

# **EXHIBIT C**



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(54) **USER INTERFACE FOR SELECTING A PHOTO TAG**

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**G09G 5/00** (2006.01)

(52) **U.S. Cl.** ..... **345/156**; 345/594; 715/763

(58) **Field of Classification Search** ..... 345/473;  
715/838, 839; 455/412.1

See application file for complete search history.

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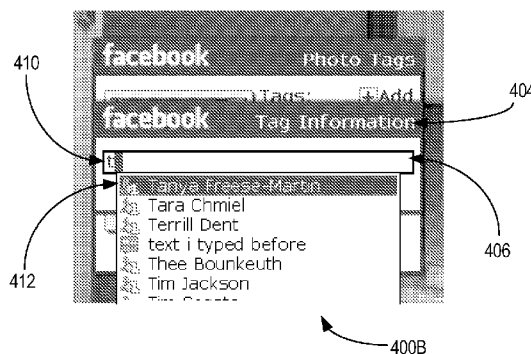
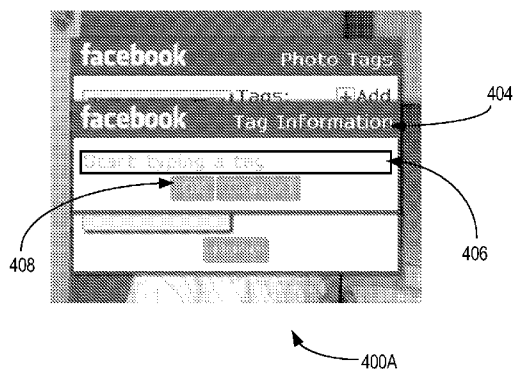
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(57) **ABSTRACT**

There is disclosed a user interface for selecting a photo tag. In an embodiment, the user interface embodies a method of selecting a photo tag for a tagged photo, comprising: providing a tag entry field for entering a photo tag; in dependence upon a string entered by a user, displaying in a matching tag list any tags from one or more selected tag sources matching the entered string. The method may further comprise displaying a tag type for each tag appearing in the matching tag list. The method may further comprise allowing user selection of a tag in the matching tag list to complete the tag entry field.

**20 Claims, 10 Drawing Sheets**



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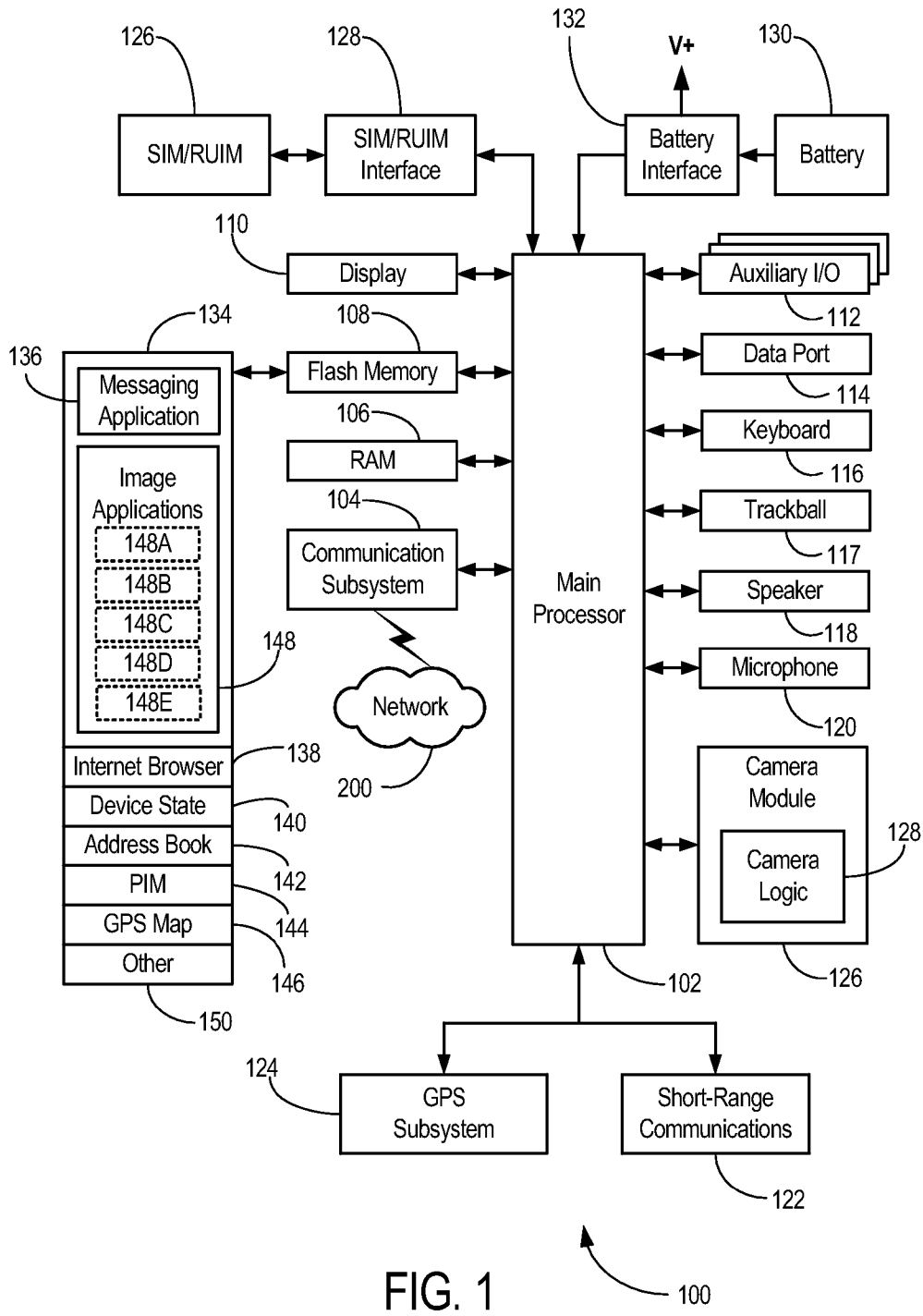


