

with the particular location. For example, the electronic device may provide tactile feedback of increasing intensity to guide the user to a selectable option. As another example, the electronic device may provide tactile feedback indicating the amount the display was scrolled, or a limit to scrolling or zooming the display. Process 1500 may then return to step 1506 and detect the current position of the user's finger on the screen.

**[0102]** The above described embodiments of the present invention are presented for purposes of illustration and not of limitation, and the present invention is limited only by the claims which follow.

What is claimed is:

1. A method for providing tactile feedback as guidance for a user of an electronic device, the method comprising:

displaying at least one selectable option;

detecting an input on the display;

providing tactile feedback to guide the user to the at least one selectable option; and

changing the tactile feedback as the input moves relative to the at least one selectable option.

2. The method of claim 1, wherein the at least one selectable option comprises a key of one of a keyboard and a keypad.

3. The method of claim 1, wherein:

detecting further comprises detecting that the input approaches the at least one selectable option; and  
changing further comprises increasing the intensity of the tactile feedback.

4. The method of claim 1, wherein:

detecting further comprises detecting that the input moves away from the at least one selectable option; and  
changing further comprises decreasing the intensity of tactile feedback.

5. The method of claim 1, wherein:

displaying further comprises displaying a plurality of selectable options;

detecting further comprises detecting the input moving towards a particular one of the plurality of selectable options; and

providing further comprises providing tactile feedback associated with the particular one of the plurality of selectable options, wherein different tactile feedback is associated with at least two of the plurality of selectable options.

6. The method of claim 5, wherein:

displaying a plurality of selectable items further comprises displaying at least one option for entering data and at least one option for removing entered data; and

the tactile feedback associated with the at least one option for entering data is different than the tactile feedback for the at least one option for removing entered data.

7. The method of claim 1, wherein providing tactile feedback comprises providing at least one of vibration feedback, heat feedback, and electrical feedback.

8. A method for providing tactile feedback to a user of an electronic device, comprising:

detecting a portion of a user's hand on a first location of the display;

providing a first tactile feedback to the user in response to detecting the portion of the user's hand on the first location;

detecting a portion of a user's hand on a second location of the display;

providing a second tactile feedback to the user in response to detecting the portion of the user's hand on the second location, the second tactile feedback being different from that of the first tactile feedback.

9. The method of claim 8 further comprising:

detecting movement of the portion of the user's hand from the first location to the second location on the display; and

providing tactile feedback as the portion of the user's hand moves on the display.

10. The method of claim 9 further comprising:

determining that the detected movement of the portion of the user's hand from the first location to the second location on the display comprises an input to at least one of scroll and zoom the display; and

in response to determining, providing tactile feedback to the user.

11. The method of claim 10, further comprising:

identifying at least one of a scrolling limit and a zooming limit of the display associated with the determined input; and

in response to identifying, providing tactile feedback to the user.

12. The method of claim 8, wherein:

tactile feedback is defined by at least one of a frequency, an amplitude, a change in frequency, a change in amplitude, a duration, and period; and

at least one of a frequency, an amplitude, a change in frequency, a change in amplitude, a duration, and period of the first tactile feedback is different than that of the second tactile feedback.

13. A method for providing tactile feedback using an electronic device, the method comprising:

displaying a plurality of selectable options;

detecting an input adjacent a particular one of the plurality of selectable options;

identifying particular tactile feedback associated with the particular one of the plurality of selectable options in response to detecting, wherein one of at least two different tactile feedback is associated with each of the plurality of selectable options; and

providing the identified tactile feedback.

14. The method of claim 13, wherein:

displaying further comprises displaying a plurality of different types of options; and

a different tactile feedback is associated with each of the plurality of different types of options.

15. The method of claim 13, wherein:

displaying further comprises displaying a plurality of options in a plurality of different areas of the display; and

a different tactile feedback is associated with each of the plurality of different areas of the display.

16. The method of claim 13, further comprising:

detecting the input directly over the particular selectable option; and

ceasing the identified tactile feedback in response to detecting the input directly over the particular selectable option.

17. The method of claim 13, further comprising:

receiving a user selection of the particular selectable option;