



(51) International Patent Classification:
G06F 3/048 (2013.01)

(21) International Application Number:
PCT/CN2017/093880

(22) International Filing Date:
21 July 2017 (21.07.2017)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **ORANGE** [FR/FR]; 78, rue Olivier de Serres
75015 Paris (FR).

(72) Inventor; and

(71) Applicant (for US only): **TOURNEUR, Michael** [FR/CN];
Orange Labs International Centers Beijing, 23F, Tower A,
Beijing Global Trade Center, 36 North Third Ring Road
East Dongcheng District, Beijing 100013 (CN).

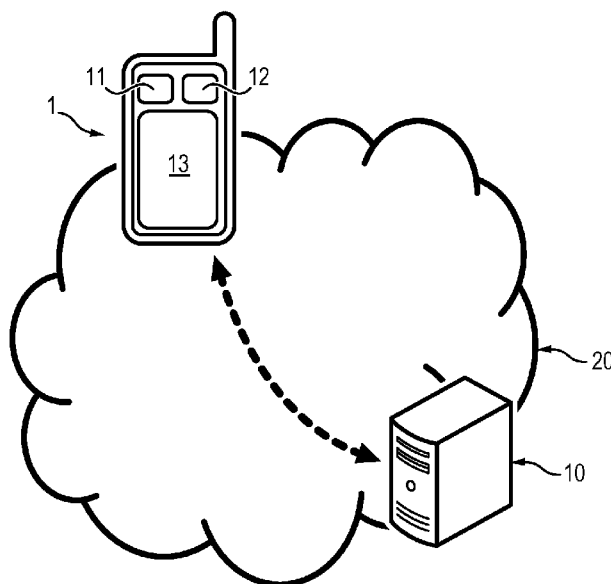
(74) Agent: **WAN HUI DA INTELLECTUAL PROPERTY AGENCY**; Yiyuan Office Building, Friendship Hotel, No. 1, Zhongguancun Street South, Haidian District, Beijing 100873 (CN).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

(54) Title: METHOD FOR HANDLING ON A MOBILE TERMINAL A LIST OF CONTENTS EACH ASSOCIATED TO A SUB-CONTENT

FIG. 2



(57) Abstract: The present invention relates to a method for handling on a mobile terminal (1) a list of contents each associated to a sub-content, the list of content and each sub-content being displayable on a touch-sensitive screen (13) of the terminal (1), the method comprising performing by a processing unit (11) of the terminal (1) : -displaying (a) on the screen (13) a window containing the sub-content associated to a first content selected by a user from said list of contents; -detecting (b) a predetermined touch gesture by the user on the screen (13); and -when a predetermined touch gesture has been detected, displaying (c) on the screen (13), over the displayed window, a pop-up window containing a sub-list of contents from said list of contents.



TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

Method for handling on a mobile terminal a list of contents each associated to a sub-content

FIELD OF THE INVENTION

5

The field of this invention is that of mobile terminals.

More particularly, the invention relates to a method for handling on a mobile terminal a list of contents each associated to a sub-content.

10 BACKGROUND OF THE INVENTION

Most of mobile applications are designed to provide the user with a list of contents as possible results in response to a query of various types (a search using keywords, a request for possibilities, etc.). For instance, the
15 contents may be e-mails of the user, nearby restaurants, second-hands goods, products of a brand, apartments to rent, geographical locations available for weather forecasting, vacant jobs, etc.

As depicted by **figure 1** (example from “Le Bon Coin” application), the different contents are displayed as a list of rows in a result page, each
20 row being selectable and redirecting to a corresponding sub-content to be displayed (generally a more detailed page about the content).

Thus, when the user selects a row corresponding to a first content, it generates and displays a new window containing in full the detailed page about this first content. If the user wants to check a content of another row,
25 he has to press a “back” button to revert to the previous window of the result page displaying the list of rows and then select the other row to see the associated sub content in a new window, etc.

Such re-selection process is not user-friendly, as it needs back and forth operations/clicks in order to check different contents. Moreover, it
30 requires the application to close and rebuild a window each time the user wants to see another content, which is resource consuming.

Alternatively to having distinct windows, some applications propose simultaneously displaying the list of result contents on a part of the window (for instance the left half), and the sub-content associated to a selected content on another part of the window (for instance the right half). In other words, the window contains both the list of contents and the sub-content associated to one of the contents. At each time a new content is selected, only the right part is updated.

In that case, there is no need for back and forth operations, and the same window can be kept open, but due to the small size of mobile terminal, the information displayable by each area is very limited, and such arrangement of the interface is not comfortable for the user.

If the application is a web browser, some operating systems allow multiple "tabs" corresponding to different windows. While only a single tab is displayable at once by the mobile terminal, other tabs can remain in the background (with windows already built but not displayed), and the user may switch from a tab to another to change the window currently displayed.

