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(54) **TOUCH SCREEN STACK-UP PROCESSING**

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(75) Inventors: **Steve Porter Hotelling**, San Jose, CA (US); **Brian Richards Land**, Redwood City, CA (US); **Mark Arthur Hamblin**, San Francisco, CA (US)

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Correspondence Address:
APPLE C/O MORRISON AND FOERSTER, LLP
LOS ANGELES
555 WEST FIFTH STREET SUITE 3500
LOS ANGELES, CA 90013-1024

(57) **ABSTRACT**

A multi-touch sensor panel is disclosed that can be produced by forming a plurality of first traces of substantially transparent conductive material on a first substrate, forming a plurality of second traces of the substantially transparent material, and creating a fluid-tight gap between the plurality of first traces and the plurality of second traces. The fluid-tight gap can then be filled with a fluid having substantially no bubbles and an optical index similar to the optical index of the first and second traces to make the gap and the first and second traces substantially transparent. The second and first traces can be oriented to cross over each other at crossover locations separated by the fluid, the crossover locations forming mutual capacitance sensors for detecting touches.

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

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