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Handheld electronic device having improved phone call log, and associated method

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H04M 1/57 (2006.01)

H04M 1/725 (2006.01)

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(71) Applicant(s)

Research In Motion Limited

(72) Inventor(s)

Vander Veen, Raymond P; Bocking, Andrew D

(74) Agent/Attorney

Spruson & Ferguson, Level 35 St Martins Tower 31 Market Street, Sydney, NSW, 2000

(56) Related Art

US 6,320,943

US 2004/0102225

GB 2 259 429

2005209636 09 Sep 2005

ABSTRACT

An improved handheld electronic device (4) and an associated method provide an improved call log that presents information relating to logged phone (56) calls in a collapsed manner, meaning that for each phone number having a call stored in the memory (44) of the device (4), only the most recent in time call (58) is listed on the call log (56). An improved handheld electronic device (4) and an associated method also provide a call history for any phone call from the improved call log (56) that is selected by the user. The call history includes a listing of all of the calls stored by the device that are associated with the selected call log call.

(Fig 1)

2005209636 09 Sep 2005

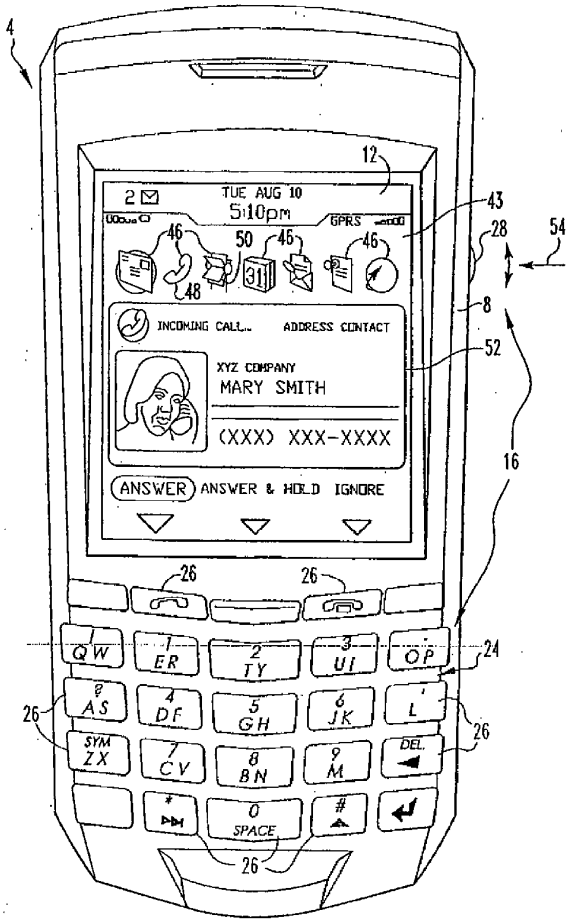

FIG.1

2005209636 09 Sep 2005

HANDHELD ELECTRONIC DEVICE HAVING IMPROVED PHONE CALL LOG, AND ASSOCIATED METHOD

BACKGROUND OF THE INVENTION

Field of the Invention

The invention relates generally to handheld electronic devices and, more particularly, to a handheld electronic device having an improved phone call log. The invention also relates to a method of logging and displaying information relating to phone calls placed with and received or missed by a handheld electronic device.

Definition

In the specification the term "comprising" shall be understood to have a broad meaning similar to the term "including" and will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps. This definition also applies to variations on the term "comprising" such as "comprise" and "comprises".

Description of the Related Art

Numerous types of handheld electronic devices are known. Examples of such handheld electronic devices include, for instance, personal data assistants (PDAs), handheld computers, two-way pagers, cellular telephones, and the like. Such handheld electronic devices are generally intended to be portable and thus are relatively small. Many handheld electronic devices also feature wireless communication capability, although many such handheld electronic devices are stand-alone devices that are functional without communication with other devices.

Many handheld electronic devices include cellular telephone functionality. Such devices often store a log of phone calls placed, received and/or missed by the device in what is commonly referred to as a call log. Information contained in the call log may be selectively accessed by and displayed to the user of the handheld electronic device. Such information is useful to the user to, among other things, help to recall if and when a particular phone call was placed, received, or missed, and to access information about the call such as, for example, the associated telephone number or the name, address or email address of the person associated with the call.