Therefore, it is possible to open tabs for one of more sub contents while keeping the window of the result page in a first tab.

However, such solution requires keeping open a tab for the result page, which consumes resources. Besides, while it avoids the need for back and forth operations as described previously, such a solution still requires pressing a button for displaying a "tab selection" window, and then selecting another tab, which is not more user-friendly.

There is therefore a need for addressing these issues and proposing a way of displaying a list of contents and their associated sub-contents which is efficient both in terms of hardware resource consumption and for the user.

SUMMARY OF THE INVENTION

30

For these purposes, the present invention provides a method for handling on a mobile terminal a list of contents each associated to a sub-

content, the list of content and each sub-content being displayable on a touch-sensitive screen of the mobile terminal, the method comprising:

- displaying (a) on the screen a window containing the sub-content associated to a first content selected by a user from said list of contents;
- detecting (b) a predetermined touch gesture by the user on the screen; and
- when a predetermined touch gesture has been detected, displaying (c) on the screen, over the displayed window, a pop-up window containing a sub-list of contents from said list of contents.

As it will be shown, thanks to the pop-up there is no more need for reverting to the window containing the list of contents (the result page): a direct switch from a sub-content to another is possible, without having to build a new window. Furthermore, this pop-up can be opened and used in a one-gesture operation thanks to the alternate touch.

Preferred but non limiting features of the present invention are as follow:

- the method further comprises:
 - detecting (d) a selection by the user of a second content from the displayed sub-list of contents; and
 - replacing (e), in the displayed window, the sub-content associated with the first content with a sub-content associated with the selected second content;
- the window comprises a layout and at least one container element adapted to contain a sub-content, and wherein, during the replacing step, the layout is kept unmodified while the sub-content associated with the second content replaces the sub-content associated with the first content in the container element;

- a graphic user interface is displayed on the screen, said graphic user interface comprising a back button for reverting to a previously displayed window when touched by the user according to a first touch gesture, the predetermined touch gesture being a second touch gesture, distinct from
5 the first touch gesture, on said back button;
- said predetermined touch gesture is a touch gesture among a swipe down touch gesture, a long duration touch gesture, and a high force touch gesture;
- said second content is selected from said sub-list of the list of contents
10 at step (b) by releasing the touch of the screen;
- said sub-list of said list of contents does not comprise the first content;
- said sub-list of said list of contents does not comprise any content already selected;
- step (b) comprises analyzing the first content so as to search for a
15 contextual parameter associated with the first content; said sub-list of the list of contents being function of the result of the search for a contextual parameter associated with the first content;
- the method comprises previously displaying (a0) on the screen a window containing the list of contents for selection (b0) by the user;
- 20 • the method further comprises :
 - detecting a touch release action on the screen after the predetermined touch gesture; and
 - when said touch release action occurs outside of the displayed pop-up window on the screen, closing the pop-up window.

25

In a second aspect, the invention provides a mobile terminal comprising a processing unit and a touch-sensitive screen, the processing unit being configured to:

- display on the screen a window containing the sub-content
30 associated to a first content selected by a user from a list of contents each associated to a sub-content;

- detect a predetermined touch gesture by the user on the screen;
- when a predetermined touch gesture has been detected, display on the screen, over the displayed window, a pop-up window containing a sub-list of contents from said list of contents.

5

According to a third and a fourth aspects, the invention provides a computer program product, comprising code instructions for executing a method according to the first aspect for handling on a mobile terminal a list of contents each associated to a sub-content; and a computer-readable
10 medium, on which is stored a computer program product comprising code instructions for executing a method according to the first aspect for handling on a mobile terminal a list of contents each associated to a sub-content.

15 BRIEF DESCRIPTION OF THE DRAWINGS

The above and other objects, features and advantages of this invention will be apparent in the following detailed description of an illustrative embodiment thereof, which is to be read in connection with the
20 accompanying drawings wherein:

- figure 1, already discussed, represents an example of a result page displayed in a window;
- figure 2 illustrates an example of architecture in which the method according to the invention is performed;
- 25 - figure 3 illustrates an embodiment of a method for handling on a mobile terminal a list of contents each associated to a sub-content according to the present invention; and
- figure 4 represents examples of displays obtained when
30 performing an embodiment of the method according to the invention.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Architecture

5 The present invention relates to a method for operating a mobile terminal 1 as represented by **figure 2**. More precisely, the present method is for handling on the mobile terminal 1 a list of contents. Said list of contents is provided for instance as a result of a query.

 The mobile terminal 1 is a device comprising a processing unit 11,
10 i.e. a CPU (one or more processors), a memory 12 (for example flash memory), and a touch sensitive screen 13 for user interface. The memory 12 is in particular for storing applications, which can be of various types, and data. The terminal 1 also typically comprises a battery, in particular a rechargeable battery (for instance lithium polymer), for powering the
15 processing unit 11 and other units.

