US 20060197752A1

(19) United States

(12) Patent Application Publication

(10) Pub. No.: US 2006/0197752 A1

(43) Pub. Date: Sep. 7, 2006

Hurst et al.

(54) MULTIPLE-TOUCH SENSOR

(76) Inventors: **G. Samuel Hurst**, Knoxville, TN (US); **Robert J. Warmack**, Knoxville, TN (US); **Rufus H. Richie**, Oak Ridge, TN (US); **Donald W. Bouldin**, Brentwood, TN (US); **David Ritchie**, Peachtree City, GA (US)

Correspondence Address:
Michael E. McKee
Attorney at Law
804 Swaps Lane
Knoxville, TN 37923 (US)

(21) Appl. No.: **11/356,431**

(22) Filed: **Feb. 16, 2006**

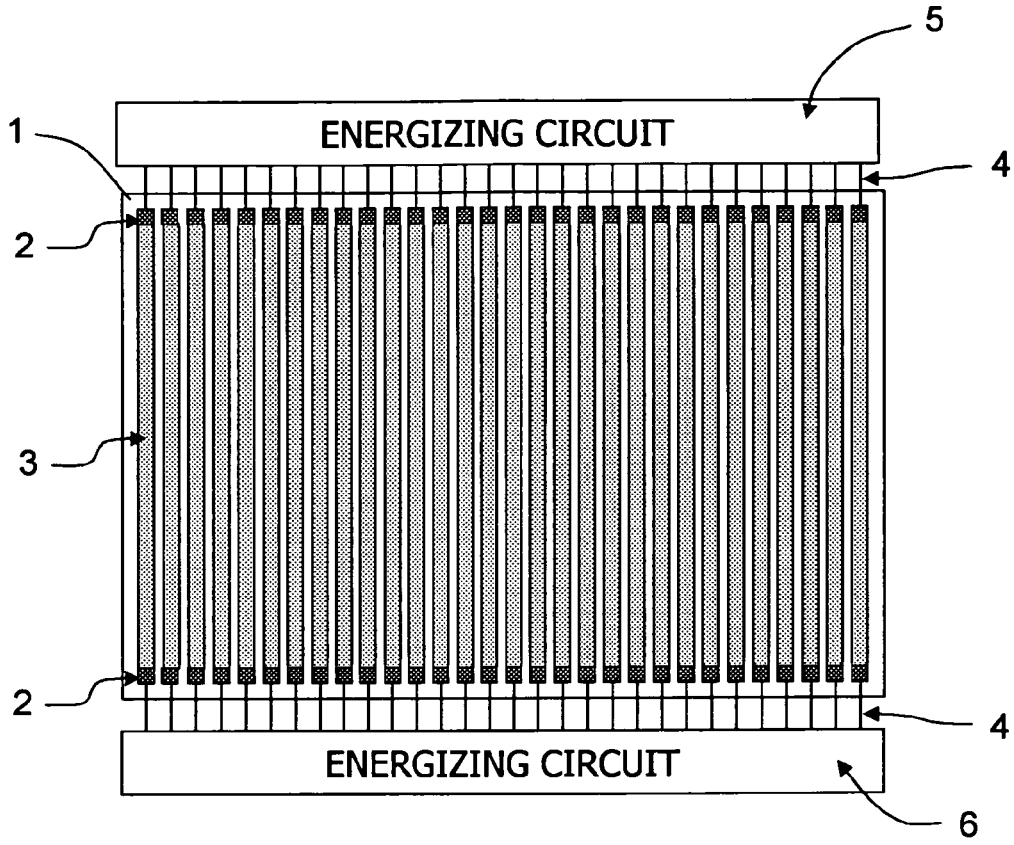
Related U.S. Application Data

(60) Provisional application No. 60/653,893, filed on Feb. 17, 2005.

Publication Classification

(51) **Int. Cl.**
G09G 5/00 (2006.01)

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

(57) **ABSTRACT**

A touch sensor method and device are described that allow one or more simultaneous touches to be sensed and mapped to Cartesian coordinates. The device utilizes closely spaced multiple conducting strips to provide digital location of a touch position according to the position strip and analog location along the length of the strip. When the strips are energized individually and in coordinated ways, multiple touches are individually sensed and their positions are reported.