

tactile morphing display **2604** to display the additional display information **2614** (i.e., the contents of the file folder) when the selectable element is activated.

[0077] The control logic **200** controls at least a portion of the controllable skin texture surface **2616** to protrude (i.e., raise) at a location corresponding with the displayed selectable element to provide a protruding selectable element. In this manner, the protruding selectable element is tactically identifiable to a user, which can aid the user in selecting and/or activating the protruding selectable element.

[0078] In addition, the control logic **200** controls the non-keypad display **2618** to adjust visual characteristics of the displayed selectable element such as brightness, color, font, shape, size and/or any other suitable visual characteristic. In this manner, the user may also be aided visually in selecting and/or activating the selectable element displayed on the non-keypad display **2618**.

[0079] In some embodiments, the controllable skin texture surface **2610** is overlaid on top of the non-keypad display **2618**. In other embodiments, the controllable skin texture surface is underlaid beneath the non-keypad display **2618**. In either embodiment, the location of the protruding selectable element can be coincident with the displayed selectable element, adjacent to the displayed selectable element, and/or any other suitable location corresponding with the displayed selectable element.

[0080] During operation, a user can navigate the non-keypad display **2618** by selecting the protruding selectable element with a finger, stylus, and/or any other suitable user input. The sensor **2602** is capable of sensing whether the user is selecting the protruding selectable element or activating the protruding selectable element. In some embodiments, the sensor **2602** senses that the user is selecting the protruding selectable element when the user depresses the protruding selectable element one or more times and senses that the user is activating the protruding selectable element when the user depresses the protruding selectable element more than the one or more times. For example, the sensor **2602** can sense that the user is selecting the protruding selectable element when the protruding selectable element is depressed once and activating the protruding selectable element when the protruding selectable element is depressed twice.

[0081] The control logic **200** provides audible feedback **2624** in response to the sensor **2602** sensing the user selecting the protruding selectable element. The audible feedback **2624** can be provided to the user via, for example, a speaker **2626** operatively coupled to the control logic **200**. In some embodiments, the audible feedback **2624** verbally describes the selectable element. Various known techniques can be used by the control logic **200** to provide audible feedback **2624** that verbally describes the selectable element.

[0082] The control logic **200** controls the non-keypad display **2618** to display additional display information **2610**, **2614** in response to the sensor **2602** sensing the user activating the protruding selectable element. More specifically, the control logic **200** obtains the additional display information **2610**, **2614** via the network interface **2610** and/or memory **2608** and controls the non-keypad display **2618** based thereon.

[0083] In addition, in some embodiments, a keypad **2628** having a plurality of keys **2630** is operatively coupled to the control logic **200**. The keypad **2628** can be any suitable keypad such as an alphanumeric keypad, a QWERTY keypad, or any other suitable keypad having a plurality of keys. The

keypad **2628** can provide keypad information **2632** to the control logic **200**. The keypad information **2632** can be used for, among other things, configuring the control logic **200**. For example, the user can configure the control logic **200** to provide the audible feedback **2624** in a specific language and/or using specific phonetics.

[0084] FIG. 27 illustrates one example of the tactile morphing display **2604**. In this example, the tactile morphing display **2604** includes the controllable skin texture surface **2616**, the sensor **2602**, and the non-keypad display **2618**. As shown, the controllable skin texture surface **2616** overlays the non-keypad display **2618** in this example. In addition, as noted above, the tactile morphing display **2604** can include the dome switches **1842** to provide user feedback when the protruding selectable element is selected and/or activated.

[0085] The control logic **200** controls at least a portion of the controllable skin texture surface **2616** to protrude (i.e., raise) the controllable skin surface **2606** at a location corresponding to a selectable element **2700** to provide a protruding selectable element **2701**. In addition, the control logic **200** controls the non-keypad display **2618** to adjust visual characteristics of the selectable element **2700**. Furthermore, when the sensor **2602** senses the user selecting the protruding selectable element **2701**, the control logic **200** generates the audible feedback **2624** in response thereto.

[0086] When the sensor **2602** senses the user activating the protruding selectable element **2701**, the control logic **200** retrieves additional display information **2610**, **2614** via network interface **2606** and/or memory **2608** in response thereto. More specifically, the control logic **200** requests the additional display information **2610**, **2614** based on the location of the additional display information **2610**, **2614** represented by the selectable element **2700**.

[0087] FIG. 28 illustrates another example of the tactile morphing display **2604**. In this example, the tactile morphing display **2604** includes the controllable skin texture surface **2616**, the sensor **2602**, and a flexible display **2702** for displaying the non-keypad display **2618**. The flexible display **2702** can be any known flexible display such as an electrophoretic display or any other suitable flexible display. As shown, the controllable skin texture surface **2616** underlays the flexible display **2702** in this example. In addition, the tactile morphing display **2604** can include the dome switches **1842** to provide user feedback when the protruding selectable element is selected and/or activated.

[0088] The control logic **200** controls at least a portion **2704** of the controllable skin texture surface **2616** to protrude (i.e., raise) at a location corresponding to a selectable element **2706** to provide a protruding selectable element **2708**. The protruding portion **2704** causes the flexible display **2702** to protrude at a corresponding location. In addition, the control logic **200** controls the flexible display **2702** to adjust visual characteristics of the selectable element **2706**. Furthermore, when the sensor **2602** senses the user selecting the protruding selectable element **2708**, the control logic **200** generates the audible feedback **2624** in response thereto.

[0089] When the sensor **2602** senses the user activating the protruding selectable element **2708**, the control logic **200** retrieves additional display information **2610**, **2614** via network interface **2606** and/or memory **2608** in response thereto. More specifically, the control logic **200** requests the additional display information **2610**, **2614** based on the location of the additional display information **2610**, **2614** represented by the selectable element **2706**.