FIG. 1

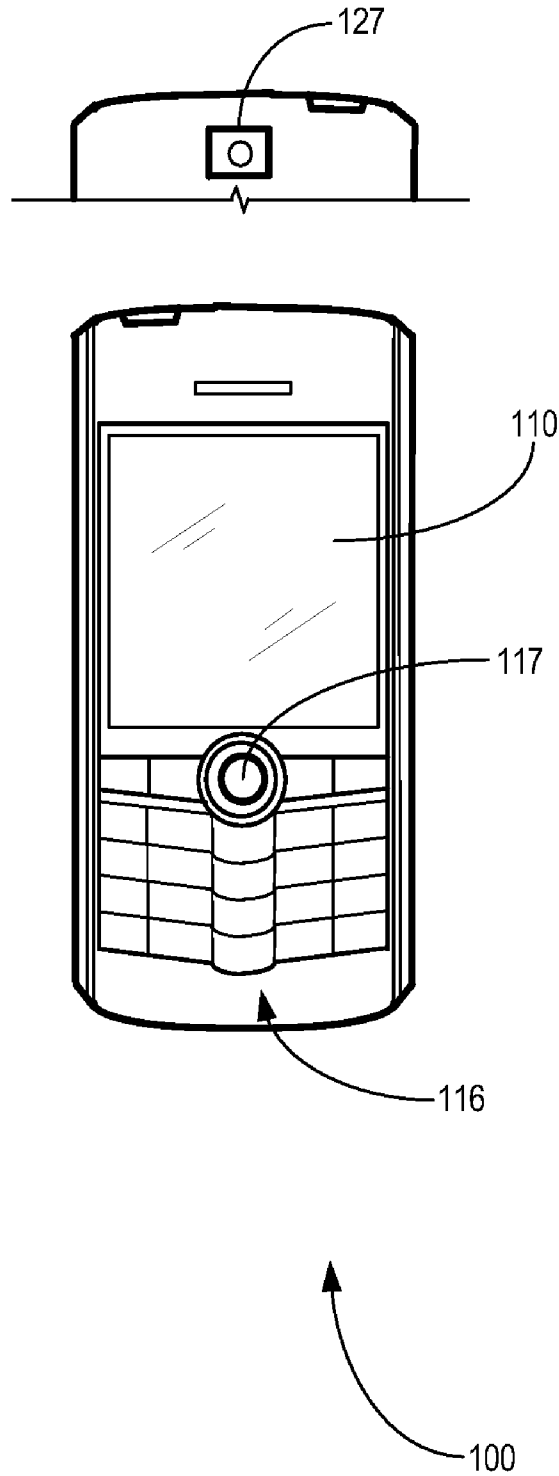


FIG. 2

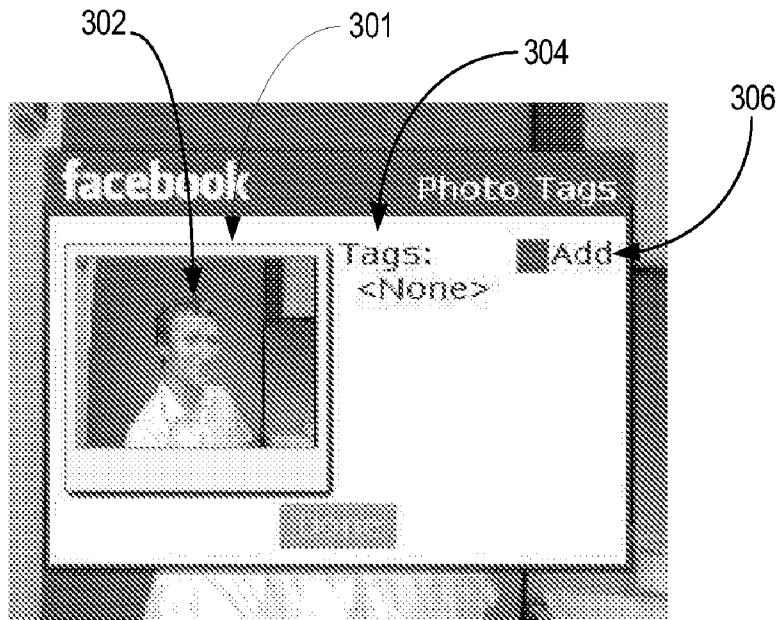


FIG. 3A

300A

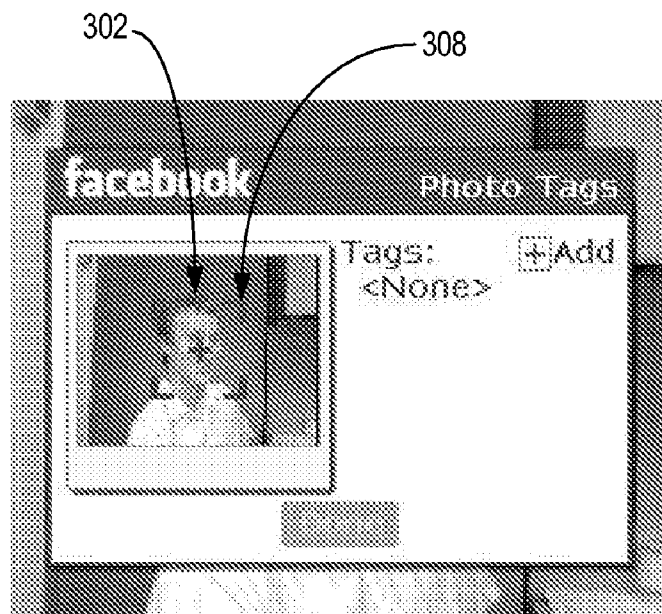


FIG. 3B

300B

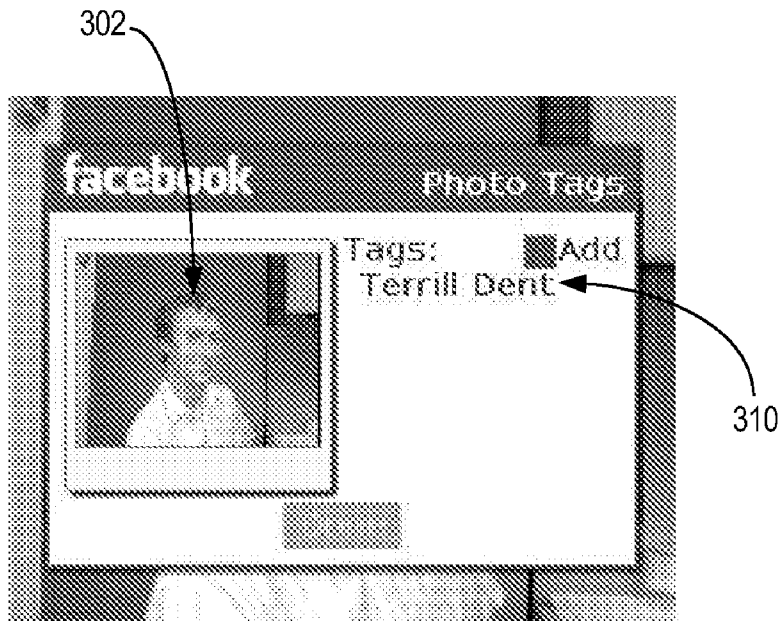


FIG. 300C

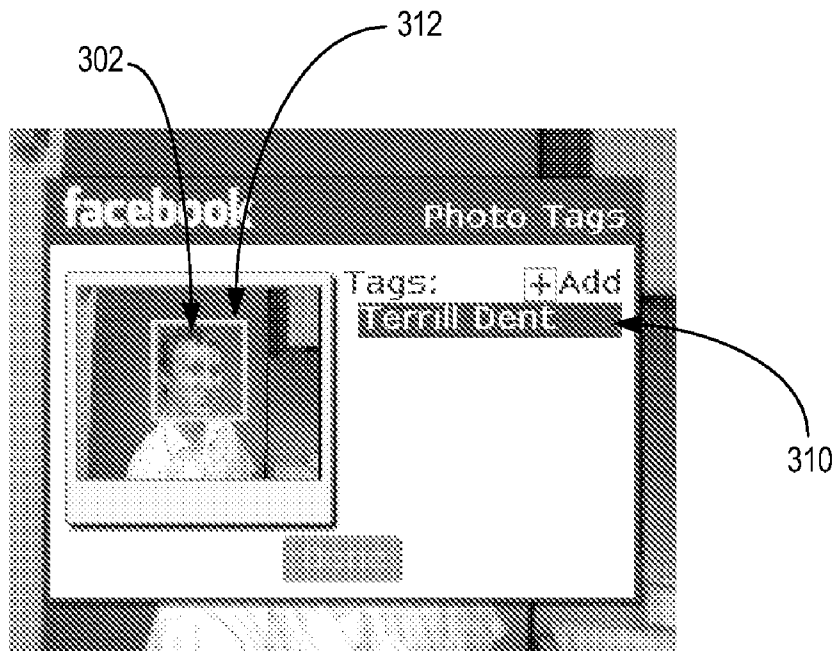