Prior art call logs typically display the phone call information to the user chronologically based on the time and date associated with each call, usually beginning with the most recent call first. Some prior art call logs group and display the logged calls based on the category in which the call falls, i.e., a missed call, a received call, or a placed call. In this case, the calls are still typically displayed chronologically. No effort has been made, however, in the known prior art to group or link together all logged calls that are associated with the same originating or dialed phone number or contact person so that the user of the handheld electronic device can have a contact based view of phone call history. Thus, with known prior art call logs, if a user is interested in knowing the history of calls associated with a particular originating or dialed phone number or contact person, the user must manually search through the chronologically organized call log for all entries for that phone number or contact person.

It is to be understood that reference to any prior art in this specification is not, and should not be taken to be, an acknowledgement or any form of suggestion that the referenced prior art forms part of the common general knowledge in Australia.

SUMMARY

According to a first aspect of the present disclosure, there is provided a method of providing a call log on a handheld electronic device, the method comprising:

storing in a memory call related information for a plurality of outgoing and incoming phone calls, each of the phone calls being associated with one of a plurality of phone numbers;

compiling a list of call log phone calls, each call log phone call including a single history of the phone calls for every one of the phone numbers for which call related information is stored in the memory, wherein the single history of the phone calls for each one of the phone numbers includes a listing of the most recent in time phone calls associated with the one of the phone numbers;

displaying the list of call log phone calls; and

2005209636 17 May 2011

when a call log phone call is selected from the list of call log phone calls, displaying at least part of the listing for the phone number associated with the selected call log phone call that includes every one of the phone calls having call related information stored in the memory that was placed to and received from the phone number.

According to a second aspect of the present disclosure, there is provided a handheld electronic device, comprising:

an input apparatus;

a display;

a processor; and

a memory storing one or more applications executable by the processor, the one or lo more applications being adapted to:

store call related information for a plurality of outgoing and incoming phone calls in the memory, each of the phone calls being associated with a phone number;

compile a list of call log phone calls, each call log phone call including a single history of the phone calls for every one of the phone numbers for which call related information is stored in the memory, wherein the single history of the phone calls for each one of the phone numbers includes a listing of the most recent in time phone calls associated with the one of the phone numbers;

display the list of call log phone calls on the display; and

when a call log phone call is selected from the list of call log phone calls, displaying at least part of the listing for the phone number associated with the selected call log phone call that includes every one of the phone calls having call related information stored in the memory that was placed to and received from the phone number.

2005209636 17 May 2011

BRIEF DESCRIPTION OF THE DRAWINGS

A full understanding of the invention can be gained from the following Detailed Description when read in conjunction with the accompanying drawings in which:

Fig. 1 is a front view of an improved handheld electronic device in accordance with the invention;

Fig. 2 is a block diagram of the handheld electronic device of Fig. 1;

Fig. 3 is a view of a portion of the display of the handheld electronic device of Fig. 1 showing a call log in accordance with the invention;

Fig. 4 is a flowchart depicting a portion of a routine executed by a processor of the handheld electronic device of Fig. 1 for creating and displaying a call log in accordance with the invention;

Fig. 5 is a view of a portion of the display of the handheld electronic device of Fig. 1 showing a call log and a user option menu in accordance with the invention;

2005209636 01 Feb 2011

Fig. 6 is a flowchart depicting a portion of a routine executed by a processor of the handheld electronic device of Fig. 1 for creating and displaying a call history in accordance with the invention; and

Fig. 7 is a view of a portion of a display of the handheld electronic device of Fig. 1 showing a call history in accordance with the invention.

Similar numerals refer to similar parts throughout the specification.

DETAILED DESCRIPTION

Overview

An improved handheld electronic device and an associated method provide an improved call log that presents information relating to logged phone calls in a collapsed manner, meaning that for each phone number having a call stored in the memory of the device, only the most recent in time call is listed on the call log. Another aspect of the present disclosure is to provide a call history for any phone call from the improved call log that is selected by the user. The call history includes a listing of all of the calls stored by the device that are associated with the selected call log call.

These and other aspects of the present disclosure are provided by a method of providing a call log on a handheld electronic device including storing call related information for a plurality of outgoing and incoming phone calls, wherein each of the phone calls is associated with a phone number, compiling a list of call log phone calls, with the call log phone calls being the most recent stored phone call for each of the phone numbers, and displaying the list to a user of the handheld electronic device. The list may include call log information for each of the call log phone calls that may include one or more of the date and time of the call, the phone number associated with the call, and a contact name associated with the call. The call log may display the calls in chronological order, beginning with the most recent call first. The method may further include displaying portions of the call related information for a selected call log call, such as the date, time and duration of and the phone number associated with the selected call.

