of email messages, including header information 415 from previous emails. This header information 415 includes sent/and or received date/time information for the previous emails in the thread. In an example embodiment, the event scheduler 302 is configured recognize date/time information contained in email headers 415 embedded in the message body and ignore such information. Thus, in at least one example embodiment, scanning is limited to the message body 410 with embedded header information, including the sent/received date/time field of previous messages in a thread being ignored.

[0043] In one configuration, the date field 508 and time field 510 of event record 500 will be automatically populated with the first date and time characters 412 found in the message body 410 (ignoring embedded header information), scanning from beginning to end of the message body. For example, with reference to Figure 4A, if "January 1 at 3:00 pm" was found in the body of the message before any other date/time information, the date field 508 and the time field 510 would automatically be populated with the date "January 1" and the start time "3:00 pm", respectively. In the illustrated example, the time field 510 includes both start time and end time sub-fields, and a configurable and

editable default duration of 1 hour is applied, resulting in an end time of 4:00 pm. In some embodiments, the event scheduler is configured to look for strings in a the message body that denote either an end time or duration of the meeting and use such information to populate the "End Time" sub field. As message threads are typically arranged in reverse chronological order (most recent to oldest), scanning from beginning to end of the message body will typically capture the most recent proposed time information.

[0044] It should be understood that while in the above description, the event scheduler 302 will extract from the email message the first occurring date and time text 412, the event scheduler 302 may alternatively be configured to extract date and time text according to other predetermined criteria, for example the date and time text that is closest a particular word (e.g. "confirm"). In some embodiments, a number of occurrences of date and time text may be extracted from the message body as different selection options, and the user given the opportunity to scroll through and select from the different selection options. In some embodiments, the subject field 406 of email 400 and the subject fields in the header information 415 of messages within the thread contained in the message body 410 are included in the scan with information contained therein being given alternatively higher or lower priority than information in the message body, according to preconfigured ranking criteria applied by the event scheduler 302.

[0045] In a message, it is unlikely that reference will be made to the year. The date field will automatically be populated with a default value, for example the current year. Similarly, if the date and/or time are not found in the message body 410, or if other information is not found in the message, the corresponding record fields will automatically be populated with default values, for example, in the case of the date/time fields, 12:00 pm or the current date and/or time information. Of course, the user may manually enter any missing information, as will be described in more detail below. If the user does not enter all of the necessary information, they may be prompted to do so.

[0046] In an example embodiment, the event scheduler 302 scans the message body 410 (and in some configurations, the subject field 406) for location information 413 to extract and the location field 511 of the event scheduling

interface 500 may be automatically populated with such location information. In such embodiments, the event scheduler 302 is configured to look for predetermined text strings that denote location information (for example "main boardroom"; or "room *" where * is a wild character, etc.), and extract the relevant location information. In the illustrated embodiment, the location information 413 that is extracted is the location "main boardroom".

[0047] It will be appreciated that additional automatically populating fields could be included in the event scheduling interface 500. Similarly, the new event record may not include all of the fields mentioned above.

10 [0048] A user of device 10 may scroll through the displayed fields of the new event scheduling interface 500 on the device display 22 and edit various fields. For example, by selecting the invited attendees field 502, a user may add or delete invited attendees. In order to add or delete invited attendees, the user may prompt the display of another menu 512, as shown in Figure 5B, via the
15 keyboard and/or an auxiliary input device such as thumbwheel 28a. This menu 512 may comprise a plurality of selectable items, including a "Add Attendee" item 514 and a "Delete Attendee" item 516. Selection of the "Add Attendee" item 514 may prompt the display of a further menu (not shown) which would allow the user to select the name of an attendee from the address book 304.
20 Once the name of the attendee has been selected, the invited attendee field is automatically populated. Alternatively, the user may enter additional attendees names manually and these names will be automatically associated with their address/phone number. If the contact details of the additional attendee(s) are not stored in the address book 304, the user may enter this information
25 manually as well. In some embodiments, the stored contact information database 310 is stored locally in a storage such as flash memory 24 of the device and periodically synchronized with an address book maintained at a personal computer of the user. In other embodiments, the stored contact information may be retrieved from a remote server or computer over wireless
30 network 50 as part of the lookup function.

[0049] In order to delete one or more attendees, the user may select the one or more attendees by scrolling through the attendees via the keyboard and/or an auxiliary input device such as thumbwheel 28a. Once the selection is made, the

user may prompt the display of the menu 512 in order to delete the selected attendees.

[0050] The user can also scroll through and edit the subject, time, date and location fields 504, 510, 508 and 511 using the keyboard and/or an auxiliary input device such as thumbwheel 28a. The user may also scroll through the notes field using the keyboard and/or an auxiliary input device such as thumbwheel 28a, particularly if the message body contains a long email or email thread.

