

[0024] FIG. 6 is a view of a screen display showing a first example of a visual feedback method with respect to the reaching of the end of a displayed menu list in a flicking operation;

[0025] FIG. 7 is a view of a screen display showing a second example of a visual feedback method with respect to the reading of the end of a displayed menu list in a flicking operation;

[0026] FIG. 8 is a view of a screen display showing a third example of a visual feedback method with respect to the reaching of the end of a displayed menu list in a flicking operation;

[0027] FIG. 9 is a view of a screen display showing an example of an audible feedback method with respect to the reaching of the end of a displayed menu list in a flicking operation;

[0028] FIG. 10 is a flow chart illustrating the process of a menu search feedback method according to an embodiment of the present invention;

[0029] FIG. 11 is a flow chart illustrating the process of a feedback output routing for indicating the end of a menu list in the process in FIG. 10;

[0030] FIG. 12 depicts the displaying of a motion graphic image according to one embodiment of the present invention;

[0031] FIG. 13 depicts the displaying of a motion graphic image according to another embodiment of the present invention;

[0032] FIG. 14A and FIG. 14B show a screen image of a contents list according to one embodiment of the present invention; and

[0033] FIG. 15A and FIG. 15B show a screen image of a contents list according to another embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0034] The mobile terminal according to exemplary embodiments of the present invention will now be described with reference to the accompanying drawings. In the following description, usage of suffixes such as 'module', 'part' or 'unit' used for referring to elements is given merely to facilitate explanation of the present invention, without having any significant meaning by itself. It should be noted that 'module', 'part', and 'unit' can be substitutively, alternatively or mixedly used.

[0035] FIG. 1 is a schematic block diagram of a mobile terminal implementing an embodiment of the present invention.

[0036] The mobile terminal may be implemented in various forms. For example, the described mobile terminal functionality may be implemented in portable devices such as mobile phones, smart phones, notebook computers, digital broadcast receivers, PDAs (Personal Digital Assistants), PMPs (Portable Multimedia Player), navigation devices, and the like, and in fixed type devices such as digital TVs, desktop computers, or the like. In the following description, a terminal is assumed to be a mobile terminal, but it would be understood by a person in the art that the present invention can be also applicable to the fixed types of terminals except for any elements especially configured for a mobile purpose.

[0037] The mobile terminal according to an embodiment of the present invention will now be described with reference to FIG. 1.

[0038] The mobile terminal 100 may include a wireless communication unit 110, an A/V (Audio/Video) input unit

120, a user input unit 130, a sensing unit 140, an output unit 150, a memory 160, an interface unit 170, a controller 180, and a power supply unit 190.

[0039] FIG. 1 shows the mobile terminal as having various components, but it should be understood that implementing all of the illustrated components is not a requirement. Greater or fewer components may alternatively be implemented.

[0040] The elements of the mobile terminal will be described in detail as follows.

[0041] The wireless communication unit 110 typically includes one or more components allowing radio communication between the mobile terminal 100 and a wireless communication system or a network in which the mobile terminal is located. For example, the wireless communication unit may include at least one of a broadcast receiving module 111, a mobile communication module 112, a wireless Internet module 113, a short-range communication module 114, and a location information module 115.

[0042] The broadcast receiving module 111 receives broadcast signals and/or broadcast associated information from an external broadcast management server (or other network entity) via a broadcast channel. The broadcast channel may include a satellite channel and/or a terrestrial channel. The broadcast management server may be a server that generates and transmits a broadcast signal and/or broadcast associated information or a server that receives a previously generated broadcast signal and/or broadcast associated information and transmits the same to a terminal. Examples of the broadcast associated information may include information regarding a broadcast channel, a broadcast program, a broadcast service provider, etc. The broadcast signal may include a TV broadcast signal, a radio broadcast signal, a data broadcast signal, and the like. Also, the broadcast signal may further include a broadcast signal combined with a TV or radio broadcast signal.

[0043] The broadcast associated information may also be provided via a mobile communication network (e.g., that operates according to standards such as 3GPP, 3GPP2, IEEE, CDMA, GSM, OMA, so-called 4G techniques, etc.) and, in this case, the broadcast associated information may be received by the mobile communication module 112.

[0044] The broadcast signal may exist in various forms. For example, it may exist in the form of an electronic program guide (EPG) of digital multimedia broadcasting (DMB), electronic service guide (ESG) of digital video broadcast-handheld (DVB-H), and the like.

[0045] The broadcast receiving module 111 may be configured to receive signals broadcast by using various types of broadcast systems. In particular, the broadcast receiving module 111 may receive a digital signal broadcast by using a digital broadcast system such as multimedia broadcasting-terrestrial (DMB-T), digital multimedia broadcasting-satellite (DMB-S), digital video broadcast-handheld (DVB-H), the data broadcasting system known as media forward link only (MediaFLO®), integrated services digital broadcast-terrestrial (ISDB-T), etc. The broadcast receiving module 111 is configured to be suitable for every broadcast system that provides a broadcast signal as well as the above-mentioned digital broadcast systems. Broadcast signals and/or broadcast-associated information received via the broadcast receiving module 111 may be stored in the memory 160 (or another type of storage medium).

[0046] The mobile communication module 112 transmits and/or receives radio signals to and/or from at least one of a