According to a further aspect of the present disclosure, the method may further include displaying a call history for one of the call log calls selected by the

2005209636 01 Feb 2011

user. The call history preferably includes a listing of all of the stored phone calls associated with the phone number of the selected call log call.

According to still a further aspect of the present disclosure, the method may include providing a menu of user options to the user for either a selected call log call or a selected call history call. The method may further include performing a function associated with the user option that is selected by the user.

According to another aspect of the present disclosure, an improved handheld electronic device having an improved call log capability is provided that includes a display, a processor and a memory storing one or more applications executable by the processor. The one or more applications include instructions for performing the various embodiments of the improved method of proving a call log described above.

Description of Embodiments

An improved handheld electronic device 4 in accordance with the present disclosure is depicted generally in Figs. 1 and 2. The handheld electronic device 4 includes a housing 8, a display 12, an input apparatus 16, and a processor 20 (Fig. 2) which may be, without limitation, a microprocessor (μP). The processor 20 is responsive to inputs received from the input apparatus 16 and provides outputs to the display 12. While for clarity of disclosure reference has been made herein to the exemplary display 12 for displaying various types of information, it will be appreciated that such information may be stored, printed on hard copy, be computer modified, or be combined with other data, and all such processing shall be deemed to fall within the terms "display" or "displaying" as employed herein. Examples of handheld electronic devices are included in U.S. Patent Nos. 6,452,588 and 6,489,950, which are incorporated by reference herein. The handheld electronic device 4 is of a type that includes a cellular telephone capability which, as will be described in greater detail below, provides an improved call log in accordance with the present disclosure. As used herein, the terms "phone" and "telephone" shall refer to any type of voice communication initiated and conducted over a wired and/or wireless network.

2005209636 01 Feb 2011

As can be understood from Fig. 1, the input apparatus 16 includes a keyboard 24 having a plurality of keys 26, and a rotatable thumbwheel 28. As used herein, the expression "key" and variations thereof shall refer broadly to any of a variety of input members such as buttons, switches, and the like without limitation. The keys 26 and the rotatable thumbwheel 28 are input members of the input apparatus 16, and each of the input members has a function assigned thereto. As used herein, the expression "function" and variations thereof can refer to any type of application program, process, task, procedure, routine, subroutine, function call, or other type of software or firmware operation that can be performed by the processor 20 of the handheld electronic device 4.

As is shown in Fig. 2, the processor 20 is in electronic communication with memory 44. Memory 44 can be any of a variety of types of internal and/or external storage media such as, without limitation, RAM, ROM, EPROM(s), EEPROM(s), and the like, that provide a storage register for data storage such as in the fashion of an

2005209636 09 Sep 2005

internal storage area of a computer, and can be volatile memory or nonvolatile memory. The memory 44 further includes a number of applications executable by processor 20 for the processing of data. The applications can be in any of a variety of forms such as, without limitation, software, firmware, and the like, and the term "application" herein shall include one or more routines, subroutines, function calls or the like, alone or in combination.

As is also shown in Fig. 2, processor 20 is in electronic communication with communications subsystem 45. Communications functions for handheld electronic device 4, including data and voice communications, are performed through communications subsystem 45. Communications subsystem 45 includes a transmitter and a receiver (possibly combined in a single transceiver component) and one or more antennas. Other known components, such as a digital signal processor and a local oscillator, may also be part of communications subsystem 45. The specific design and implementation of communications subsystem 45 is dependent upon the communications network in which handheld electronic device 4 is intended to operate. For example, handheld electronic device 4 may include a communications subsystem 45 designed to operate with the Mobiltex™, Dat TAC™ or General Packet Radio Service (GPRS) mobile data communication networks and also designed to operate with any of a variety of voice communications networks, such as AMPS, TDMA, CDMA, PCS, GSM, and other suitable networks. Other types of data and voice networks, both separate and integrated, may also be utilized with handheld electronic device 4. Together, processor 20, memory 44 and communications subsystem 45 may, along with other components (having various types of functionality), be referred to as a processing unit.