 The terminal 1 may further comprise other units such as a location unit for providing location data representative of the position of the terminal 1 (using for example GPS, network triangulation, etc.), a communication unit for connecting (in particular wirelessly) the terminal 1 to a network 20 (for
20 example WiFi, Bluetooth, and preferably a mobile network, in particular a GSM/UMTS/LTE network, see below), etc.

 Indeed, the terminal 1 is typically a smartphone, a tablet computer, a laptop, etc. In the following description the example of a smartphone will be used.

25 The network 20 may connect the terminal 1 to a server 10, for instance for providing the contents and sub-contents to the terminal 1 (an application installed on the terminal may simply transmit a query for contents to a server 10 and then receive the results from this server 10).

30 *Back button*

The present method is performed by the processing unit 11 of the terminal 1, and is implemented either by an application of the terminal 1 intended to handle lists of contents (a messaging application such as a SMS client or an e-mail client, a shopping application, etc.), a dedicated software application, or directly by the operating system.

As explained, each content of the list is associated to a sub-content, which is typically a more detailed version of the content (generally with images, a text, etc.).

The list of contents, the contents and the sub-contents associated to these contents are displayable on the touch-sensitive screen 13 of the mobile terminal 1 in windows. These windows are preferably covering most of the screen, i.e. full screen at the exception of minor interface areas (the interface generally presents panels with buttons at the top or the bottom of the screen 13), meaning that either the list of contents, or one of the sub-contents corresponding a content is displayed at once.

In other words, the windows are displayed within a graphic user interface provided with (at least) a command button. This button is preferably being touchable by the user according to a first touch gesture and a second touch gesture.

The first touch gesture is typically a “normal touch gesture”, i.e. a simple touch gesture (brief, normal pressure and motionless touch gesture) for pressing the button, i.e. a click. The second touch gesture is typically an “alternate touch gesture” distinct from the first touch gesture, i.e. more than a simple touch gesture and in particular either a swipe touch gesture, especially a swipe down touch gesture (i.e. touching while moving the finger toward the bottom of the screen), a long duration touch gesture (with respect to the duration of a normal touch gesture, for instance more than two seconds), or a high force touch gesture (some touchscreens includes a “3D touch” technology allowing different pressure levels).

Said command button is preferably a back button, generally located at the upper left of the screen, as illustrated by the example of display (a) in **figure 4**. The back button allows reverting to the previously displayed

window when touched by the user according to the first touch gesture (the normal touch gesture).

It is to be noted that another command button may be used, but the back button is preferred as it is the button instinctively used by the user when he wants to change the displayed sub-content.

Method

We refer now to **figure 3** which illustrates an embodiment of the method according to the present invention.

This method can typically start when, after having displayed a window (referred to as “result window” for simplicity) containing the list of contents on the screen 13 (step a0, also illustrated by the example of display (a0) in figure 4), the user selects a first content $CONT_1$ by touching this first content on the screen 13 (step b0). However, other ways to select this first content can be contemplated without making a selection in a displayed list of contents.

After this user’s selection, a new window (referred to as “detailed window” for simplicity) containing the sub-content $SUB-CONT_1$ associated to the first content $CONT_1$ selected by the user from said list of contents is displayed on the screen 13 (step a). This is illustrated by the example of display (a) in figure 4.

At this point, in the prior art, if the user wants to select another content so as to display on the screen 13 the sub-content associated to this other content, he has to trigger the display of the previously shown result window containing the full list of contents, typically by touching on screen 13 a dedicated button for that purpose, i.e. the “back” button according to a normal touch gesture, so as to revert to this previously shown result window and select on this window the other content.

To the contrary, in the present method, a predetermined touch gesture of the user is detected on the screen 13 (step b), such a predetermined touch being specifically designed for triggering the display of

a sub-content list as explained afterwards rather than building back the previously displayed result window containing the list of contents.

Such a predetermined touch gesture can be defined by a predetermined touch location on the screen, e.g. at a command button of a graphic user interface (preferably the “back” button), and/or as a second touch gesture as described previously (preferably a swipe down gesture) on the graphic user interface, preferably a combination of the predetermined touch location on the screen (e.g. on the “back” button) and the second touch gesture (e.g. a swipe down gesture).

In other words, the predetermined touch gesture is detected when located on the predetermined location and/or done according to the second touch gesture. As explained, such a predetermined touch gesture is thus an alternate touch gesture when compared to a first touch gesture as previously described (i.e. a normal touch gesture) on the back button.

When such a predetermined touch gesture is detected by the mobile terminal, a sub-list of contents among the contents of the previously mentioned list is displayed (step c), to enable the selection by the user of another content $CONT_i$. This sub-list is displayed in a pop-up window, displayed over the current detailed window containing the first sub-content $CONT_1$, rather than by rebuilding a new window. This is illustrated by example of display (c) of figure 4.