[0051] Once the user is satisfied with the information included in the new event scheduling interface 500, the user can select a "Save" selection 518 from menu 512 (Figure 5B), which in an example embodiment (i) causes the information in the fields of the interface 500 to be saved as stored event record 312 in a storage of or accessible to the mobile device 10; and (ii) causes the messaging module 308 to send an electronic event notification that includes at least some of the information contained in the fields of the event scheduler interface 500 to the listed invitees. Once the information has been saved, the new event will appear as a calendar entry 600 for the date 602 (which corresponds to the date shown in date field 508), as shown in Figure 6, which can be called up for viewing and, in some cases, editing or cancellation. In an example embodiment, the sent electronic event notification is sent to the invitees as a meeting request, as shown in Figure 7, whereby each of the recipients will be able to either accept or decline the event.

[0052] In at least one example embodiment, the event scheduler 302 and/or calendar 301 will generally attempt to generate a prompt or reminder at the time and date set in the time and date fields 610 and 608, respectively. However, the user may request that a reminder be generated at a set duration prior to the scheduled event.

[0053] For example, when the time for a scheduled event occurs, the event scheduler and/or calendar 301 causes an event reminder dialog box to be displayed on display 22. An example of such an event reminder dialog box 800 is shown in Figure 8 comprising a plurality of buttons 802. The plurality of buttons 802 comprises a open button 804 (designated by "Open") for viewing the details of the scheduled phone call in an interface screen similar to the new

event graphical user interface screen 500, a defer button 806 (designated by "Snooze") for deferring the reminder to a new time and date and a dismiss button 808 (designated by "Dismiss") for dismissing the reminder.

[0054] The above-listed names for each of the plurality of buttons 802 are intended as examples, and the skilled person will understand that any reasonable name could be used. Likewise, any suitable combination of buttons may be used. Moreover, the plurality of buttons may be replaced with any suitable user interface. As indicated in Figure 8, the information from the subject field 504 is shown in the dialog box 800, along with the scheduled date and time of the event. In some embodiments, if the device 10 is turned off when the scheduled time occurs, the reminder dialog box 800 is displayed the next time the device is activated. Similarly, in some embodiments, if the device 10 is in a locked or inactive state when the scheduled time occurs, the reminder dialog box 800 is displayed when the user next unlocks or activates the device.

[0055] The user may select one of the plurality of buttons displayed in dialog box 800 using an auxiliary I/O device 28 such as, for example, the thumbwheel 28a, or the keyboard 32 in conjunction with the display 22.

[0056] If the user selects the open button 804, the device 10 will display the details of the event in an interface screen similar to the new event graphical user interface screen 500 which presents the information previously entered and/or extracted from the message (as described above). If the defer button 806 is selected, the device 10 will exit the dialog box 800 and defer the display of the reminder dialog box 800 to a specified time and/or date. Optionally, the device 10 will present a further date and time field for entry of this specified time and/or date. If the dismiss button 808 is selected, the device 10 will simply exit the reminder dialog box 800.

[0057] It should be understood that while in the above description, the entering of information, selection of items, and the like is performed using the device 10, it is equally possibly these tasks be performed using a computer, for example a desktop computer, in communication with the device 10. Furthermore, the event scheduling described herein can be applied to communications devices other than mobile devices, including stationary computers that are configured to send and receive messages over a network.

[0058] While the invention has been described in detail in the foregoing specification, it will be understood by those skilled in the art that variations may be made without departing from the scope of the invention, being limited only by the appended claims.

What is claimed is:

1. A method for scheduling an event on an electronic communications device configured for sending and receiving electronic messages over a communications network, comprising:

identifying by the communications device of a most recent proposed date associated with an electronic message by scanning the electronic message and selecting, as the most recent proposed date, a first occurrence of a date in a message body of the electronic message meeting predetermined criteria;

extracting by the communications device of the most recent proposed date from the message body;

displaying on a display of the communications device an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and

automatically populating by the communications device of a date input field of the event scheduling interface with the most recent proposed date extracted from the message body;

wherein the predetermined criteria specifies a thread of messages constituting the message body of the electronic message, the thread being in reverse chronological order and specifies that any date contained in a header portion of a previous message embedded in the message body is ignored.

2. The method of claim 1 comprising, after populating the input fields and upon receiving a predetermined input, storing an event record for the event comprising information contained in the date input field.

3. The method of claim 1 or claim 2 wherein the input fields comprise an attendee field for identifying participants in the event, the method comprising sending an event notification of the event over the communications network to the participants identified in the attendee field.

4. The method of claim 3 wherein the electronic message comprises a recipient field for identifying recipients of the electronic message, wherein the attendee field is automatically populated in dependence on the recipients identified in the recipient field.
5. The method of any one of claims 1 to 4 wherein the predetermined criteria specifies that any time contained in a header portion of a previous message embedded in the message body is not to be populated in the date input field of the event scheduling interface .
6. The method of any one of claims 1 to 5 further comprising identifying event location information in the message body and extracting the location information, wherein a location input field of the event scheduling interface is automatically populated in dependence on the extracted location information.
7. The method of any one of claims 1 to 6 wherein the electronic message comprises a subject field identifying a subject of the electronic message and the event scheduling interface comprises a subject input field, wherein the extracted information comprises text from the electronic message subject field and the event scheduling interface subject input field is automatically populated with at least some of the text from the electronic message subject field.
8. The method of any one of claims 1 to 7 wherein the electronic message is an email message that comprises a plurality of email message fields comprising a sender field for identifying a sender of the electronic message, a time field for identifying at least one of a time sent and a time received of the electronic message, a recipients field for identifying the recipients of the electronic message, a subject field for identifying a subject of the electronic message, and a message body field, wherein the extracted information comprises information extracted from at least one of the email message fields.