In Fig. 1, the display 12 is depicted. as displaying a home screen 43 that includes a number of applications depicted as discrete icons 46, including an icon representing a phone application 48 and an address book application 50. As is known in the art, address book application 50 allows the user of handheld electronic device 4 to store information for a number of "contacts," including, among other things, the contact's name, phone number, home and office addresses, email address, and other information that may be used to contact the person. In Fig. 1, the home screen 43 is currently active and would constitute a portion of an application. In addition, display 12 shown in Fig. 1 shows a pop-up box 52 that indicates that there is currently a phone call coming into handheld electronic device 4. Pop-up box 52

2005209636 09 Sep 2005

provides certain information relating to the incoming call, including, for example, the caller's phone number and identifying information if the caller and phone number are stored as a contact by address book application 50 of handheld electronic device 4. Other applications, such as the phone application 48 or address book application 50, can be initiated from the home screen 43 by providing an input through the input apparatus 16, such as by rotating the thumbwheel 28 and providing a selection input by translating the thumbwheel 28 in the direction indicated by the arrow 54 in Fig. 1.

Phone application 48 stores in memory 44 certain information relating to all outgoing phone calls placed with and incoming phone calls received or missed by handheld electronic device 4. The stored information may include, without limitation, the date and time of the call, the phone number associated with the call, and the duration of the call. Phone application 48 of handheld electronic device 4 includes routines for providing an improved call log for providing information to the user of handheld electronic device 4 relating to outgoing phone calls placed using handheld electronic device 4 and incoming phone calls received and/or missed by handled electronic device 4.

Fig. 3 is an exemplary depiction of display 12 showing call log 56 including a plurality of calls 58 according to the invention. Call log 56 displays logged calls in a collapsed manner, meaning that for each phone number having information relating to a call or calls stored in memory 44 by phone application 48, only the most recent in time call 58 is listed on call log 56. Thus, each individual phone number having information relating to a call or calls stored in memory 44 will have a single entry in call log 56. Preferably, each of the call log calls 58 listed on call log 56 will include the date and time of the call, an icon indicating the nature of the call (i.e., placed, received or missed), and either the name of the caller or person called if that person and the phone number in question are stored as a contact by address book application 50, or the phone number associated with the call if the caller or called person is not stored as a contact. Also, call log 56 preferably lists the call log calls 58 in chronological order, beginning with the most recent call first. As will be described in greater detail below, a user of handheld electronic device 4 may select a particular call 58 from call log 56 and cause a call history associated with the selected call 58 to be displayed on display 12. In particular, the displayed call history will list all calls, incoming and outgoing, stored in memory 44 that are associated with the phone number associated with the selected call 58. The calls in the call history are

2005209636 09 Sep 2005

preferably listed in chronological order beginning with the most recent call (which, as will be appreciated, will be the selected call 58 from call log 56).

A flowchart depicting a routine performed by processor 20 for creating and implementing call log 56 of the invention is shown in Figure 4. In one embodiment, the routine of Figure 4 is initiated and call log 56 is created any time phone application 48 is activated by the user of handheld electronic device 4, such that call log 56 will be the default initial view provided on display 12 for phone application 48. Alternatively, the routine shown in Figure 4 may be initiated and call log 56 may be created and displayed upon request by the user from some other portion of phone application 48.

As shown in Fig. 4, the method begins at 100, where processor 20 obtains from memory 44 information relating to the most recent call, incoming or outgoing, for each phone number that has one or more associated calls stored in memory 44. Next, at 102, a list that includes the most recent in time call for each phone number having one or more associated calls stored in memory 44 is compiled and displayed on display 12 as call log 56. As described above, an example call log 56 is shown in Fig. 3. As used herein, the term "list" shall refer to a compilation of a series of items of information one after another that may or may not be in a predetermined order.

Next, at 104, a determination is made as to whether one of the calls 58 included as an entry on call log 56 is selected by the user, such as by highlighting the call 58 using input apparatus 16. If the answer at 104 is no, then at 106, a determination is made as to whether the user has provided a request using input apparatus 16, to exit either phone application 48 in the embodiment where call log 56 is displayed as the default view for phone application 48 or the call log view (and return to the default phone application view) in the embodiment where call log 56 is not displayed as the default view for phone application 48 but rather must be selected by user. If the answer at step 106 is yes, then the appropriate exit steps are taken at 108. If the answer is no, then the method returns to 102 to continue displaying call log 56.

