

time period, and captures a broadcast image of the broadcast program to display on the standby screen, which is repeatedly performed.

[0082] When the searched broadcast program is not currently being broadcast, the controller **180** outputs a general standby screen on the display **151**. The general standby screen includes a photo, a picture, a moving image, or program content provided from the mobile terminal. While the general standby screen is displayed on the display **151**, an indicator for informing that a display function of the standby screen may be displayed on the mobile terminal **100**. The indicator may be implemented as an icon, an image, or data content.

[0083] The controller **180** controls a still image or a moving image of the broadcast image to be displayed on the standby screen according to a display mode of the broadcast image. When a moving image is to be displayed on the standby screen, the controller **180** may implement a screen saver function applied to a monitor of a computer for displaying only an image without outputting sound.

[0084] When a broadcast image is displayed on the standby screen, if a user's input for a broadcast receiving mode is performed, the controller **180** displays the broadcast image on the display **151** wherein the user can view a broadcast program corresponding to the broadcast image. The user's input may include one of an input through a specific button on a key pad of the mobile terminal, an input through a button additionally mounted on a side surface of the mobile terminal, an input through a short key for a broadcast viewing, and an input through a selection for a specific menu.

[0085] While the user views a broadcast program on the mobile terminal, if a certain menu key is inputted, the currently viewed channel or broadcast program can be set as a broadcast image to be displayed on the standby screen. Accordingly, the user can conveniently set a display function of the standby screen while viewing a broadcast program.

[0086] The operation of the mobile terminal for displaying a broadcast image onto a standby screen will be explained below.

[0087] The controller **180** stores broadcast image setting information in the memory **160**. The information includes information regarding a method of displaying a broadcast image on the standby screen, and information regarding a method of selecting a broadcast program.

[0088] When the current mode of the mobile terminal **100** is converted into a standby mode, the controller **180** receives associated broadcast information from the broadcast receiving module **111**. The controller **180** receives a selected broadcast program based on information stored in the memory **160**, captures a still image or a moving image according to a set display method, and then stores the captured image in the memory **160**. The controller **180** retrieves a broadcast image from the memory **160** to display the retrieved broadcast image on the display **151**. While the broadcast image is displayed on the display **151**, a user requests a broadcast viewing, and the controller **180** responsively causes a broadcast channel to be displayed on the display **151**.

[0089] An embodiment of the present invention, a broadcast image received through the broadcast receiving module **111** is stored in the memory **160** and later displayed on the display **151**. Alternatively, a broadcast image received through the broadcast receiving module **111** may not be stored in the memory **160**, but instead is displayed on the display **151** in real time.

[0090] FIG. **5** is a flowchart illustrating a method of displaying a broadcast image on a standby screen of the mobile terminal according to one embodiment of the present invention.

[0091] Referring to FIG. **5**, the controller **180** of the mobile terminal enters a standby screen setting mode by displaying a menu which permits setting of a display function of a standby screen (**S101**). The controller **180** receives associated broadcast information (EPG) through the broadcast receiving module **111**, and stores the EPG in the memory **160**.

[0092] Then, the controller **180** receives information regarding the display function of the standby screen through the user input unit **130**, and sets the display function of the standby screen (**S103**). The information for setting a display function of the standby screen includes but is not limited to information regarding a method of selecting a broadcast program to be displayed on the standby screen, and information regarding a method of displaying a broadcast image. The method of selecting a broadcast program includes a method of using a preference channel, a broadcast program title, a search word, and a specific time. The broadcast image may be displayed in a still image mode or in a moving image mode (e.g., video).

[0093] After the display function of the standby screen has been set, when the current status of the mobile terminal is converted into a standby mode (**S105**), the controller **180** operates the broadcast receiving module **111** to set a mode for receiving a broadcast signal (**S107**).

[0094] Once the broadcast receiving mode is set, the controller **180** searches a broadcast program according to a method of selecting a broadcast program included in the set information (**S109**). For example, when a user enters a broadcast program title by the method of selecting a broadcast program, and enters 'CNN news' as a title of a broadcast program to be searched, the controller **180** checks whether a broadcast program identical to the 'CNN news' exists by searching associated broadcast information stored in the memory **160**.

[0095] Once the broadcast program is searched, the controller **180** checks whether the searched broadcast program is currently being broadcast (**S111**). If the searched broadcast program is currently being broadcast, the controller **180** displays a broadcast image received through the broadcast receiving module **111** corresponding to the searched broadcast program on the display **151** by the displaying mode of the set information (**S113**). While the broadcast image is displayed on the display **151**, when a certain ending button is inputted, the controller **180** controls the display **151** so that information such as a broadcast program title, a broadcast channel, and a broadcast time of the current broadcast image can be displayed on the standby screen.

[0096] For example, when the displaying mode is set as a still image mode, the controller **180** captures a broadcast image of the searched broadcast program to store in the memory **160**. Furthermore, when the displaying mode is set as a moving image mode, the controller **180** records a broadcast image of the searched broadcast program for a certain time to store in the memory **160**.

[0097] Next, the controller **180** reads the broadcast image stored in the memory **160** to display on the display **151**. The controller **180** stops operation of the broadcast receiving module **111**, and repeatedly performs the steps **S101** to **S113** after a certain time lapses.