



US 20100149110A1

(19) **United States**

(12) **Patent Application Publication**
Gray

(10) **Pub. No.: US 2010/0149110 A1**

(43) **Pub. Date: Jun. 17, 2010**

(54) **ARCHITECTURE AND METHOD FOR
MULTI-ASPECT TOUCHSCREEN SCANNING**

(52) **U.S. Cl. 345/173**

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(57) **ABSTRACT**

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Architecture and method for multi-aspect touchscreen scanning. This architectures employs a single type of circuitry capable to perform both signal generation and signal detection for performing both zone scanning and cross point within a touchscreen to identify a user's interaction with the touchscreen and to discriminate actual touch locations on the touchscreen (including multiple, concurrent user touch locations on the touchscreen). This signal generation/detection circuitry can be implemented multiple times within the architecture (e.g., one for providing/detecting signals of conductors aligned in a first direction across the touchscreen, and another for providing/detecting signals of conductors aligned in a second direction across the touchscreen). Moreover, a combination of both zone scanning and cross point within the touchscreen allows for a very accurate discrimination between false/phantom touch locations and actual/real touch locations made by a user interacting with the touchscreen.

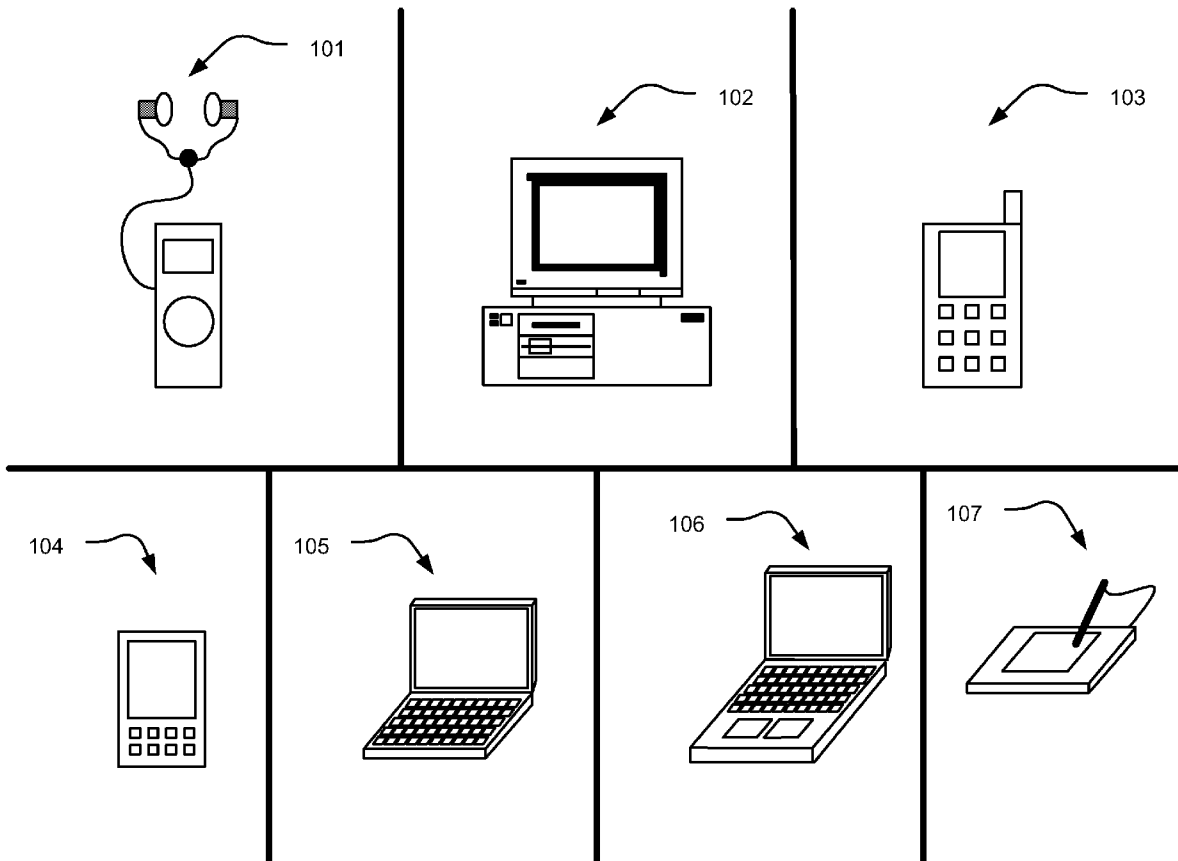
(73) **Assignee: Wacom Co., Ltd., Kita
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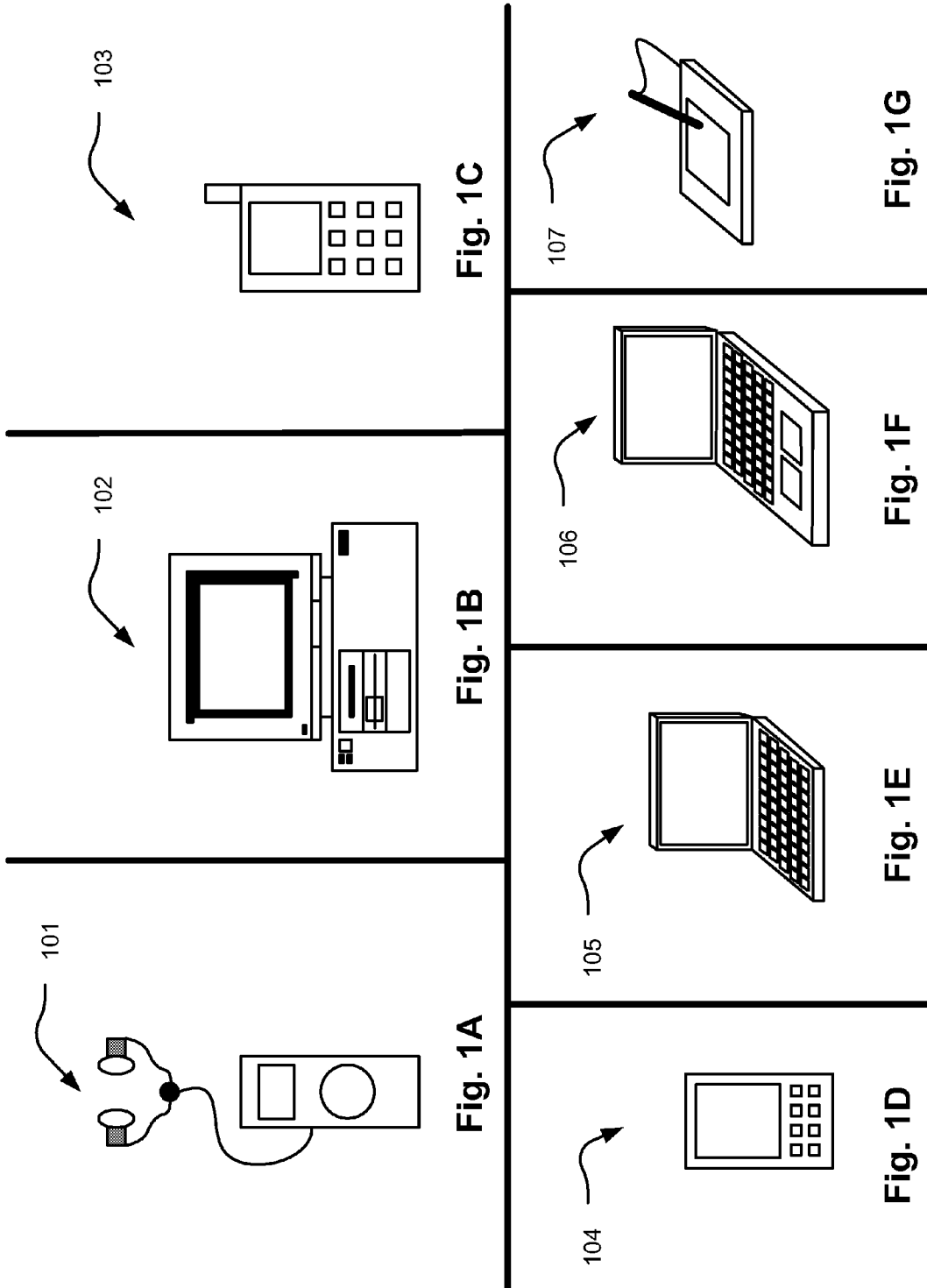
(21) **Appl. No.: 12/333,473**