If, however, the answer at 104 is yes, meaning a call 58 has been chosen by the user, then at 110 a menu 60 of user options 65 is displayed on display 12 as shown in Fig. 5. User options 65 include a number of different functions of handheld electronic device 4 that may be implemented by selecting one of the user options 65. As shown in Fig. 5, such functions may include, without limitation, initiating an

2005209636 09 Sep 2005

application for handheld electronic device 4 for closing menu 60, for calling a selected contact stored by address book application 50, for calling the user's voicemail, for calling the contact listed in call 58, for creating and sending a short message service (SMS) message to the contact listed in call 58, for opening the call 58 to display detailed call information relating to call 58 that is stored in memory 44, for creating and displaying on display 12 a call history for call 58 as described in more detail below, for adding the phone number associated with call 58 to the speed dial list maintained by phone application 48, for deleting call 58 from call log 56, for viewing the speed dial list maintained by phone application 48, for viewing and changing operating options for phone application 48, for viewing status information relating to, for example, the duration of the last call, the total number of minutes for all calls, and the phone number of handheld electronic device 4, for providing help to the user, and for closing phone application 48. Next, at 112 of Fig. 4, handheld electronic device 4 performs the function associated with the selected user option 65, whatever it may be.

Referring to Fig. 6, a flowchart depicting a routine performed by processor 20 for displaying a call history according to the invention is shown. This routine will be initiated if the "view history" user option 65 of menu 60 (Fig. 5) is selected by the user after a particular call 58 has been selected. At 114, processor 20 obtains from memory 44 the call information for all calls associated with the phone number of selected call 58. As an alternative, if the phone number of chosen call 58 matches the phone number of a contact stored by address book application 50, call information for all calls associated with that contact may be obtained at step 114. At 116, a listing of the calls obtained at 114 is created and displayed, along with other information, on display 12 as shown in Fig. 7. As seen on Fig. 7, in addition to the listing of calls, the call history may include, without limitation, the name and phone number associated with the chosen call 58, the nature (i.e., place, received or missed) and duration of the last call, and the number of calls included in the history. Next, at 118 of Fig. 6, a determination is made as to whether a particular call from the displayed list is selected. If no call is selected, then at 120, it is determined whether the user has provided a request to exit the call history functionality. If the answer is yes, then at 122, the method returns to 102 of Fig. 4 wherein call log 56 is displayed. If, however, a call from the displayed list is selected as determined at 118, then, at 124, a menu of user options is displayed similar to menu 60 of user option 65 shown

2005209636 09 Sep 2005

in Fig. 5. Next, at 126, handheld electronic device 4 performs the selected user option, whatever it maybe.

Thus, the invention provides a handheld electronic device having functionality for providing a collapsed call log that gives a user a contact and/or phone number based view of the logged calls. In this manner, the user may readily access, view and request functions for all logged calls associated with a particular contact and/or originating or dialed phone number.

While specific embodiments of the invention have been described in detail, it will be appreciated by those skilled in the art that various modifications and alternatives to those details could be developed in light of the overall teachings of the disclosure. Accordingly, the particular arrangements disclosed are meant to be illustrative only and not limiting as to the scope of the invention which is to be given the full breadth of the claims appended and any and all equivalents thereof.

2005209636 17 May 2011

The claims defining the invention are as follows:

1. A method of providing a call log on a handheld electronic device, the method comprising:

storing in a memory call related information for a plurality of outgoing and incoming phone calls, each of the phone calls being associated with one of a plurality of phone numbers;

compiling a list of call log phone calls, each call log phone call including a single history of the phone calls for every one of the phone numbers for which call related information is stored in the memory, wherein the single history of the phone calls for each one of the phone numbers includes a listing of the most recent in time phone calls associated with the one of the phone numbers;

displaying the list of call log phone calls; and

when a call log phone call is selected from the list of call log phone calls, displaying at least part of the listing for the phone number associated with the selected call log phone call that includes every one of the phone calls having call related information stored in the memory that was placed to and received from the phone number.

2. The method according to claim 1, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log phone calls including a date and time of the one of the call log phone calls.

3. The method according to claim 1, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log

2005209636 17 May 2011

phone calls including the phone number associated with the one of the call log phone calls.

4. The method according to claim 1, the handheld electronic device having an address book application storing a plurality of contact names, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log phone calls including at least one of the phone number associated with the one of the call log phone calls and one of the contact names.

5. The method according to claim 1, the handheld electronic device having an address book application storing a plurality of contact names and associated contact phone numbers, the list including call log information for the one of the call log phone calls, the call log information the each one of the call log phone calls including:

i. the contact name associated with the phone number associated with the one of the call log phone calls if the phone number associated with the one of the call log phone calls matches one of the contact phone numbers, and

ii. the phone number associated with the one of the call log phone calls if the phone number associated with the one of the call log phone calls does not match one of the contact phone numbers.