FIG. 300D

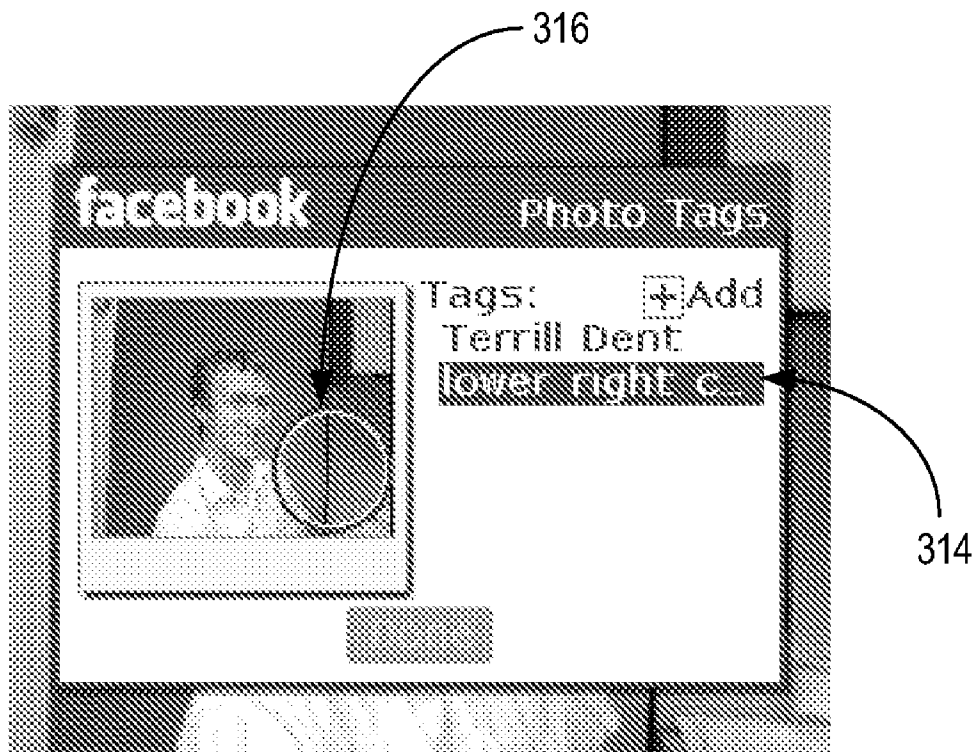


FIG. 3E

300E



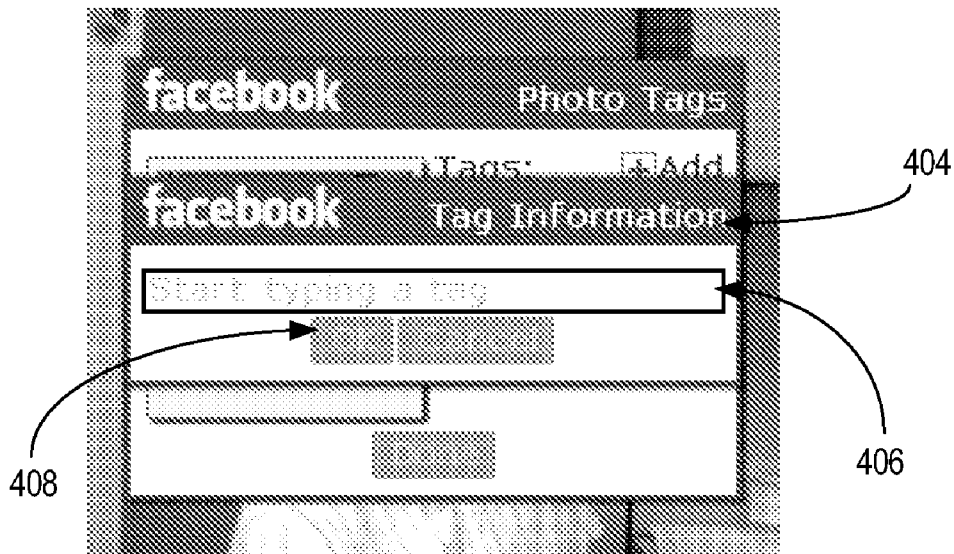


FIG. 4A

400A

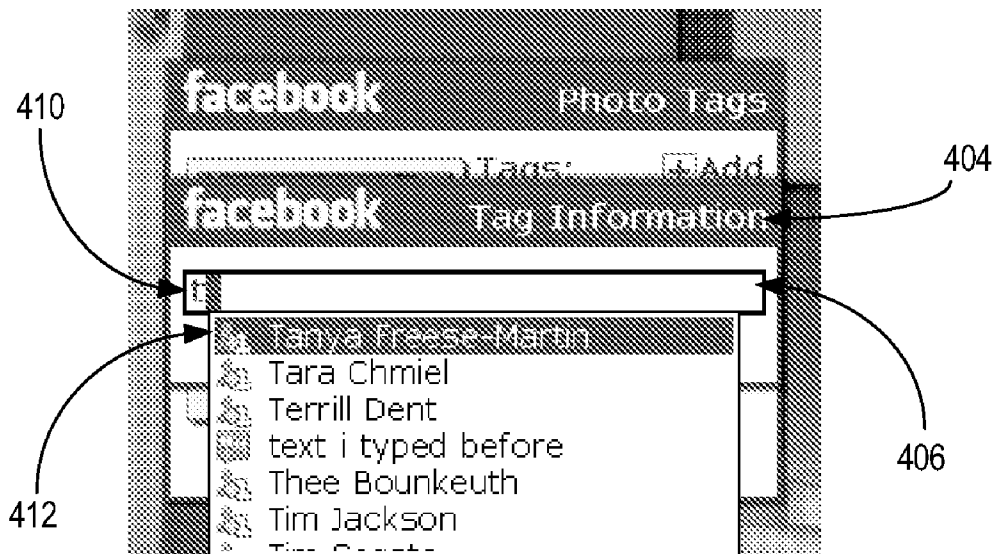


FIG. 4B

400B

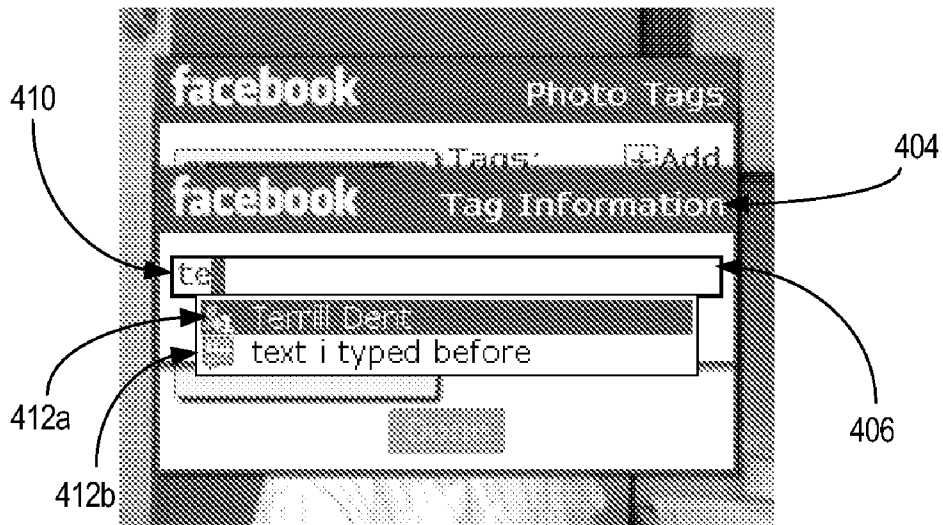


FIG. 4C

