



US 20050110768A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0110768 A1**

Marriott et al.

(43) **Pub. Date: May 26, 2005**

(54) **TOUCH PAD FOR HANDHELD DEVICE**

Publication Classification

(76) Inventors: **Greg Marriott**, Palo Alto, CA (US);
Guy Bar-Nahum, San Francisco, CA (US); **Steven Bollinger**, San Jose, CA (US)

(51) **Int. Cl.⁷ G09G 5/00**

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

(57) **ABSTRACT**

Correspondence Address:
BEYER WEAVER & THOMAS LLP
P.O. BOX 70250
OAKLAND, CA 94612-0250 (US)

A touch pad system is disclosed. The system includes mapping the touch pad into native sensor coordinates. The system also includes producing native values of the native sensor coordinates when events occur on the touch pad. The system further includes filtering the native values of the native sensor coordinates based on the type of events that occur on the touch pad. The system additionally includes generating a control signal based on the native values of the native sensor coordinates when a desired event occurs on the touch pad.

(21) Appl. No.: **10/722,948**

(22) Filed: **Nov. 25, 2003**