9. The method of any one of claims 1 to 8 wherein the extracting is done after displaying the event scheduling interface.

10. The method of any one of claims claim 1 to 9 comprising, prior to the extracting and the displaying of the event scheduling interface, (i) displaying the electronic message and (ii) displaying, in response to an input, a menu that comprises a selectable option to schedule a new event associated with the electronic message; wherein a selection of the option to schedule a new event triggers the extracting of information and displaying of the event scheduling interface.

11. A communications device enabled to communicate over a communications network with other devices, comprising:

- a display;

- an input device;

- a messaging module for exchanging electronic messages with other devices;

- a storage storing electronic messages sent or received by the device; and

- a scheduling module configured for identifying by the communications device of a most recent proposed date associated with an electronic message by scanning the electronic message and selecting, as the most recent proposed date, a first occurrence of a date in a message body of the electronic message meeting predetermined criteria; extracting by the communications device of the most recent proposed date from the message body; displaying on the display an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and automatically populating by the communications device of a date input field of the event scheduling interface with the most recent proposed date extracted from the message body;

wherein the predetermined criteria specifies a thread of messages constituting the message body of the electronic message, the thread being in reverse chronological order and specifies that any date contained in a header portion of a previous message embedded in the message body is ignored.

12. The device of claim 11 wherein the scheduling module is configured for, after populating the date input field and upon receiving a predetermined input, storing an event record for the event comprising information contained in the date input field.
13. The device of claim 11 or claim 12 wherein the input fields comprise an attendee field for identifying participants in the event, the scheduling module being configured for causing the messaging module to send an event notification of the event over the communications network to the participants identified in the attendee field.
14. The device of claim 13 wherein the electronic message comprises a recipient field for identifying recipients of the electronic message, wherein the scheduling module is configured for automatically populating the attendee field in dependence on the recipients identified in the recipient field.
15. The device of any one of claims 11-14 wherein the scheduling module is further configured for identifying event location information in the message body and extracting the location information, wherein a location input field of the event scheduling interface is automatically populated in dependence on the extracted location information.
16. The device of any one of claims 11-15 wherein the electronic message is an email message that comprises a plurality of email message fields comprising a sender field for identifying a sender of the electronic message, a time field for identifying at least one of a time sent and a time received of the electronic message, a recipients field for identifying the recipients of the electronic message, a subject field for identifying a subject of the electronic message, and a message body field, wherein the extracted information comprises information extracted from at least one of the email message fields.

17. A computer program product comprising a computer readable medium storing computer executable instructions for scheduling an event on an electronic communications device configured for sending and receiving electronic messages over a communications network, the instructions comprising instructions for:

identifying by the communications device of a most recent proposed date associated with an electronic message by scanning the electronic message and selecting, as the most recent proposed date, a first occurrence of a date in a message body of the electronic message meeting predetermined criteria;

extracting by the communications device of the most recent proposed date from the message body;

displaying on a display of the communications device an event scheduling interface for scheduling an event, the event scheduling interface having a plurality of input fields for receiving information about the event; and

automatically populating by the communications device of a date input field of the event scheduling interface with the most recent proposed date extracted from the message body;

wherein the predetermined criteria specifies a thread of messages constituting the message body of the electronic message, the thread being in reverse chronological order and specifies any date contained in a header portion of a previous message embedded in the message body is ignored.

18. The method of any one of claims 1 to 10, further comprising:

identifying by the communications device of a first occurrence of a time in a message body of an electronic message meeting predetermined criteria;

extracting by the communications device of the identified time from the message body; and

automatically populating by the communications device of a time input field of the event scheduling interface with the identified time extracted from the message body.

19. The device of any one of claims 11 to 16 wherein the scheduling module is further configured for:

identifying by the communications device of a first occurrence of a time in a message body of an electronic message meeting predetermined criteria;

extracting by the communications device of the identified time from the message body; and

automatically populating by the communications device of a time input field of the event scheduling interface with the identified time extracted from the message body.

20. The method of any one of claims 1 to 10 or 18, further comprising:

receiving a user input during display of the electronic message, the user input configured to cause formation of a calendar invitation based on the electronic message; and

