

EXHIBIT 2001



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XiaoPing

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- (54) **TWO-PIN BUTTONS**
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G06F 3/041 (2006.01)
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- (52) **U.S. Cl.** **345/173**; 345/174; 345/179; 178/18.01;
178/18.06
- (58) **Field of Classification Search** 345/173
See application file for complete search history.

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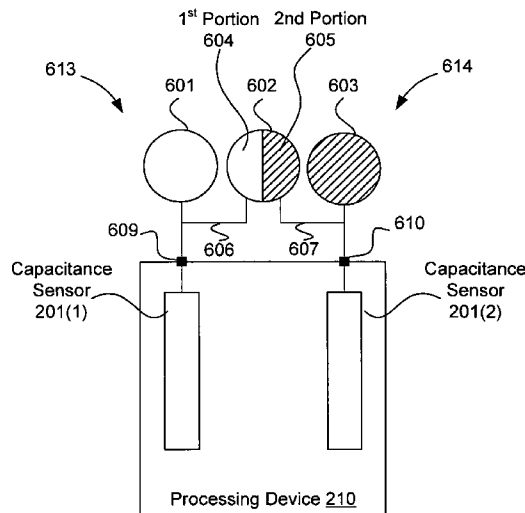
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- (57) **ABSTRACT**

An apparatus and method for detecting a presence of a conductive object on a sensing device, and recognizing three or more button operations performed by the conductive object using two sensing areas of the sensing device. The sensing device may include first, second, and third sensor elements. The third sensor element may include two electrically isolated portions coupled to the first and second sensor elements.

20 Claims, 10 Drawing Sheets



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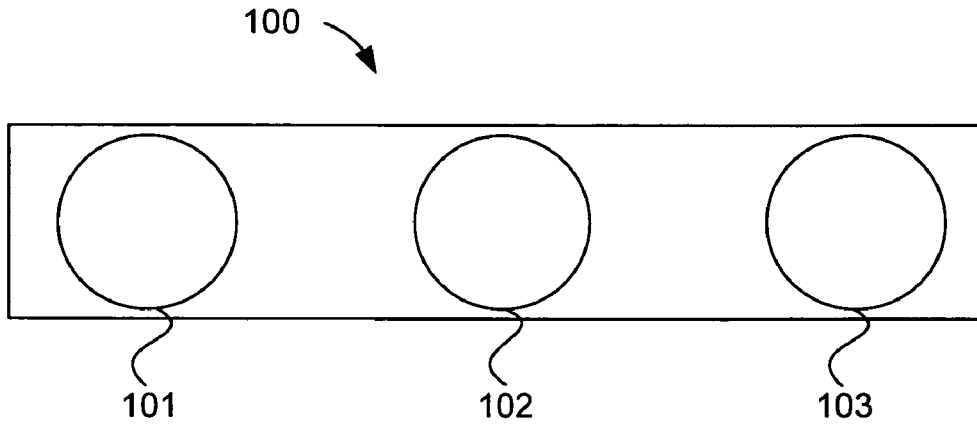


FIG. 1A

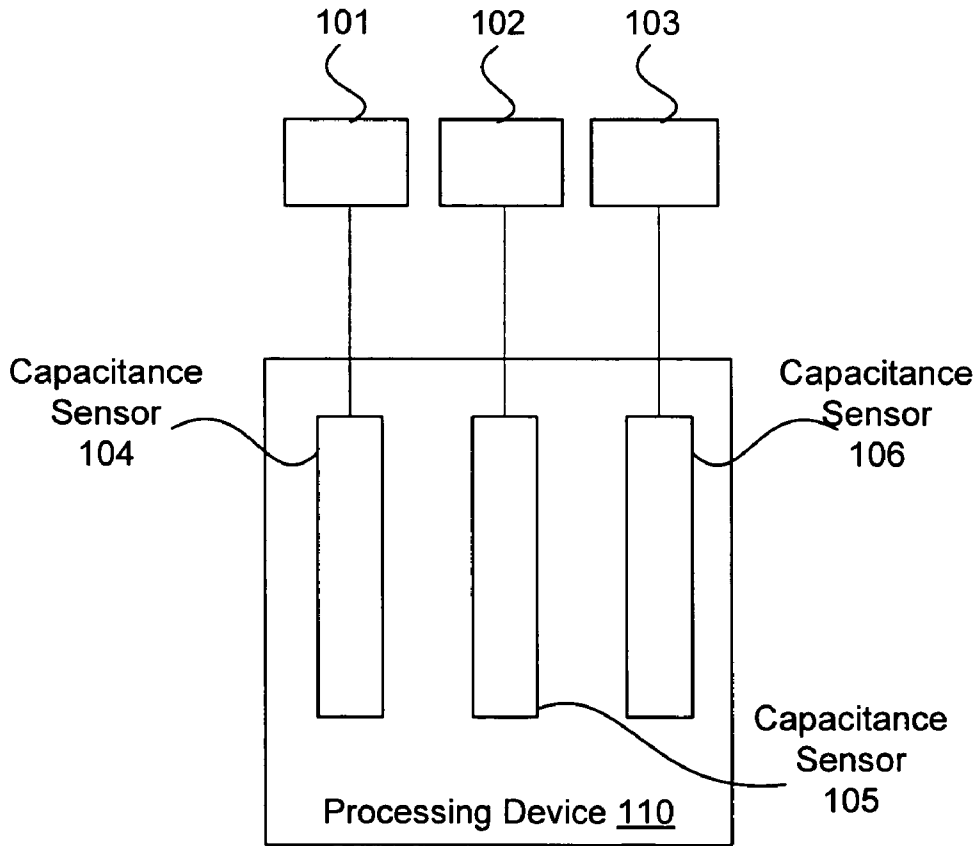


FIG. 1B

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