6. The method according to claim 1, the list listing the call log phone calls in chronological order beginning with the most recent of the call log phone calls.

2005209636 17 May 2011

7. The method according to claim 1, further comprising displaying portions of the call related information for one of the call log phone calls that is selected by a user.

8. The method according to claim 7, the portions of the call related information including the date, time and duration of and the phone number associated with the selected one of the call log phone calls.

9. The method according to claim 1, further comprising displaying a call history for one of the call log phone calls that is selected by a user.

10. The method according to claim 9, the call history including a listing of all of the phone calls associated with the phone number that is associated with the selected one of the call log phone calls.

11. The method according to claim 10, the call history listing being in chronological order beginning with the most recent of the phone calls.

12. The method according to claim 9, further comprising providing a menu of user options for one of the phone calls on the call history listing that is selected by the user and performing a function associated with one of the user options selected by the user.

2005209636 17 May 2011

13. The method according to claim 1, further comprising providing a menu of user options for one of the call log phone calls that is selected by a user and performing a function associated with one of the user options selected by the user.

14. A handheld electronic device, comprising:

an input apparatus;

a display;

a processor; and

a memory storing one or more applications executable by the processor, the one or lo more applications being adapted to:

store call related information for a plurality of outgoing and incoming phone calls in the memory, each of the phone calls being associated with a phone number;

compile a list of call log phone calls, each call log phone call including a single history of the phone calls for every one of the phone numbers for which call related information is stored in the memory, wherein the single history of the phone calls for each one of the phone numbers includes a listing of the most recent in time phone calls associated with the one of the phone numbers;

display the list of call log phone calls on the display; and

when a call log phone call is selected from the list of call log phone calls, displaying at least part of the listing for the phone number associated with the selected call log phone call that includes every one of the phone calls having call related information stored in the memory that was placed to and received from the phone number.

15. The handheld electronic device according to claim 14, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log phone calls including a date and time of the one of the call log phone calls.

16. The handheld electronic device according to claim 14, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log phone calls including the phone number associated with the one of the call log phone calls.

17. The handheld electronic device according to claim 14, the memory storing an address book application storing a plurality of contact names, the list including call log information for each one of the call log phone calls, the call log information for the each one of the call log phone calls including at least one of the phone number associated with the one of the call log phone calls and one of the contact names.

18. The handheld electronic device according to Claim 14, the memory storing an address book application storing a plurality of contact names and associated contact phone numbers, the list including call log information for each one of the call log phone calls, the log call log information for the each one of the call log phone calls including:

i. the contact name associated with the phone number associated with the one of the call log phone calls if the phone number associated with the one of the call log phone calls matches one of the contact phone numbers, and

ii. the phone number associated with the one of the call log phone calls if the phone number associated with the one of the call log phone calls does not match one of the contact phone numbers.

19. The handheld electronic device according to claim 14, the list listing the call log phone calls in chronological order beginning with the most recent of the call log phone calls.

20. The handheld electronic device according to claim 14, the one or more applications being further adapted to enable a user to select one of the call log phone calls using the input apparatus and to display on the display portions of the call related information for the selected call log phone call.

21. The handheld electronic device according to claim 20, the portions of the call related information including the date, time, and duration of and the phone number associated with the selected one of the call log phone calls.

22. The handheld electronic device according to claim 14, the one or more applications being further adapted to enable a user to select one of the call log phone calls using the input apparatus and to display on the display a call history of the selected one of the call log phone calls.

2005209636 17 May 2011

23. The handheld electronic device according to claim 22, the call history including a listing of all of the phone calls associated with the phone number that is associated with the selected one of the call log phone calls.

24. The handheld electronic device according to claim 23, the call history listing being in chronological order beginning with the most recent of the phone calls.

25. The handheld electronic device according to claim 23, the one or more applications being further adapted to enable the user to select one of the phone calls on the call history listing using the input apparatus, to display on the display a menu of user options for the selected one of the phone calls, to enable the user to select one of the user options using the input apparatus and to perform a function associated with the selected one of the user options.

26. The handheld electronic device according to claim 14, the one or more applications being further adapted to enable a user to select one of the call log phone calls using the input apparatus, to display on the display a menu of user options for the selected one of the call log phone calls, to enable the user to select one of the user options and to perform a function associated with the selected one of the user options.