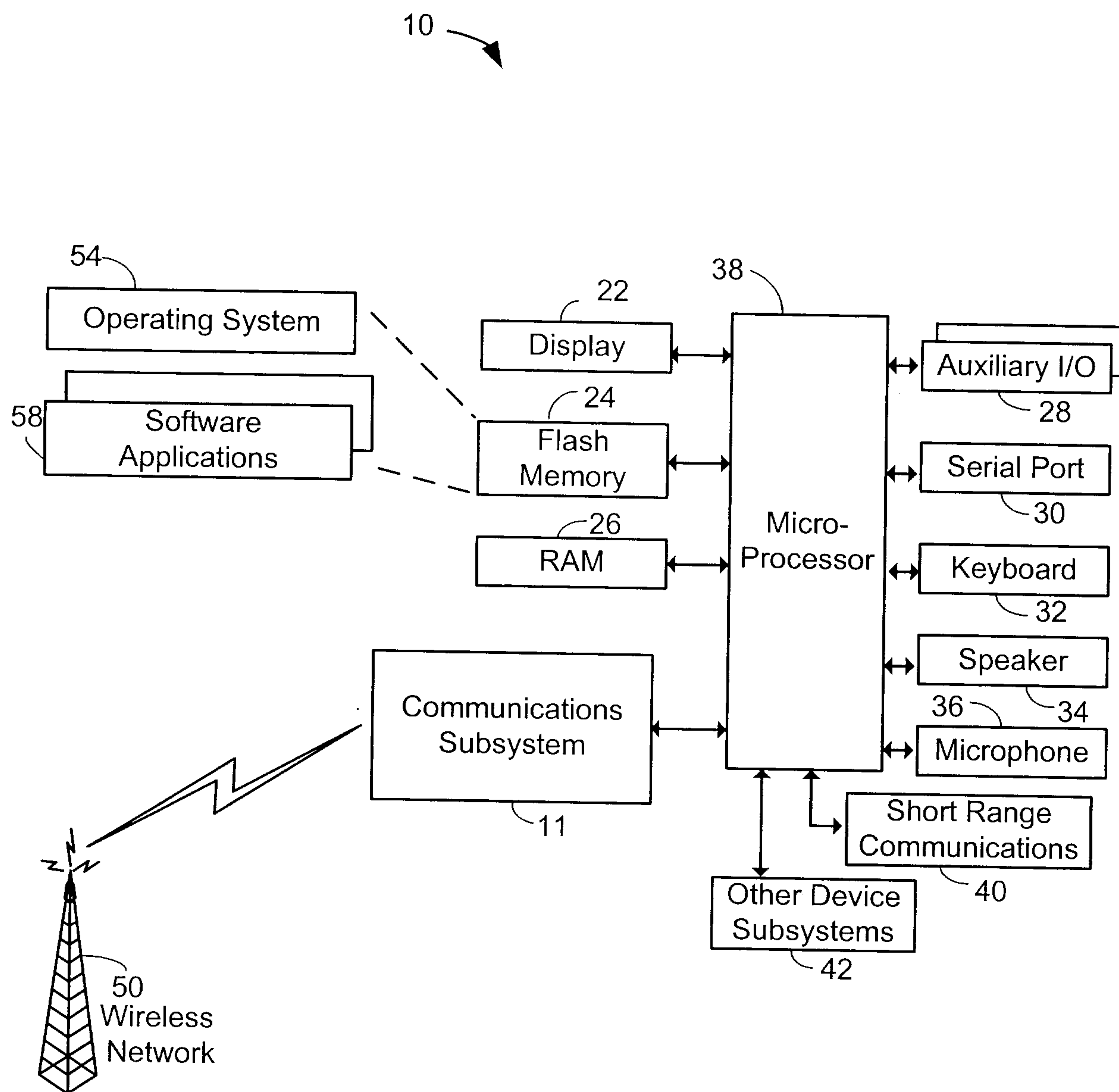
sending the calendar invitation after the identifying, extracting, displaying and automatically populating, the calendar invitation being addressed to entities identified in a "From:" header and a "To:" header of the electronic message and containing the identified date extracted from the message body.

21. The device of any one of claims 11 to 16 or 19, wherein the scheduling module is further configured for:

receiving a user input during display of the electronic message, the user input configured to cause formation of a calendar invitation based on the electronic message; and

sending the calendar invitation after the identifying, extracting, displaying and automatically populating, the calendar invitation being addressed to entities identified in a "From:" header and a "To:" header of the electronic message and containing the identified date extracted from the message body.