In the particular case where the command button is the back button of the graphic user interface, e.g. located at the upper left of screen 13, the pop-up window appears just below the button, as illustrated in the example of display (a) of figure 4.

The sub-list is preferably limited to a few (for instance five) items of the original list of contents, so as to save screen space and enable direct switching from one detailed window to another (i.e. without back and forth operation through the result window).

Once the pop-up window containing the sub-list of contents is displayed, a selection by the user of a second content from this sub-list can be detected (step d).

The selection of the second content $CONT_i$ may be done with a one-gesture operation for a maximum user-friendliness: said second content is preferably selected from said sub-list of the list of contents at step (b) by releasing the touch of the screen 13 on the second content. Thus, in particular if the second touch gesture is a swipe down gesture, this movement brings the user finger above the pop-up window. He just has to lift the finger (i.e. release the touch) when reaching the content that he wants to select as second content. In other words, the user swipes down the pop-up window list, maintain the pressure while moving to the content to select, and release it. Other alternate touch gestures (long duration, etc.) also enable a one-gesture operation.

In a final step (e), similar to step (c), the sub-content $SUB-CONT_i$ associated to the second content $CONT_i$ selected the user from said sub-list of contents is displayed by the screen 13. Here, this is done by replacing, in the displayed detailed window containing the sub-content associated with the first content, this sub-content by the sub-content associated with the selected second content.

In other words, the detailed window (showing the sub-content) is kept open through the whole process (i.e. from step (a)), the sub-content associated with the first content being just replaced by the sub-content associated with the second content, thereby avoiding closing then rebuilding this detailed window (when closing the detailed window like it is the case in the prior art, more resources of the terminal 1 are requested in order to rebuild the layout of the window in parallel of loading content inside). Having the sub-list of contents displayed in the pop-up window allows using efficiently again the detailed window without changing its layout.

As the detailed window is kept open rather than closed, this detailed window is advantageously configured to contain containers which are configurable with image source, text, colors, etc. The detailed window may thus be updated by simply replacing what is in the containers already existing.

Steps (b) to (e) may then be repeated again, so as to explore a plurality of contents of the list (by selecting a third, a fourth, etc. content using the pop-up window). When the user is done, he can simply touch the command button according to a normal touch for reverting (if the button is the back button) to the initial result window containing the list of contents (for instance for modifying the query in order to get a new list of results).

In a specific embodiment, once the pop-up window containing the sub-list of contents is displayed, the user may wish to cancel this pop-up window without selecting a content in this pop-up window, for instance if there is undesired content displayed in this pop-up window.

In order to enable such a pop-up window cancellation, if a touch release action is detected on the touchscreen, after the detection of the predetermined touch gesture which triggered the display of the pop-up window, and if this touch release action occurs outside of the pop-up window on the screen, the pop-up window is closed.

For instance, the user may start to perform a swipe down touch gesture, and if he changes his mind, instead of releasing the touch at another content he releases the touch outside of the pop-up window, so as very easily to close this pop-up window and to revert to the already displayed window (containing the current sub-content).

Sub-list

As explained, the sub-list of contents is preferably limited to a few items for improving visibility and ergonomics. To this end, the initial list of contents may advantageously be filtered so as obtain the sub-list. If steps (b) to (e) are repeated, the sub-list may be filtered further into a new (and shorter) sub-list, etc.

Advantageously, thanks to such a filtering step, the sub-list of contents displayed in step (c) does not comprise the selected first content, whose sub-content is displayed in step (a). Therefore, should steps (b) to (e) be repeated, the sub-list of said list of contents advantageously does not

comprise any content already selected. Thus, the user is only proposed contents for which he has not yet been shown the corresponding sub-content. This case is illustrated in example of display (c) of figure 4.

In a preferred embodiment, alternatively or in addition, the first
5 content $CONT_1$ is analyzed so as to search for a contextual parameter associated with this first content. In that case, the sub-list of contents is built depending on this contextual parameter associated with the first content. In other words, the sub-list can be based on a similar current context, i.e. the context of the first content.

10 For example, if in the case shown in the example of display (a0) of figure 4, the content of the first row is related to a pen, whereas contents of the second, third and fourth rows are related to glasses, when user selects the second row, the sub-list will comprise contents of third and fourth rows, but neither the content of the first row, because it is not related to glasses,
15 nor the content of the second row because it has already been selected.

Contextual parameters are "searched for", meaning that the processing unit 11 attempts at determining them, but they are not necessarily found, for instance if the text of the first content is very short and not meaningful. The analysis performed on the first content is typically a
20 syntactical analysis on a text of the sub-content associated with the content (which is more detailed and thus "richer"). By syntactical analysis, it is meant recognition of given words, i.e. "syntactical items" of the text, having a meaning. Syntactical analysis is well known by the skilled person and can be performed simply by parsing the text of the sub-content into a sequence of
25 syntactical items.