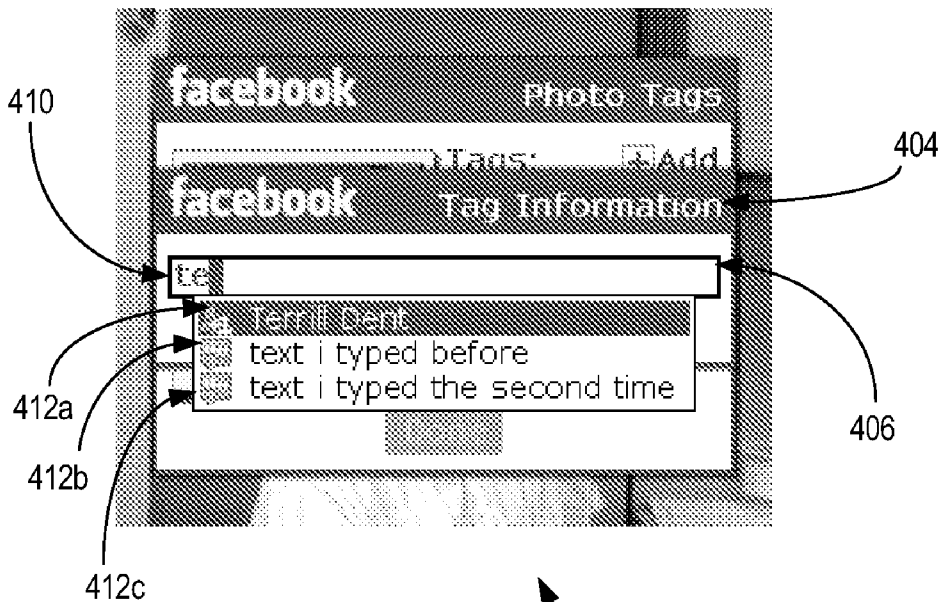
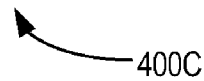
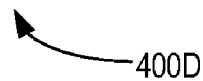


FIG. 4D



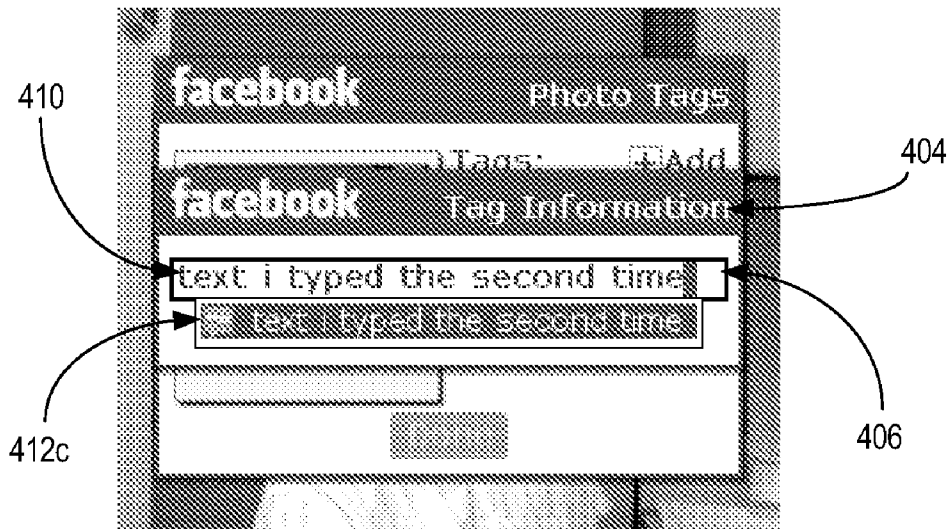


FIG. 4E

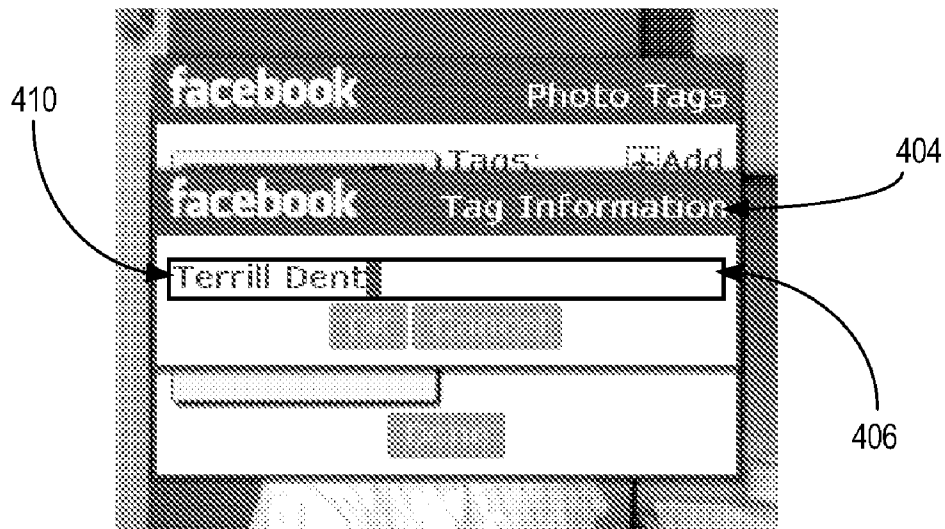
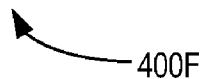