1/7

Fig. 1

2/7

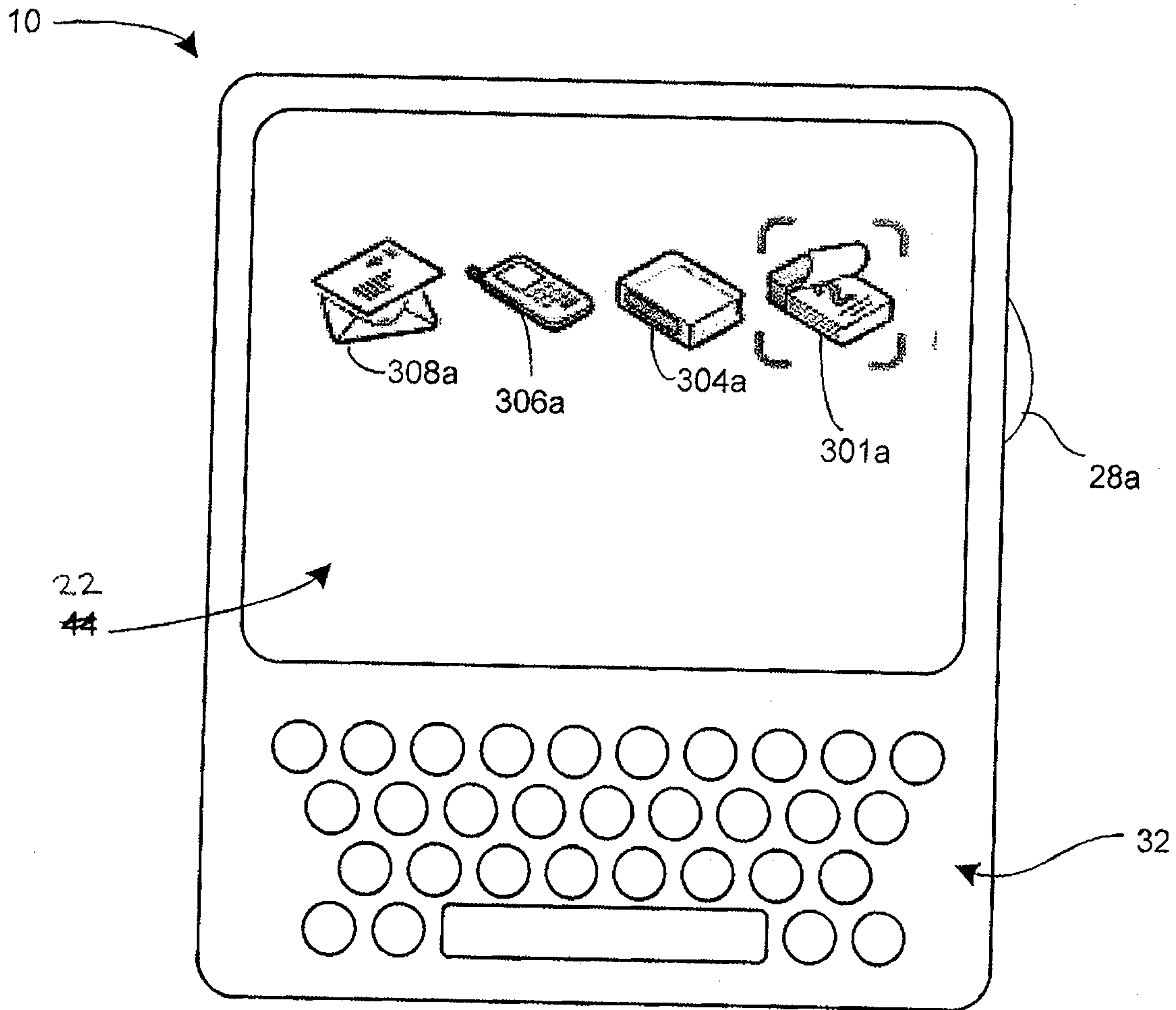