Terminal and computer program

The present invention concerns thus a mobile terminal 1 comprising a
30 processing unit 11 and a touch-sensitive screen 13, for performing the method according to the first aspect. As already indicated, this terminal 1 may also comprise a memory 12.

The aforementioned processing unit 11 is in particular configured to implement, preferably after selection by the user of a first content in a list of content displayed on the screen 13 (each content being associated to a sub-content, the list of content and each sub-content being displayable on the screen 13 of the mobile terminal 1), the steps of:

- display on the screen 13 a window containing the sub-content associated to a first content selected by a user from the list of contents;
- detect a predetermined touch gesture (preferably a second touch gesture such as a swipe down gesture) by the user on the screen;
- when a predetermined touch gesture has been detected, display on the screen 13, over the displayed window, a pop-up window containing a sub-list of contents from said list of contents.

The invention further proposes a computer program product, comprising code instructions for executing (in particular with a processing unit 11 of the terminal 1) the previously described method, as well as a computer-readable medium (in particular a memory 12 of the terminal 1), on which is stored a computer program product comprising code instructions for executing said method. In particular, this computer program product may correspond to the possibly dedicated software application discussed previously, and/or a general application providing list of contents.

CLAIMS

1. A method for handling on a mobile terminal (1) a list of contents each associated to a sub-content, the list of contents and the sub-contents being displayable on a touch-sensitive screen (13) of the mobile terminal (1), the method comprising:

- displaying (a) on the screen (13) a window containing the sub-content associated to a first content selected by a user from said list of contents;
- 10 - detecting (b) a predetermined touch gesture by the user on the screen (13); and
- when a predetermined touch gesture has been detected, displaying (c) on the screen (13), over the displayed window, a pop-up window containing a sub-list of contents from said list of contents;
- 15

2. A method according to claim 1, further comprising:

- detecting (d) a selection by the user of a second content from the displayed sub-list of contents; and
- 20 - replacing (e), in the displayed window, the sub-content associated with the first content with a sub-content associated with the selected second content.

3. A method according to claim 2, wherein the window comprises a layout and at least one container element adapted to contain the sub-content, and wherein, during the replacing step, the layout is kept unmodified while the sub-content associated with the second content replaces the sub-content associated with the first content in the container element.

4. A method according to claim 1 to 3, wherein a graphic user interface is displayed on the screen (13), said graphic user interface comprising a back button for reverting to a previously displayed window when touched by the user according to a first touch gesture, the
5 predetermined touch gesture being a second touch gesture, distinct from the first touch gesture, on said back button.

5. A method according to any one of claims 1 to 4, wherein said predetermined touch gesture is a touch gesture among a swipe down
10 touch gesture, a long duration touch gesture and a high force touch gesture.

6. A method according to claim 5, wherein said second content is selected from said sub-list of contents at step (d) by releasing the touch of the screen (13)
15

7. A method according to any one of claims 1 to 6, wherein said sub-list of contents does not comprise the first content.

8. A method according to claim 7, wherein said sub-list of
20 contents does not comprise any content already selected.

9. A method according to any one of claims 1 to 8, further comprising analyzing the first content so as to search for a contextual parameter associated with the first content, said sub-list of contents being
25 determined as a function of said contextual parameter associated with the first content.

10. A method according to any one of claims 1 to 9, comprising previously displaying (a0) on the screen (13) a window
30 containing the list of contents for selection (b0) by the user.

11. A method according to any one of claims 1 to 10, further comprising:

- detecting a touch release action on the screen (13) after the predetermined touch gesture; and
- 5 - if said touch release action occurs outside of the displayed pop-up window on the screen, closing the pop-up window.

12. A mobile terminal (1) comprising a processing unit (11) and a touch-sensitive screen (13), the processing unit (11) being configured to:

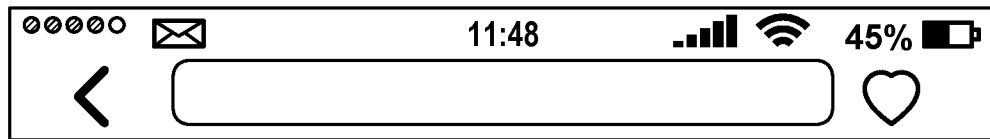
- display on the screen (13) a window containing the sub-content associated to a first content selected by a user from a list of contents each associated to a sub-content;
- detect a predetermined touch gesture by the user on the screen (13);
- 15 - when a predetermined touch gesture has been detected, display on the screen (13), over the displayed window, a pop-up window containing a sub-list of contents from said list of contents.

13. A computer program product, comprising code instructions for executing a method according to any one of claims 1 to 11 for handling on a mobile terminal (1) a list of contents each associated to a sub-content, when executed by a computer.