FIG. 4F



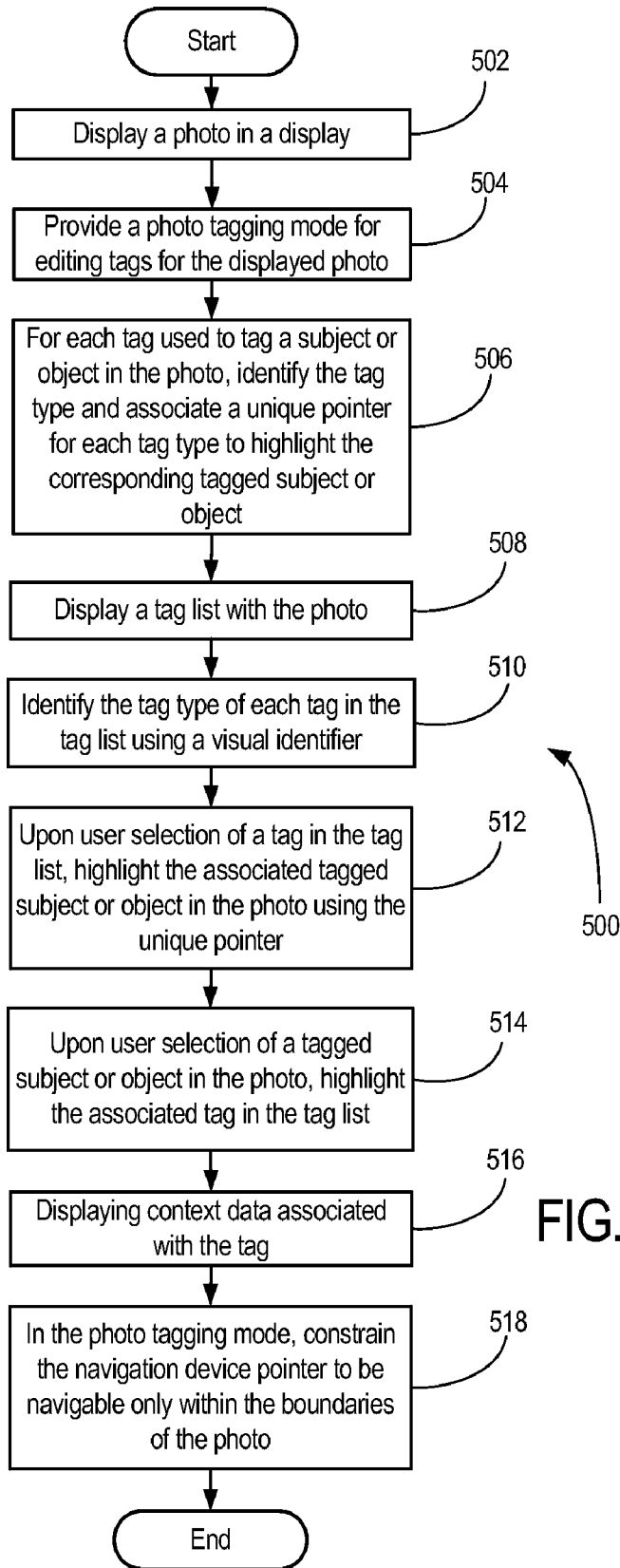


FIG. 5

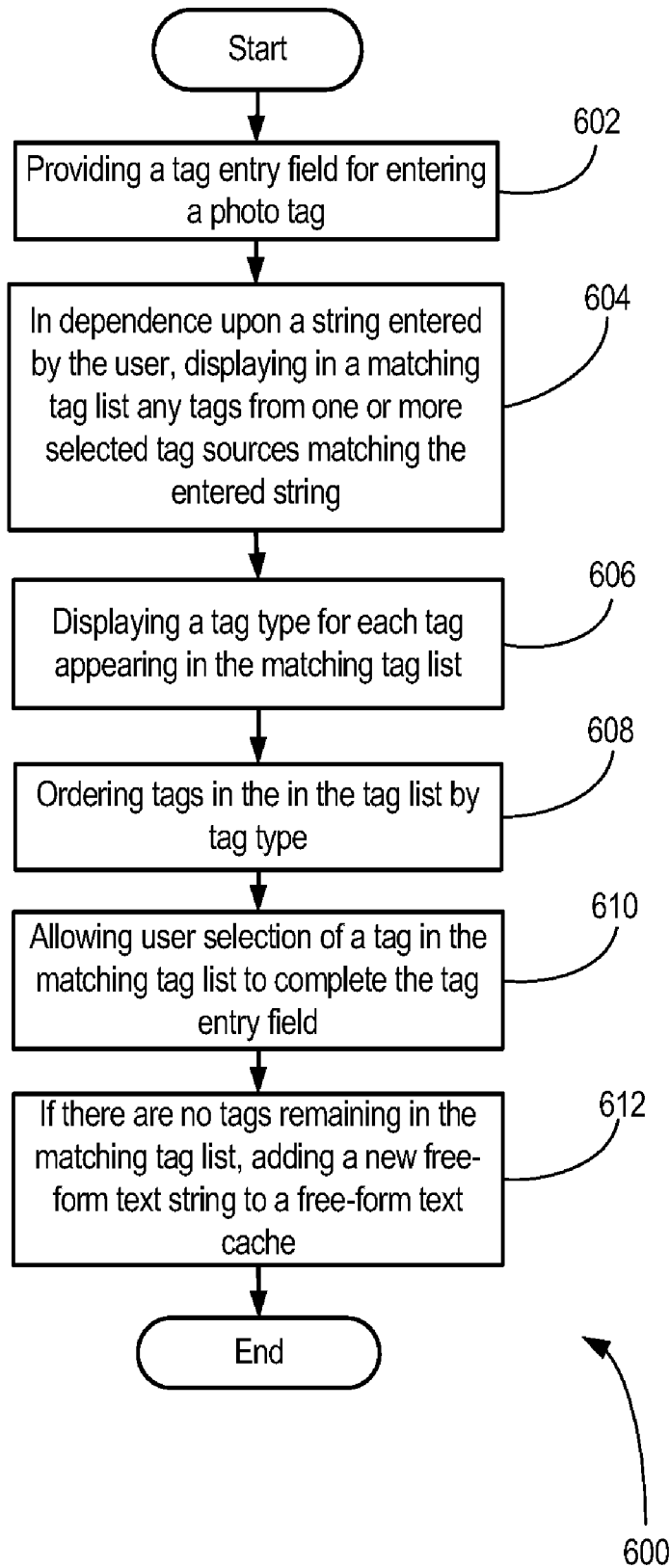


FIG. 6

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## USER INTERFACE FOR SELECTING A PHOTO TAG

### CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. application Ser. No. 11/746,285 entitled "USER INTERFACE FOR SELECTING A PHOTO TAG" and filed on May 9, 2007 now U.S. Pat. No. 8,031,170. U.S. application Ser. No. 11/746,285 is fully incorporated by reference herein.

### FIELD OF THE INVENTION

The present invention relates generally to a user interface for selecting a photo tag.

### BACKGROUND

Identifying people or objects in photographs is popular in many online contexts, such as photo sharing, social networking, etc. Selecting a "tag" to associate with an identified point in a photograph can be a complicated task if there are many potential tags to choose from. In addition, wireless mobile communication device where there are constraints on the size of the display and the flexibility of the input method, some of these common techniques used on desktops and laptops with full sized screens do not work as well.

What is needed is an improved user interface for selecting tags in a smaller display, such as may be found on a wireless mobile communication device.

### BRIEF DESCRIPTION OF THE DRAWINGS

In the figures which illustrate exemplary embodiments:

FIG. 1 is an illustration of a device in accordance with an embodiment;

FIG. 2 is a schematic block diagram of a communication subsystem component in the device of FIG. 1;

FIGS. 3A to 3E are illustrative user interface screens for editing photo tags in accordance with an embodiment;

FIGS. 4A to 4F are illustrative user interface screens for selecting a photo tag in accordance with an embodiment;

FIG. 5 is an illustrative flowchart of a method for editing photo tags in accordance with an embodiment; and

FIG. 6 is an illustrative flowchart of a method for selecting a photo tag in accordance with an embodiment.

### DETAILED DESCRIPTION

As noted above, the present invention relates to a user interface for selecting a photo tag, particularly within a smaller display, such as may be found on a wireless mobile communication device.

In an illustrative embodiment, the invention may be practiced with a handheld mobile communication device in a wireless operating environment. Shown in FIG. 1 is a schematic block diagram of an illustrative handheld mobile communication device 100. The communication device 100 may comprise a number of components, including a main processor 102 which controls the overall operation of communication device 100. Communication functions, including data and voice communications, may be performed through a communication subsystem 104. The communication subsystem 104 may receive messages from and send messages to a wireless network 200.