Fig. 2

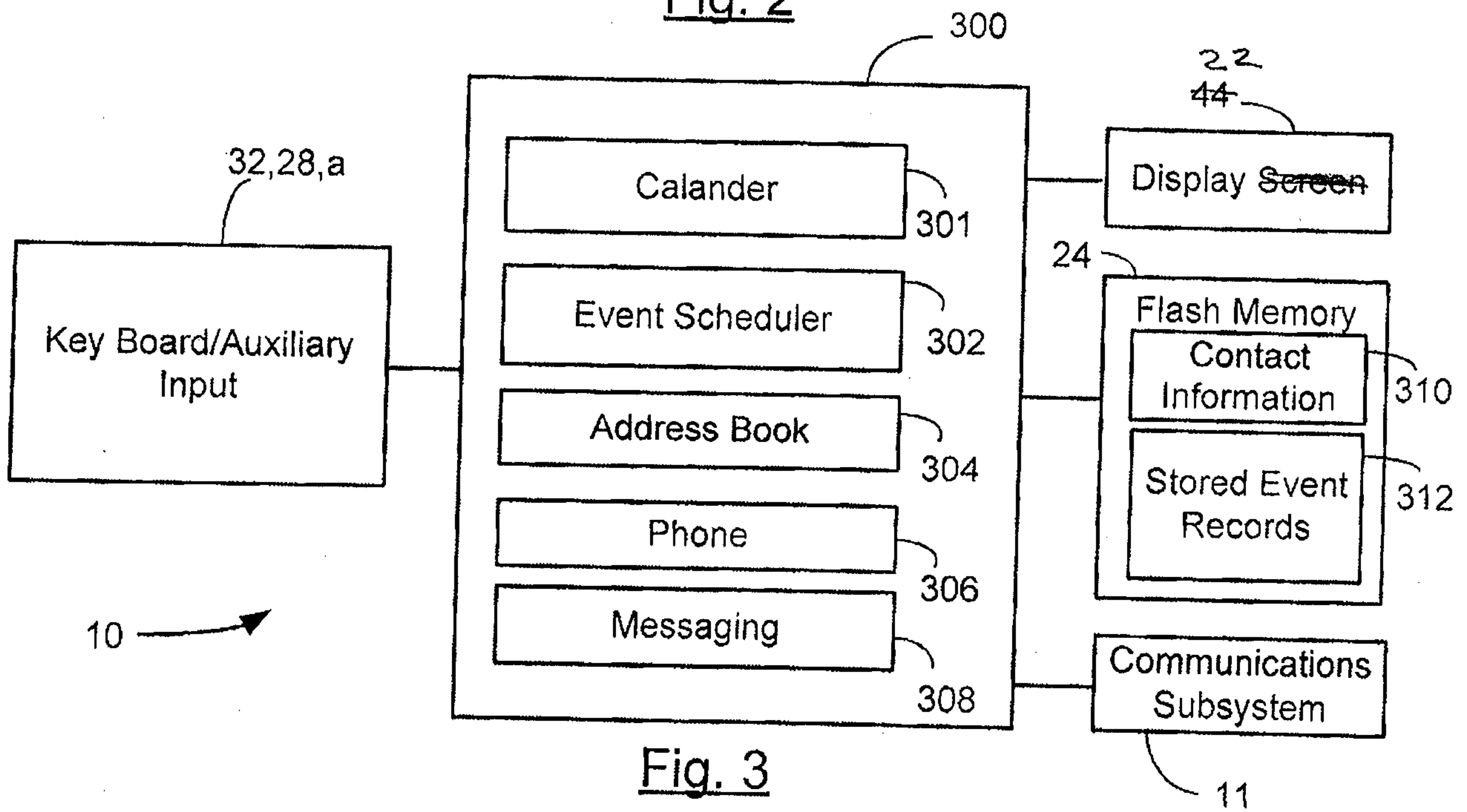