27. A method of providing a call log on a handheld electronic device substantially as herein described in any of the embodiments in the detailed description of the invention with reference to the drawings.

2005209636 17 May 2011

28. A handheld electronic device substantially as herein described in any one of the embodiments in the detailed description of the invention with reference to the drawings.

DATED this Seventeenth Day of May, 2011

Research In Motion Limited

Patent Attorneys for the Applicant

SPRUSON & FERGUSON

2005209636 09 Sep 2005

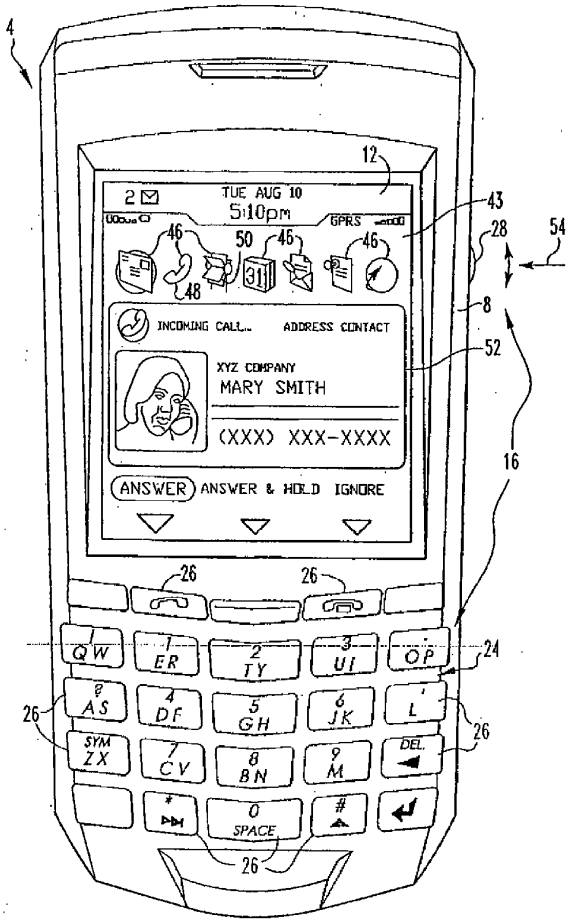

FIG.1

2005209636 09 Sep 2005

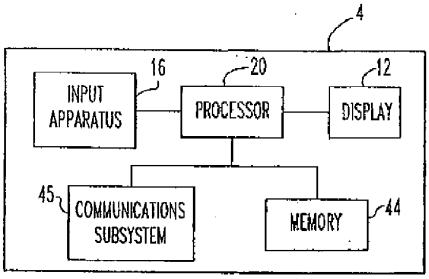

FIG.2

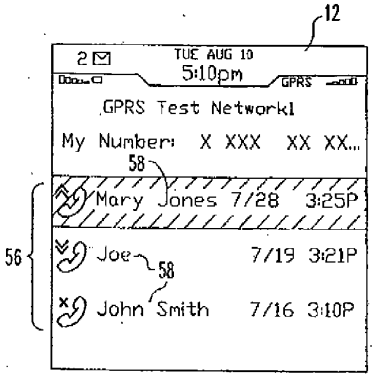

FIG.3

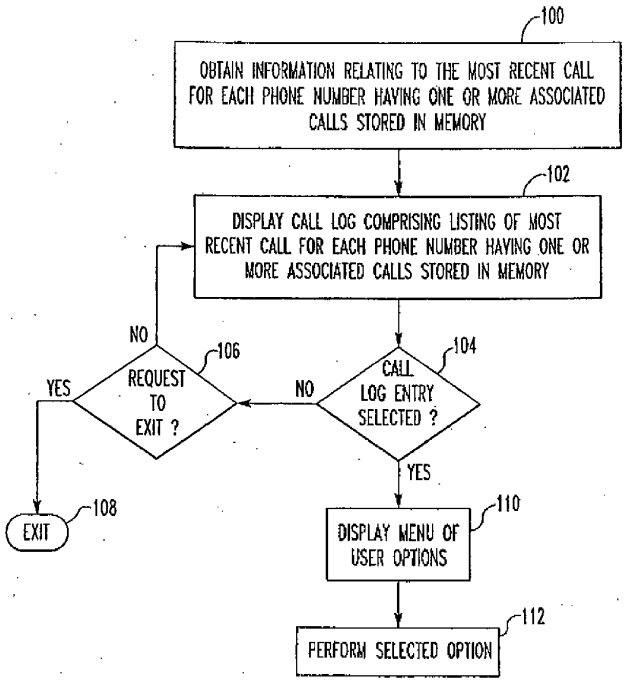
100
OBTAIN INFORMATION RELATING TO THE MOST RECENT CALL FOR EACH PHONE NUMBER HAVING ONE OR MORE ASSOCIATED CALLS STORED IN MEMORY
102
DISPLAY CALL LOG COMPRISING LISTING OF MOST RECENT CALL FOR EACH PHONE NUMBER HAVING ONE OR MORE ASSOCIATED CALLS STORED IN MEMORY
104
CALL LOG ENTRY SELECTED ?
NO
YES
106
REQUEST TO EXIT ?
NO
YES
108
EXIT
110
DISPLAY MENU OF USER OPTIONS
112
PERFORM SELECTED OPTION

