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(54) **RAW DATA TRACK PAD DEVICE AND SYSTEM**

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(75) Inventors: **Benjamin Lyon**, San Jose, CA (US);  
**Stephanie Cinereski**, Sunnyvale, CA (US);  
**Chad Bronstein**, San Francisco, CA (US);  
**Steven P. Hotelling**, San Jose, CA (US)

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(57) **ABSTRACT**

An input device and system are described that acquires (measures) raw track pad sensor data and transmits this data to a host computer where it is analyzed by an application executing on one or more host computer central processing units. The resulting input processing architecture provides a track pad input device that is both lower in cost to manufacture and more flexible than prior art track pad input devices. Lower costs may be realized by eliminating the prior art's dedicated track pad hardware for processing sensor data (e.g., a processor and associated firmware memory). Increased flexibility may be realized by providing feature set functionality via software that executes on the host computer. In this architecture, track pad functionality may be modified, updated and enhanced through software upgrade procedures.

Correspondence Address:  
**WONG, CABELLO, LUTSCH, RUTHERFORD & BRUCCULERI, P.C.**  
**20333 SH 249 SUITE 600 HOUSTON, TX 77070 (US)**

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

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