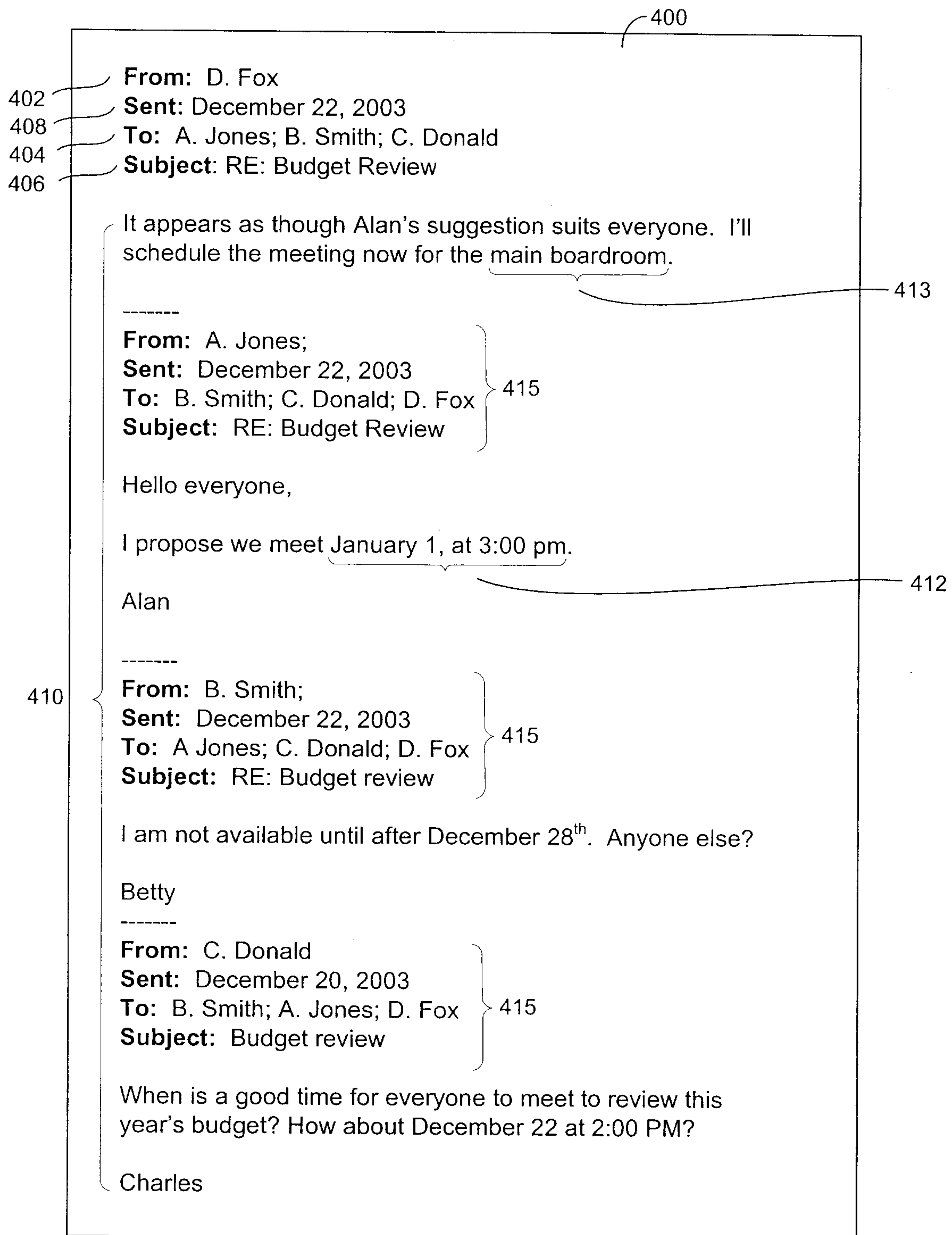
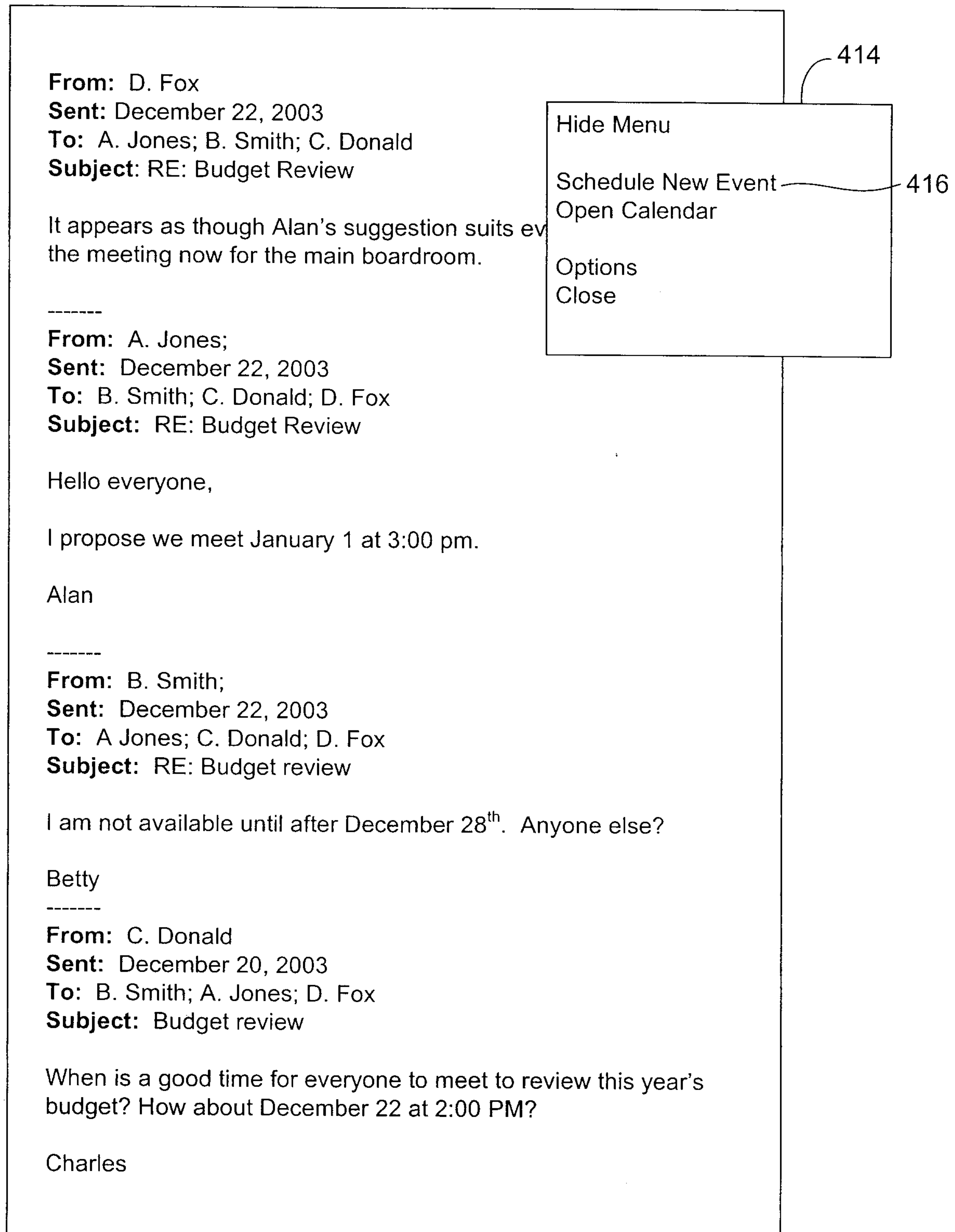