(22) **Filed: Dec. 12, 2008**

Publication Classification

(51) **Int. Cl. G06F 3/041 (2006.01)**





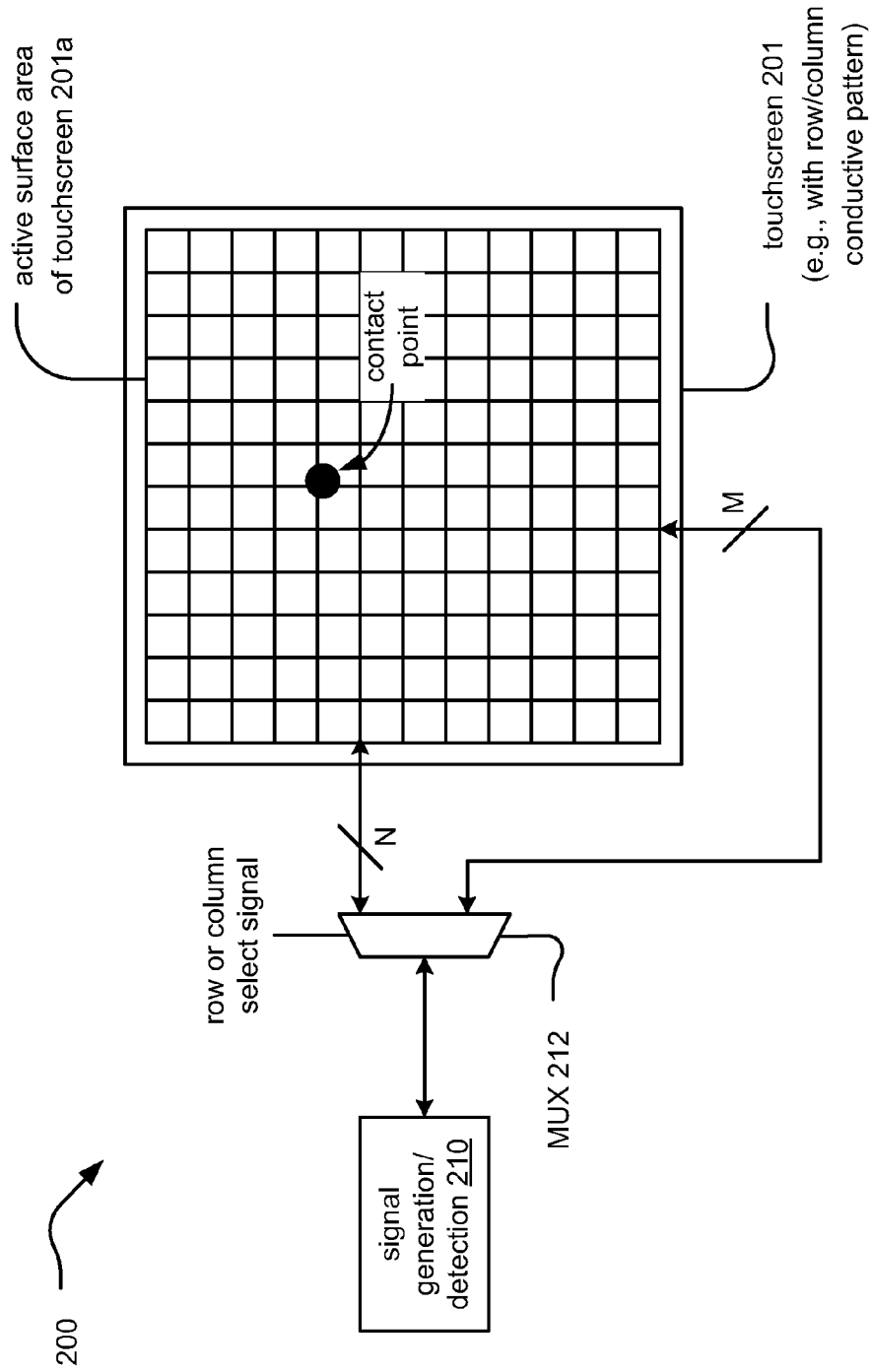


Fig. 2

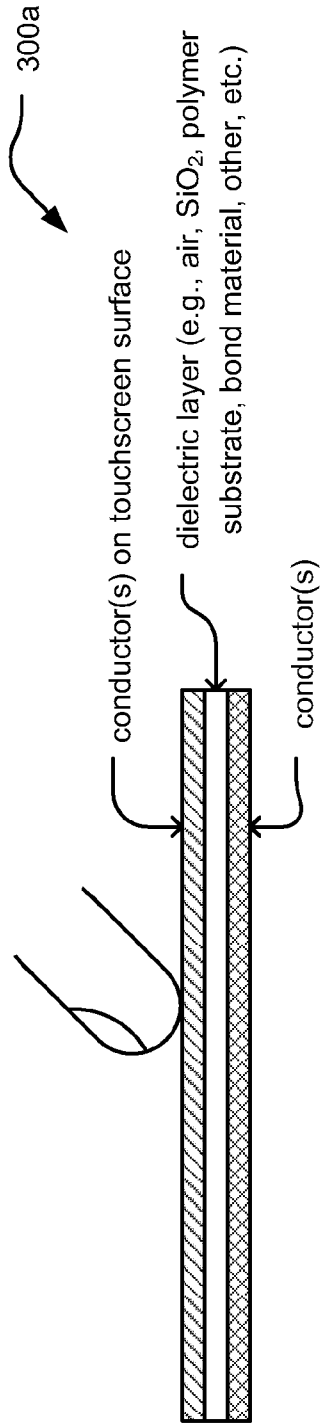


Fig. 3A

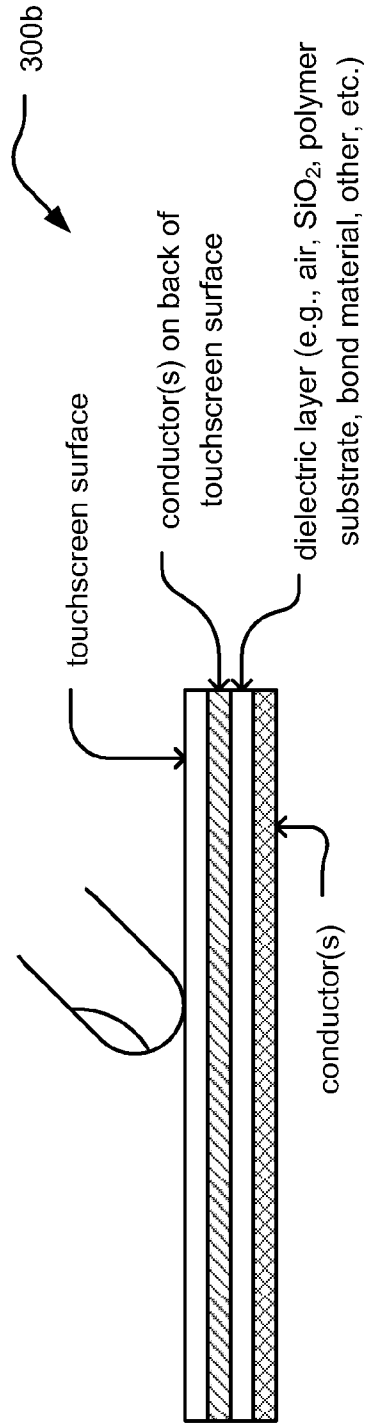