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The main processor 102 may also interact with additional subsystems such as a random access memory (RAM) 106, a flash memory 108, a display 110, an auxiliary input/output (I/O) subsystem 112, a data port 114, a keyboard 116, a trackball 117, a speaker 118, a microphone 120, short-range communications 122, a GPS subsystem 124, a camera module 126, and associated camera logic 128.

Some of the subsystems of the communication device 100 may perform communication-related functions, whereas other subsystems may provide "resident" or on-device functions. By way of example, the display 110 and the keyboard 116 may be used for both communication-related functions, such as entering a text message for transmission over the network 200, and device-resident functions such as a calculator or task list. The trackball 117 may be used for various navigation functions, such as navigating through a graphical user interface (GUI) menu displayed on display 110. The trackball 117 may also be configured with a secondary actuation feature, such as allowing a user to depress the trackball, to allow selection of a highlighted item.

The camera module 126 may be adapted to capture an image through a lens onto a light sensitive image sensor such as a charge coupled device (CCD) sensor array or a complementary metal oxide semiconductor (CMOS) sensor array. The camera lens may be a fixed focus lens, or a variable focus lens with or without zoom features and controlled by camera logic 128 to focus an image onto the CCD or CMOS sensor array. The size and pixel density of the CCD or CMOS sensor array may be suitably selected for the image resolution required for a particular application. Camera logic 128 may also control the camera lens aperture and/or shutter speed by incorporating a suitable light exposure meter. Image capture using camera module 126 may be initiated by a user controlling a dedicated camera shutter, or a context dependent programmable button or key (on keyboard 116, for example) that may act as a camera shutter button.

Once captured by the CCD or CMOS sensor array, the image may then be processed by camera logic 128 into a suitable digital image file format such as Joint Photographic Experts Group (JPEG), Tagged-Image File Format (TIFF), Bit Mapping (BMP), different variations on these standard image file formats, or a vendor proprietary RAW image format. The image file format may allow for the addition of image metadata to an image file in an industry standards exchangeable image file format (EXIF), or in some vendor proprietary meta-data format. The image file may then be stored in available device storage such as RAM 106 or flash memory 108, and displayed on display 110.

Still referring to FIG. 1, operating system software used by the main processor 102 is typically stored in a persistent store such as flash memory 108. Those skilled in the art will appreciate that the operating system, specific device applications, or parts thereof, may be temporarily loaded into a volatile store, such as the RAM 106, for processing by main processor 102.

The communication device 100 may send and receive communication signals over the wireless network 200 after required network registration or activation procedures have been completed. Network access may be associated with a subscriber or user of the communication device 100.

The communication device 100 may be a battery-powered device and may include a battery interface 132 for receiving one or more rechargeable batteries 130. In some embodiments, the battery 130 may be a smart battery with an embedded microprocessor. The battery interface 132 is coupled to a regulator (not shown), which assists the battery 130 in providing power V+ to the communication device 100. The bat-

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tery **130** may be used to power all components and modules in the communication device **100**, including the camera module **126** and associated camera logic **128**.

The main processor **102**, in addition to its operating system functions, enables execution of various software applications **134** on the communication device **100**. A subset of software applications **134** that control basic device operations, including data and voice communication applications, will normally be installed on the communication device **100** during its manufacture.

The software applications **134** may include a messaging application **136**. The messaging application **136** can be any suitable software program that allows a subscriber or user of the communication device **100** to send and receive wireless text communications. Various alternatives exist for the messaging application **136** as is well known to those skilled in the art. Messages that have been sent or received by the user are typically stored in local storage such as flash memory **108** of the communication device **100**, or in some other suitable storage element in the communication device **100**. In an alternative embodiment, some of the sent and received messages may be stored remotely from the communication device **100** such as in a data store of an associated host system that the communication device **100** communicates with. In an embodiment, the messaging application **136** may include a Message List user interface that is configured to allow a user to see a list of message objects (i.e. email messages) in a convenient list form. This will be described in detail further below.

Still referring to FIG. 1, communication device **100** may execute an Image Applications Module **148** that may be operatively integrated with camera module **126**, camera logic **128**, main processor **102**, RAM **106**, display **110** and various other modules and components to provide various image application functions for the images captured by the camera module **126**. Image Applications Module **148** may include various sub modules which may interact with each other, and with other application modules such as the messaging application **136**, Internet browser module **138**, address book module **142**, etc. in order to perform various functions.

In an embodiment, one of the sub modules of the Image Applications Module **148** may be a photo tagging module **148A** configured to allow a user to identify various subjects and objects within a photo. Photo tagging module **148A** will be discussed in more detail further below.

In an embodiment, another of the sub modules of the Image Applications Module **148** may be a photo tagging module **148A** configured to allow a user to select a photo tag from a list of tags associated with various subjects and objects within a photo. Photo tag selection module **148B** will be discussed in more detail further below.

The communication device **100** may further include a device state module **140**, an address book **142**, a Personal Information Manager (PIM) **144**, and various other modules **150**. Additional software applications may also be loaded onto the communication device **100** through at least one of the wireless network **200**, the auxiliary I/O subsystem **112**, the data port **114**, the short-range communications subsystem **122**, or other device subsystem **124**.

Now referring to FIG. 2, shown is an illustrative front view of a handheld mobile communication device **100** that may provide a suitable operating environment. As shown, the communication device **100** may include a display **110**, a keyboard **116**, and other input or navigation means such as a trackball **117**. The display **110** may be configured to display various screens allowing the user of device **100** to view screen outputs from the various software applications **134**, including the

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image applications **148**. Display **110** may also be configured to provide a touch-sensitive screen input in response to a prompt or query displayed on display **110**. The communication device **100** may further include a camera lens that may be used to capture an image as described above with reference to FIG. 1. In an embodiment, the integrated camera **126** may provide a camera lens **127** on the back of the communication device **100**, such that a user may use the display **110** as a camera viewfinder for framing an image.

Now referring to FIG. 3A, shown is an illustrative user interface screen **300A** in which photo tagging module **148A** may be configured for tagging a photograph in accordance with an embodiment. As shown, a photo **301** of a subject **302** is displayed within the boundaries of the user interface. With this user interface, a tag list **304** may include various tags associated subject **302** or other subjects or objects within the photo **301**. The user may click an "Add" button **306** in order to enter a photo tagging mode as described below.

Now referring to FIG. 3B, as shown in screen **300B**, once in the photo tagging mode, the photo tagging module **148A** may be configured to display to the user a pointer, such as cross-hair pointer **308** on the photo **301**. The user may move the cross-hair pointer **308** around the photo **301**, but unlike common web browser interfaces, the crosshair pointer **308** may be constrained by the photo tagging module **148A** to be navigable only within the boundaries of the photo **301**. The user does not have the ability to move the cross-hair pointer around the rest of the screen and perform other tasks, and the navigation device (e.g. trackball **117**) is thus dedicated to this photo tagging function until the user exits tagging mode. As will be appreciated, this may allow users to avoid inadvertently clicking on some button or menu option just outside of the borders photo **301** when attempting to tag a subject or object near an edge of the photo. This may be particularly useful on a smaller display, where greater dexterity may be required in order to navigate within a small area using a small navigation device.

When in tagging mode, the user may cancel tagging mode using the escape key and return to simply viewing the existing tag information. Alternatively, the user may choose to add a tag at the current location of the crosshair pointer **308** using an enter key or clicking on the navigation device (e.g. trackball **117**).

If the user chooses to add a tag, the user may be presented with another user interface to select the tag type and the context information associated with the tag. As an illustrative example, the tag types could include a free-form alphanumeric string, Facebook™ friends, address book entries (in address book **142**), browser bookmarks (in Internet browser module **138**), etc.