Fig. 3

3/7

Fig. 4A

4/7

Fig. 4B

5/7

500

NEW EVENT	504
Subject: Budget Review	
Invited Attendees: B. Smith; A. Jones; D. Fox; C. Donald	502
Start Time: 3:00 PM End Time: 4:00 PM	510
Date: Monday, January 1, 2005	508
Location: main boardroom	511
Notes:	
From: D. Fox Sent: December 22, 2003 To: A. Jones; B. Smith; C. Donald Subject: RE: Budget Review	506
It appears as though Alan's suggestion suits everyone. I'll schedule the meeting now.	

Fig. 5A

NEW EVENT	
Subject: Budget Review	
Invited Attendees: B. Smith; A. Jones; D. Fox; C.	
Start Time: 3:00 PM End Time: 4:00 PM	
Date: Monday, January 1, 2005	
Location: main boardroom	
Notes:	
From: D. Fox Sent: December 22, 2003 To: A. Jones; B. Smith; C. Donald Subject: RE: Budget Review	
It appears as though Alan's suggestion suits everyone. I'll schedule the meeting now.	

512
 Hide Menu
 Add Attendee(s) 514
 Delete Attendee(s) 516
 Save 518
 Options
 Close

Fig. 5B

6/7

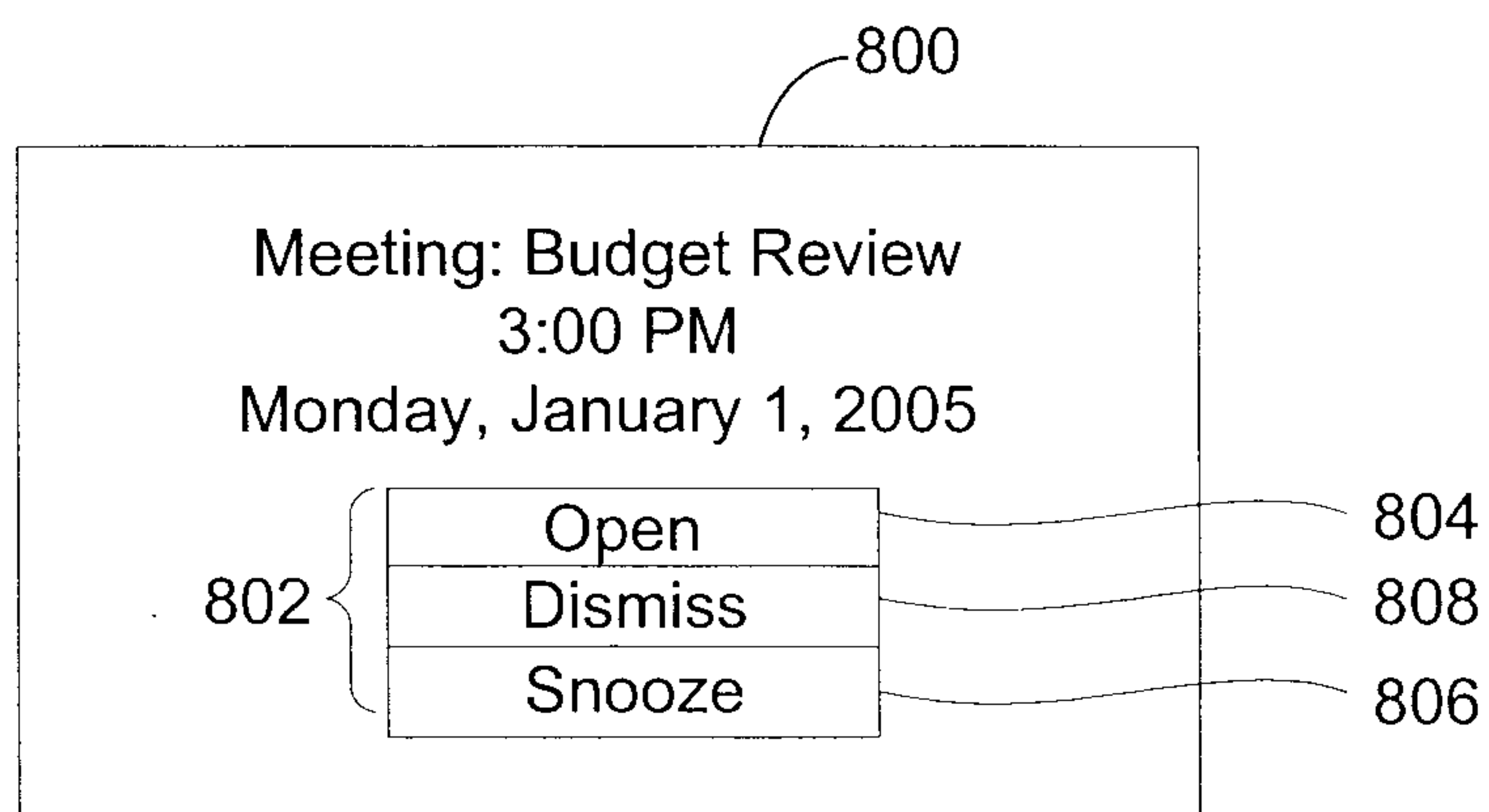
Jan 1, 04 ⁶⁰²	
9:00a	
10:00a	
11:00a	
12:00p	
1:00p	
2:00p	
3:00p	Budget Review ⁶⁰⁰
4:00p	
5:00p	

Fig. 6

MEETING REQUEST	
Subject: Budget Review	
Invited Attendees: B. Smith; A. Jones; D. Fox; C. Donald	
Start Time: 3:00 PM	End Time: 4:00 PM
Date: Monday, January 1, 2005	
Organizer: A. Jones	
Invited: D. Fox, B. Smith, C. Donald	
Location: main boardroom	
Notes:	
From: D. Fox Sent: December 22, 2003 To: A. Jones; B. Smith; C. Donald Subject: RE: Budget Review	
It appears as though Alan's suggestion suits everyone. I'll schedule the meeting now.	

Fig. 7

7/7

Fig. 8

