



US 20070078919A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2007/0078919 A1**

Westerman et al. (43) **Pub. Date: Apr. 5, 2007**

(54) **MULTI-TOUCH HAND POSITION OFFSET COMPUTATION**

No. 09/919,266, filed on Jul. 31, 2001, now Pat. No. 6,888,536, which is a division of application No. 09/236,513, filed on Jan. 25, 1999, now Pat. No. 6,323,846.

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(60) Provisional application No. 60/072,509, filed on Jan. 26, 1998.

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Publication Classification

(51) **Int. Cl.**
G06F 15/00 (2006.01)
(52) **U.S. Cl.** **708/200**

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(57) **ABSTRACT**

(21) Appl. No.: **11/559,833**

Apparatus and methods are disclosed for simultaneously tracking multiple finger and palm contacts as hands approach, touch, and slide across a proximity-sensing, multi-touch surface. Identification and classification of intuitive hand configurations and motions enables unprecedented integration of typing, resting, pointing, scrolling, 3D manipulation, and handwriting into a versatile, ergonomic computer input device.

(22) Filed: **Nov. 14, 2006**

Related U.S. Application Data

(60) Continuation of application No. 11/015,434, filed on Dec. 17, 2004, which is a continuation of application