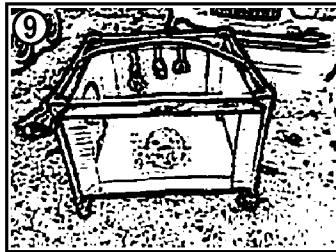
14. A computer-readable medium, on which is stored a computer program product comprising code instructions for executing a method according to any one of claims 1 to 11 for handling on a mobile terminal (1) a list of contents each associated to a sub-content.

1/4

FIG. 1

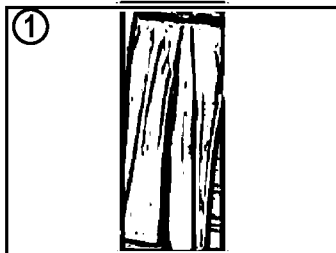


2 030 662 annonces

**Parc Sophie la girafe**

Equipement bébé

Plouézec / Côtes-d'Armor

45 €*Aujourd'hui, 16:22***Pantalon rose « Daniel HECHTER »**

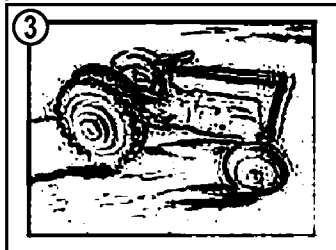
Vêtements

Le Mesnil-Saint-Denis / Yvelines

5 €*Aujourd'hui, 16:22***Terrain à construire**

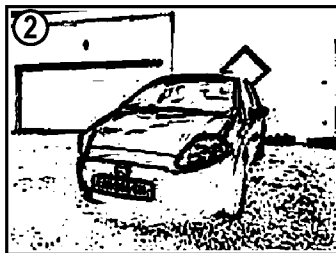
Ventes immobilières

Igornay / Saône-et-Loire

15 000 €*Aujourd'hui, 16:22***Tracteur Massey Ferguson**

Jeux & Jouets

Saint-Pargoire / Hérault

10 €*Aujourd'hui, 16:22***PUNTO GRANDE DIESEL 2010 106000 km**

Voitures

Vanclans / Doubs

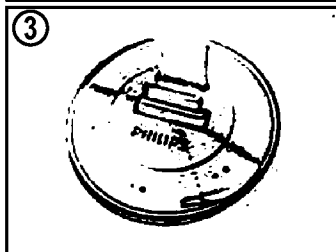
2 500 €*Aujourd'hui, 16:22***Enceinte Phillips pour IPHONE 4**