Now referring to FIG. 3C, as shown by way of illustration in screen **300C**, when a tag has been added by a user using photo tagging module **148A**, the added tag **310** associated with subject **302** may appear in the tag list **304** near the photo **301**.

In an embodiment, the tag **310** could also include an icon, or some other type of visual indicator adjacent the tag **310**, indicating what type of tag it is. Thus, many different types of tags may be used to tag subjects or objects in the photo **301**.

Now referring to FIG. 3D, as shown by illustration in screen **300D**, when the user scrolls over the tag **310** in the tag list **304**, the corresponding subject **302** in the photo may be highlighted by the photo tagging module **148A** in some way. This highlighting could be different, depending on what type of tag it is. For example, for a Facebook™ friend the pointer could be a grey square pointer **312** (e.g. like Facebook uses online). As another example shown in screen **300E** of FIG.

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3E, for a free-form text tag **314**, the tagged point in the photo **301** could be indicated with a circle pointer **316**.

When the user scrolls over a tag **310** in the tag list **304**, a menu may be activated with options associated with the tag. For example, there may be menu items to edit or delete the tag. There may also be context sensitive menu options associated with the specific tag type. For example, for a Facebook friend there may be an item to view the friend's Facebook profile. For an address book entry, there may be an item to view the user's address card. For a browser bookmark, there may be an item to visit that website.

In another embodiment, once subjects or objects have been tagged in the photo **301**, photo tagging module **148A** may be configured such that upon user selection of a tag **310** in the tag list **304** the corresponding tagged subject or object in the photo **301** may be highlighted using the corresponding pointer identifying the tag type.

In another embodiment, once subjects (e.g. subject **302**) or objects have been tagged in the photo **301**, photo tagging module **148A** may be configured such that upon user selection of or scrolling over a tagged subject or object in the photo **301**, the corresponding tag **310** may be highlighted in the tag list **304**. As well, context data associated with the tag may be displayed (e.g. in a pop-up window) upon user selection, or automatically if so configured.

Thus, using the above described user interface, a plurality of tag types may be used to tag subjects and objects in a photo, and a type-specific data may be associated with each tag—such as the visual indicator or symbol used to highlight the tagged subject or object in the photo, the custom actions available for the tag, etc.

Now referring to FIG. **4A**, shown in screen **400A** is an illustrative tag selection user interface **404** for displaying a tag search facility as may be presented by photo tag selection module **148B**. As shown in FIG. **4A**, the user is initially presented with a tag entry field **406** indicating that he should start typing a tag. Upon completion of typing, the user may click "OK" **408** to select the tag.

In an embodiment, as the user begins to type, photo tag selection module **148B** may be configured to search one or more selected "tag sources" for tags that match the currently entered text. As shown by way of illustration in screen **400B** of FIG. **4B**, these tag sources could include, for example, a list of friends from an online service like Facebook™, a list of contacts from the user's address book **142**, a list of the user's browser bookmarks (in Internet browser **138**), a cache of recent free-form text entries, etc.

As shown in screen **400C** of FIG. **4C**, and **400D** of FIG. **4D**, photo tag selection module **148B** may be configured to display any matching tags (e.g. **412a**, **412b**, **412c**) from one of the tag sources to the tag being typed by the user in the tag entry field **406** in a matching tag list **412**. Each tag may have an icon or some other visual identifier associated with it that clearly indicates its type, and allows the user to quickly distinguish between different types of tags.

If the user types text that does not match any tag from the tag sources in the matching tag list **412**, the photo tag selection module **148B** may create a new free-form tag entry and add it to a free-form text cache as a new tag entry. The free-form text cache may then become one of the tag sources for any subsequent tag selection by the user.

As the user continues to type, if a tag that the user wishes to select appears in the matching tag list **412**, the user can scroll to the tag in the matching tag list **412** and select it by pressing enter or clicking on the navigation device (e.g. trackball **117**). For example, as shown in screen **400E** of FIG. **4E**, the user may select a tag **412c** which may then be placed into the tag

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entry field **406**. The matching tag list **412** then disappears, and the selected tag may appear beside the photo (e.g. tag **310** as shown in FIG. **3C** associated with subject **302** in the photo **301**).

Significantly, as the matching tag list **412** includes possible tags that may be used from various selected tag sources (such as the user's Facebook friends, the user's address book **142**, a list of the user's browser bookmarks from Internet browser **138**, a cache of the recent free-form text entries, etc.), the user is provided with a simple way to associate subjects or objects in a photo with a predefined "tag" from one of a number of selected tag sources, as may be defined by the user. Thus, the free-form text cache would just be one of many possible tag sources, all of which contribute matching tag entries to the matching tag list **412**.

Now referring to FIG. **4F**, once a tag has been entered into the tag entry field **406**, photo tag selection module **148B** may be configured to allow the user to choose to view some context data associated with the tag (e.g. an address card if the tag identifies a contact in the user's address book **142**). Finally, photo tag selection module **148B** may be configured to allow the user to accept the new tag and return to the photo tagging user interface (described above with respect to FIGS. **3A** to **3E**), or cancel the tag selection and return to the photo tagging user interface.

In an embodiment, in addition to the tag sources mentioned above, another type of tag source may be landmark tags with associated geographic location information. For example, if a photo contains a number of distinctive landmarks, it may be possible for each landmark to be tagged with a unique geographic location tag (e.g. specific latitude and longitude coordinates for each landmark). Such a list of geographic location tags may be obtained, for example, as a user visits each of the landmarks identified in the photo.

For example, an aerial photo of the National Mall in Washington D.C. may show a number of famous landmarks such as the Lincoln Memorial, Vietnam Veterans Memorial, and The Washington Monument in the same photo. A user who has visited each of these landmarks, provided appropriate names, and recorded geographic location information at each landmark location may then subsequently select a landmark tag by name from the prepared landmark tag list in order to tag the appropriate points in the photo at which each of the landmarks appear. Once a user tags each landmark appearing in the photo using the appropriate landmark tag, the corresponding geographic coordinates also become available as context based information accessible through the tag.

In an alternative embodiment, a list of famous landmarks for various cities may be prepared by a third party such that a user need not be at each location to record the geographic coordinates. In this case a landmark tag may be selected by a user from a prepared landmark list that may be selected as one of the tag sources.

In the tag selection interface described above, each tag may have some context associated with it, depending on the tag type. As will be appreciated, this associated context may allow the user to visually identify and differentiate between the tag types in the tag selection user interface **404**, and present other context sensitive menu options, such as viewing associated address cards, Facebook profiles, websites, geographic location information for landmarks, etc.

Now referring to FIG. **5**, shown is a flowchart of an illustrative method **500** in accordance with an embodiment. As shown, method **500** begins and at block **502** where method **500** displays a photo in a display (e.g. display **110**) to be tagged.



Method **500** then proceeds to block **504**, where method **500** may configure photo tagging module **148A** to provide a photo tagging mode for editing tags for the displayed photo.

Method **500** may then proceed to block **506**, where for each tag used to tag a subject or object in the photo, method **500** may configure photo tagging module **148A** to identify the tag type and associate a unique pointer for each tag type to highlight the corresponding tagged subject or object. For example, as described earlier, a grey square could be used for Facebook friends, and another shape and/or color may be used for address book tag types.