FIG.4

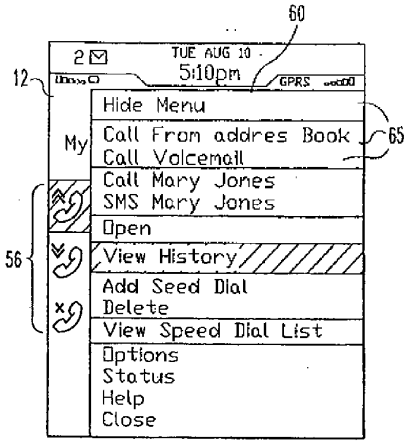
60
2
TUE AUG 10
5:10pm
GPRS
12
Hide Menu
My
Call From addres Book
Call Voicemail
65
Call Mary Jones
SMS Mary Jones
Open
56
View History
Add Seed Dial
Delete
View Speed Dial List
Options
Status
Help
Close

FIG.5

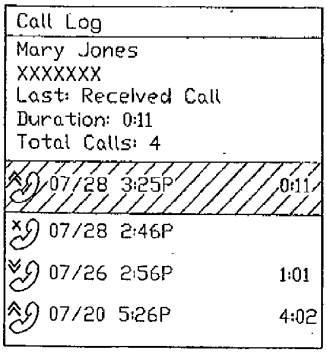
Call Log
Mary Jones
XXXXXXX
Last: Received Call
Duration: 0:11
Total Calls: 4
07/28 3:25P 0:11
07/28 2:46P
07/26 2:56P 1:01
07/20 5:26P 4:02

FIG.7

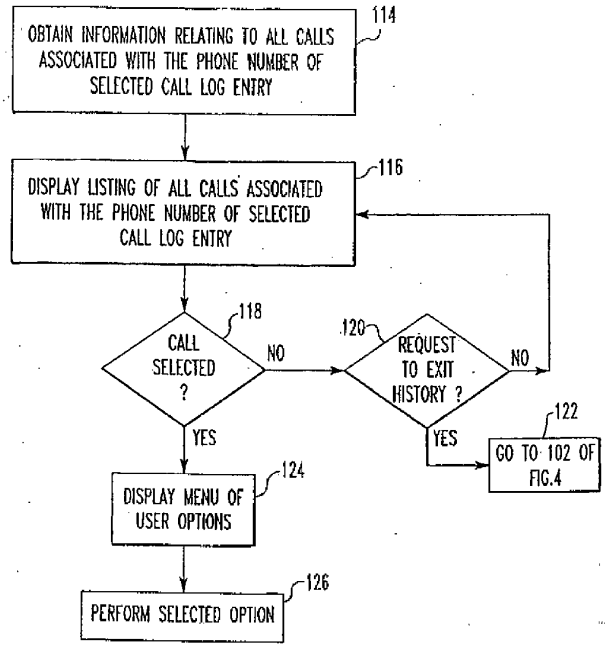
OBTAIN INFORMATION RELATING TO ALL CALLS ASSOCIATED WITH THE PHONE NUMBER OF SELECTED CALL LOG ENTRY
114
DISPLAY LISTING OF ALL CALLS ASSOCIATED WITH THE PHONE NUMBER OF SELECTED CALL LOG ENTRY
116
CALL SELECTED ?
118
NO
REQUEST TO EXIT HISTORY ?
120
NO
YES
YES
GO TO 102 OF FIG.4
122
DISPLAY MENU OF USER OPTIONS
124
PERFORM SELECTED OPTION
126

FIG.6