Image & Son

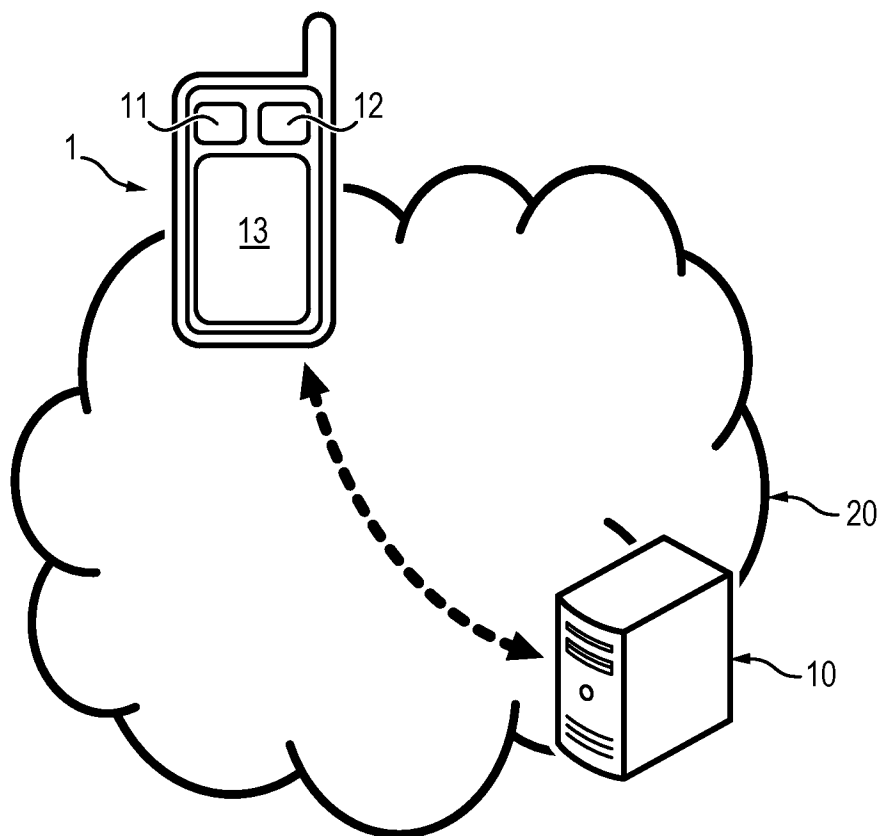
Amiens / Somme

5 €*Aujourd'hui, 16:22***Trench / Veste**

Vêtements

2/4

FIG. 2



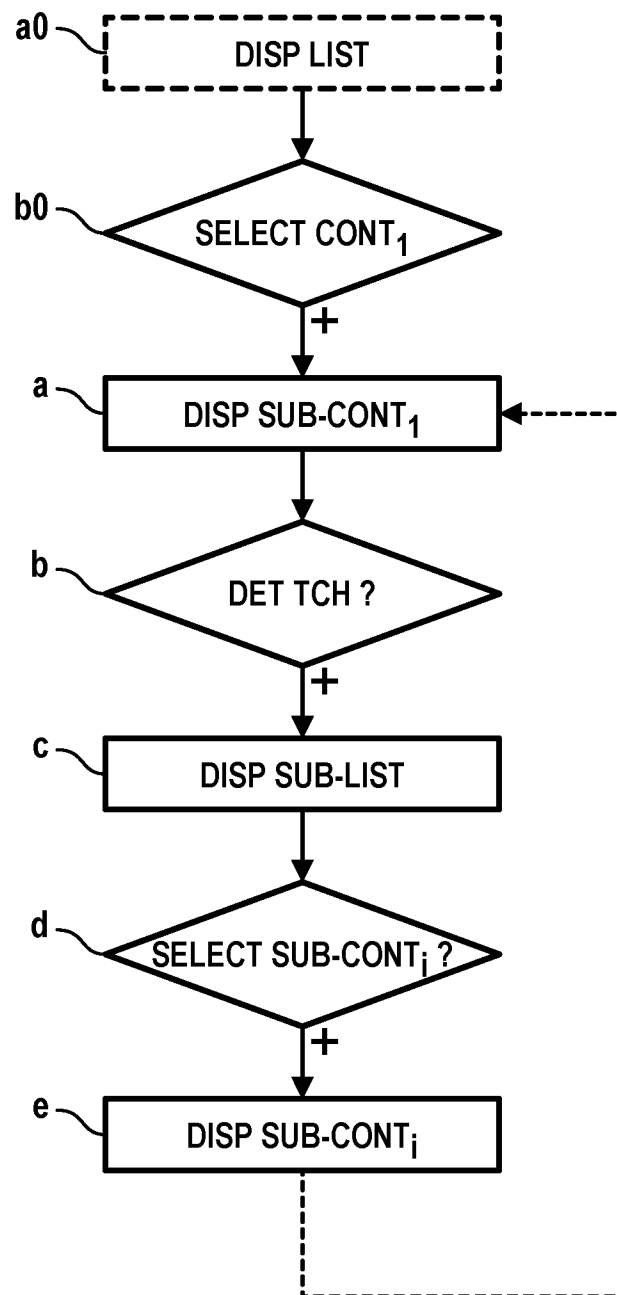
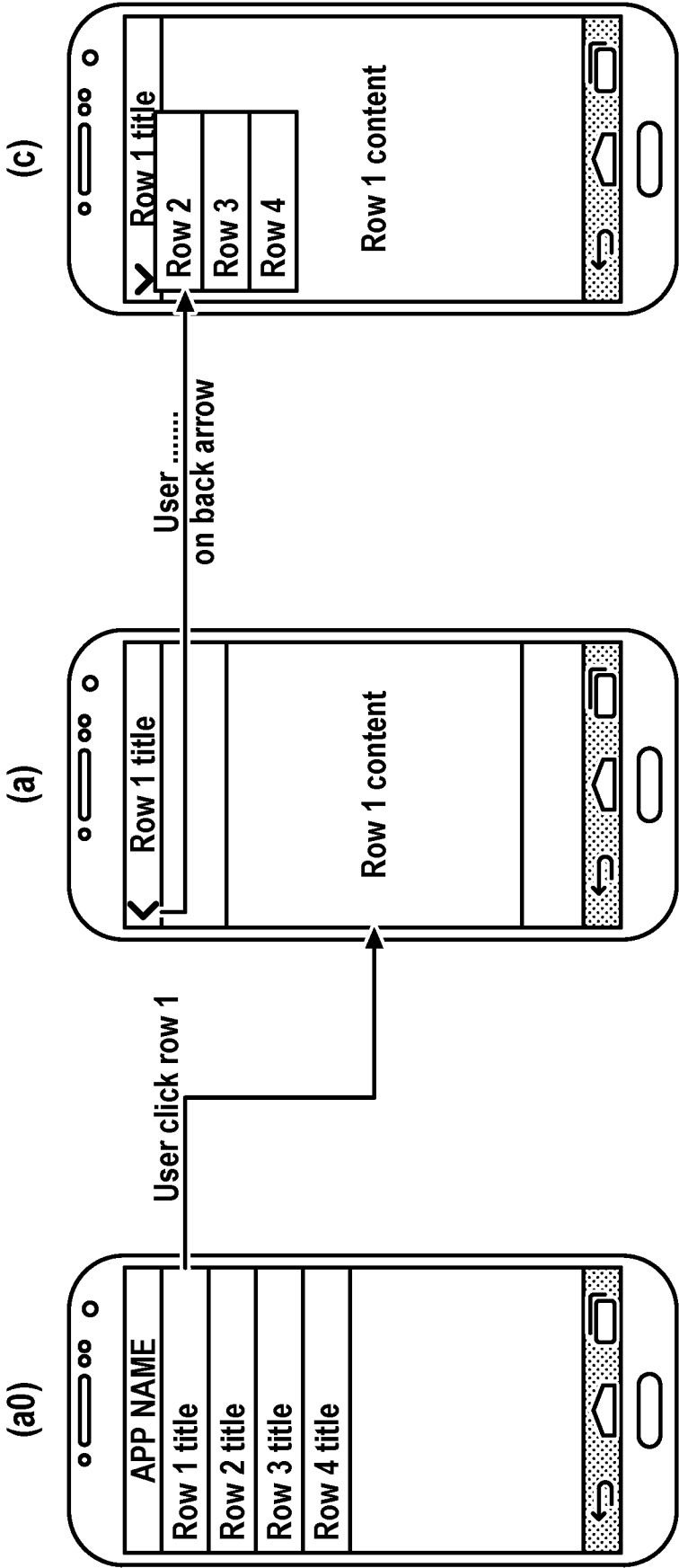
3/4**FIG. 3**