Fig. 3B

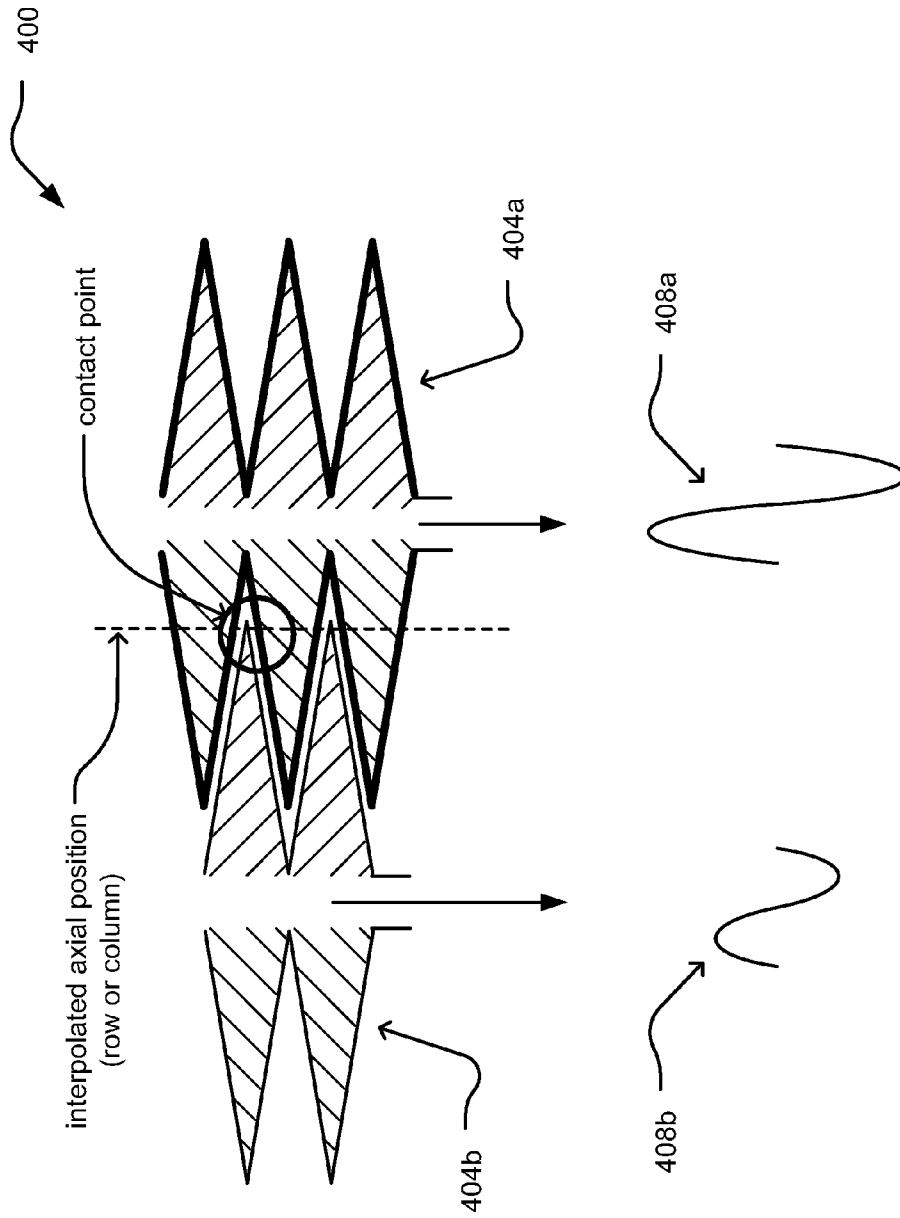


FIG. 4

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