Method **500** may then proceed to block **508**, where method **500** may configure photo tagging module **148A** to display a tag list with the displayed photo.

Method **500** may then proceed to block **510**, where method **500** may configure photo tagging module **148A** to identify the tag type of each tag in the tag list using a visual identifier. For example, the visual identifier may be an icon, or some suitable graphic appearing beside a tag name.

Method **500** may then proceed to block **512**, where upon user selection of a tag in the tag list, method **500** may configure photo tagging module **148A** to highlight the associated tagged subject or object in the photo using the unique pointer.

Method **500** may then proceed to block **514**, where upon user selection of a tag in the tag list, method **500** may configure photo tagging module **148A** to highlight the associated tag in the tag list.

Method **500** may also proceed to block **516**, where method **500** may configure photo tagging module **148A** to display context data associated with a tag. For example, context data associated with an address book type may be the email address, name, and other information stored in the address book module **138** for the corresponding address book entry. In an embodiment, the context data associated with the tag could be displayed within a menu that may be accessed by a suitable menu selection associated with each tag. Method **500** then ends.

Method **500** may also proceed to block **518**, where method **500** may configure photo tagging module **148A** to constrain the navigation device pointer to be navigable only within the boundaries of the photo.

Now referring to FIG. 6, shown is a flowchart of an illustrative method **600** in accordance with an embodiment. As shown, method **600** begins and at block **602** where method **600** provides a tag entry field for entering a photo tag.

Method **600** may then proceed to block **604**, where in dependence upon a string entered by the user in the tag entry field, method **600** may configure photo tag selection module **148B** to display in a matching tag list **412** any tags (**412a**, **412b**, **412c**) matching the entered string.

Method **600** may then proceed to block **606**, where method **600** may configure photo tag selection module **148B** to display a tag type for each tag appearing in the matching tag list **412**. For example, the visual identification may be an icon, or other suitable graphic identification appearing with the tag name.

Method **600** may then proceed to block **608**, where method **600** may configure photo tag selection module **148B** to order the matching tags in the tag list by tag type in order to make it easier for the user to select a suitable tag by tag type.

Method **600** may also proceed to block **610**, where method **600** may configure photo tag selection module **148B** to allow user selection of a tag in the matching tag list to complete the tag entry field **406**.

Method **600** may then proceed to block **612**, where if there are not matching tags appearing in the matching tag list **412**, then method **600** may add the new free-form text tag to a free-form text tag cache.

Method **600** may then proceed to block **614**, where method **600** may configure photo tag selection module **148B** to select the free-form text tag cache as one of the tag sources for any subsequent tag selection by the user. Method **600** then ends.

Thus, in accordance with an embodiment, there is provided a method of selecting a photo tag for a tagged photo, comprising: providing a tag entry field for entering a photo tag; in dependence upon a string entered by a user, displaying in a matching tag list any tags from one or more selected tag sources matching the entered string.

In an embodiment, the method further comprises displaying a tag type for each tag appearing in the matching tag list.

In another embodiment, the method further comprises ordering tags in the matching tag list by tag type.

In another embodiment, the method further comprises allowing user selection of a tag in the matching tag list to complete the tag entry field.

In another embodiment, the method further comprises adding a new free-form text string to a free-form text cache if there are no tags remaining in the matching tag list.

In an embodiment, the method further comprises selecting as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

In another aspect of the invention, there is provided a system for selecting a photo tag for a tagged photo, comprising: means for providing a tag entry field for entering a photo tag; means for displaying in a matching tag list, in dependence upon a string entered by a user, any tags from one or more selected tag sources matching the entered string.

In an embodiment, the system further comprises means for displaying a tag type for each tag appearing in the matching tag list.

In another embodiment, the system further comprises means for ordering tags in the matching tag list by tag type.

In another embodiment, the system further comprises means for allowing user selection of a tag in the matching tag list to complete the tag entry field.

In another embodiment, the system further comprises means for adding a new free-form text string to a free-form text cache if there are no tags remaining in the matching tag list.

In another embodiment, the system further comprises means for selecting as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

In another aspect of the invention, there is provided a data processor readable medium storing data processor code that when loaded into a device adapts the device to select a photo tag for a tagged photo, the data processor readable medium comprising: code for providing a tag entry field for entering a photo tag; code for displaying in a matching tag list, in dependence upon a string entered by a user, any tags from one or more selected tag sources matching the entered string.

In an embodiment, the data processor medium further comprises code for displaying a tag type for each tag appearing in the matching tag list.

In another embodiment, the data processor medium further comprises code for ordering tags in the matching tag list by tag type.

In another embodiment, the data processor medium further comprises code for allowing user selection of a tag in the matching tag list to complete the tag entry field.

In another embodiment, the data processor medium further comprises code for adding a new free-form text string to a free-form text cache if there are no tags remaining in the matching tag list.

In another embodiment, the data processor medium further comprises code for selecting as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

While illustrative embodiments have been described above, it will be appreciated that various changes and modifications may be made. More generally, the scope of the invention is defined by the following claims.

We claim:

1. A method of selecting a photo tag for a tagged photo, comprising:

displaying a tag list including tags from one or more tag sources matching a search string;

displaying a tag type indicator for each tag appearing in the tag list, said tag type being indicative of a tag source associated with the tag.

2. The method of claim 1, further comprising providing a tag entry field for entering the search string.

3. The method of claim 1, further comprising ordering tags in the tag list by tag type.

4. The method of claim 1, further comprising providing a graphical user interface to select a tag in the tag list.

5. The method of claim 1, further comprising:  
adding a new free-form text string to a free-form text cache based upon the search string.

6. The method of claim 1, further comprising selecting as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

7. A system for selecting a photo tag for a tagged photo, comprising:

an apparatus operable to display a tag list including tags from one or more tag sources matching a search string;

an apparatus operable to display a tag type indicator for each tag appearing in the tag list, said tag type being indicative of a tag source associated with the tag.

8. The system of claim 7, further comprising an apparatus operable to provide a tag entry field for entering a photo tag.

9. The system of claim 7, further comprising an apparatus operable to order tags in the tag list by tag type.

10. The system of claim 7, further comprising an apparatus operable to allow selection of a tag in the tag list to complete the tag entry field.

11. The system of claim 1, further comprising:  
an apparatus operable to add a new free-form text string to a free-form text cache based upon the search string.

12. The system of claim 1, further comprising an apparatus operable to select as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

13. A computer readable medium storing computer code that when loaded into a device adapts the device to select a photo tag for a tagged photo, the computer readable medium comprising:

code for displaying a tag list including tags from one or more tag sources matching a search string;

code for displaying a tag type indicator for each tag appearing in the tag list, said tag type being indicative of a tag source associated with the tag.

14. The computer readable medium of claim 13, further comprising code for providing a tag entry field for entering the search string.

15. The computer readable medium of claim 13, further comprising code for ordering tags in the tag list by tag type.

16. The computer medium of claim 13, further comprising code for providing a graphical user interface to select a tag in the tag list to complete the tag entry field.

17. The computer medium of claim 13, further comprising:  
code for adding a new free-form text string to a free-form text cache based upon the search string.

18. The computer readable medium of claim 13, further comprising code for selecting as a tag source one or more of an online network profile, an address book, browser bookmarks, landmark tags, and free-form text.

19. The computer readable medium of claim 13, further comprising code for displaying context data with the photo tag.

20. The computer readable medium of claim 19, wherein the context data is based on information in an address book.

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