FIG. 4



INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2017/093880

A. CLASSIFICATION OF SUBJECT MATTER

G06F 3/048(2013.01)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)

G06F; H04M 1/

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI,SIPOABS,CNABS,CNXT,CNKI: list, content, object, item, element, sub-, popup window, popup view, touch, gesture, action, select, back,orange, LG, Samsung, apple, huawei, alibaba, baidu

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011157046 A1 (SEONMI LEE ET AL.) 30 June 2011 (2011-06-30) paragraphs [0104]-[0109] and figures 12A-12D	1-14
Y	CN 106445956 A (SUNING COMMERCE GROUP CO., LTD.) 22 February 2017 (2017-02-22) paragraphs [0077]-[0095] and figure 3	1-14
A	CN 103257795 A (BAIDU ON-LINE NETWORK TECHNOLOGY CO., LTD.) 21 August 2013 (2013-08-21) the whole document	1-14
A	US 2011107255 A1 (SAMSUNG ELECTRONICS CO., LTD.) 05 May 2011 (2011-05-05) the whole document	1-14
A	CN 102428429 A (SAMSUNG ELECTRONICS CO., LTD.) 25 April 2012 (2012-04-25) the whole document	1-14
A	CN 103425245 A (SAMSUNG ELECTRONICS CO., LTD.) 04 December 2013 (2013-12-04) the whole document	1-14



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

“A” document defining the general state of the art which is not considered to be of particular relevance

“E” earlier application or patent but published on or after the international filing date

“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

“O” document referring to an oral disclosure, use, exhibition or other means

“P” document published prior to the international filing date but later than the priority date claimed

“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

“&” document member of the same patent family

Date of the actual completion of the international search

24 January 2018

Date of mailing of the international search report

23 March 2018

Name and mailing address of the ISA/CN

STATE INTELLECTUAL PROPERTY OFFICE OF THE
P.R.CHINA
6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing
100088
China

Authorized officer

ZHANG,Yan

Facsimile No. (86-10)62019451

Telephone No. (86-10)62411679

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2017/093880

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2011157046	A1	30 June 2011	US	2017003867	A1	05 January 2017
				CN	102117178	B	17 July 2013
				CN	102117178	A	06 July 2011
				KR	101626621	B1	01 June 2016
				US	2015012877	A1	08 January 2015
				US	8860674	B2	14 October 2014
				US	9471216	B2	18 October 2016
				KR	20110078008	A	07 July 2011
CN	106445956	A	22 February 2017	None			
CN	103257795	A	21 August 2013	None			
US	2011107255	A1	05 May 2011	KR	20110047422	A	09 May 2011
				KR	1756696	B1	11 July 2017
				KR	20160042416	A	19 April 2016
CN	102428429	A	25 April 2012	US	2010298034	A1	25 November 2010
				KR	101620874	B1	13 May 2016
				KR	20100124439	A	29 November 2010
				US	8412278	B2	02 April 2013
				CN	102428429	B	11 February 2015
				WO	2010134710	A2	25 November 2010
				WO	2010134710	A3	17 February 2011
CN	103425245	A	04 December 2013	EP	2667285	A2	27 November 2013
				WO	2013176490	A1	28 November 2013
				US	2013318437	A1	28 November 2013
				EP	2667285	A3	30 March 2016
				KR	20130130636	A	02 December 2013
				AU	2013205980	A1	12 December 2013
				KR	20130130616	A	02 December 2013
				JP	2015527626	A	17 September 2015