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14/316,177 26 June 2014 (26.06.2014) US(71) Applicant: **TACTUAL LABS CO.** [US/US]; 160 Wooster Street, Penthouse B, New York, New York 10012 (US).(72) Inventors: **LEIGH, Darren**; 17615 Greenleaf Place, Round Hill, Virginia 20141 (US). **FORLINES, Clifton**; 395 Clinton Street, Toronto, Ontario M6G 2Z1 (CA). **SANDERS, Steven Leonard**; 160 Wooster Street, Penthouse B, New York, New York 10012 (US). **WIGDOR, Daniel**; 216 Wright Avenue, Toronto, Ontario M6R 1L3 (CA). **COSTA, Ricardo Jorge Jota**; 589-B Wellington Street West, Toronto, Ontario M5V 2R6 (CA).(74) Agents: **KURTZ, Richard** et al.; 450 So. Orange Ave., Suite 650, Orlando, Florida 32801 (US).

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(54) Title: LATENCY MEASURING AND TESTING SYSTEM AND METHOD

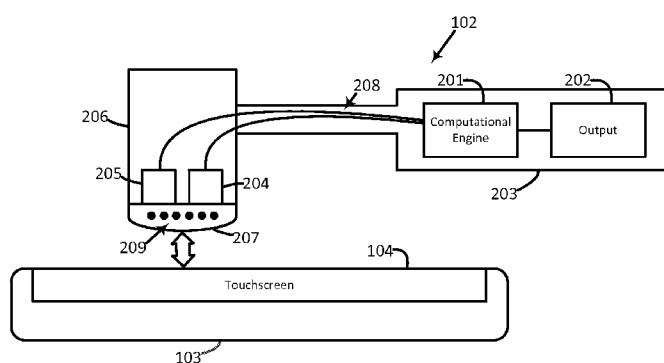


FIG. 1

(57) Abstract: A system and method are disclosed for measuring latency in a device which includes a user interface that receives user input and provides output in response. In an embodiment, a body separate from the device under test is provided. A first sensor operatively attached to the body detects a touch event input to the device at a first time and a second sensor detects a response output from the device at a second time. A computational engine computes a time differential between the first time and the second time and an output outputs an indication of a measurement of latency in the device, the measurement being reflective of the time differential between the first time and the second time. In an embodiment, a device holder is configured to receive the device under test. A mechanical motor is configured to move a proxy device with respect to the device under test. A ground-truth measurement apparatus configured to record input proxy device movement with respect to the device under test and to record a representation of movement generated by a test application running on the device under test.