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## (12) United States Patent

Alvarez Rivera et al.

### (54) DEVICES AND METHODS FOR PROVIDING ACCESS TO INTERNAL COMPONENT

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G06F 1/16 (2006.01)

G06F 21/32 (2013.01)

G06F 21/83 (2013.01)

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H04W 12/06 (2009.01)

(52) U.S. Cl.

(58) Field of Classification Search

See application file for complete search history.

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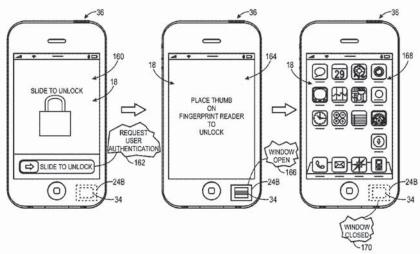
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### (57) ABSTRACT

Systems, methods, and devices are disclosed for applying concealment of components of an electronic device. In one embodiment, an electronic device may include a component that is disposed behind a window configured to selectively become transparent or opaque, such as a polymer-dispersed liquid crystal (PLDC) window. The component includes an image capture device, a strobe flash, a biometric sensor, a light sensor, a proximity sensor, or a solar panel, or a combination thereof. Additionally, the electronic device includes data processing circuitry configured to determine when an event requesting that the component be exposed occurs. Furthermore, the electronic device includes a window controller that may control the window to become transparent, to expose the component upon the occurrence of the event requesting that the component be exposed.

### 18 Claims, 13 Drawing Sheets



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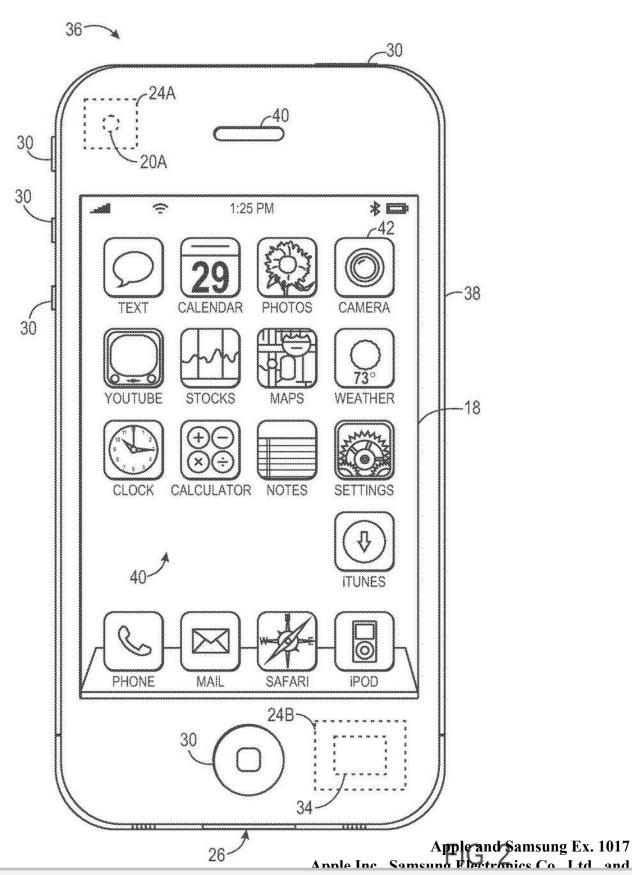
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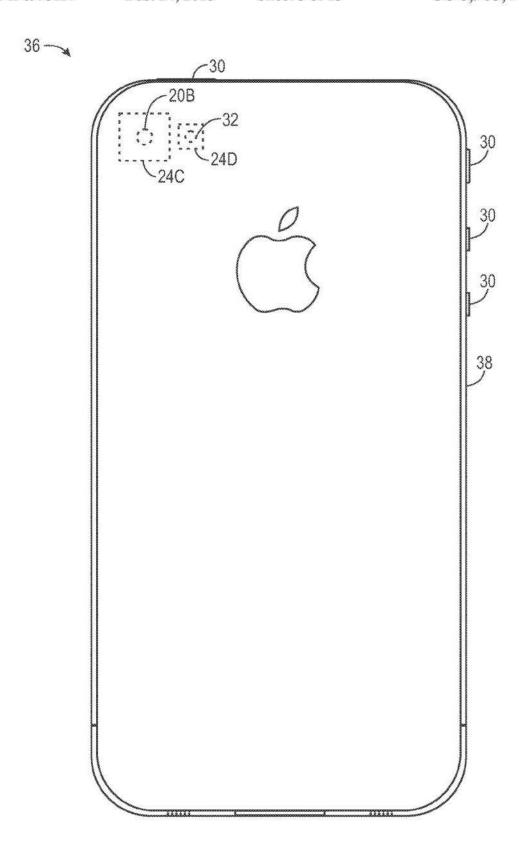
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FIG. 3 Apple Inc. Samsung Electronics Co. Ltd. and



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