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Brown

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(54) **OPTICAL HEADSET USER INTERFACE**

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(73) Assignee: **Plantronics, Inc.**, Santa Cruz, CA (US)

Gregory, Peter; Doria, Tom; Stegh, Chris; Su, Jim; SIP Commu-
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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 103 days.

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(21) Appl. No.: **11/906,803**

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(51) **Int. Cl.**
G06K 7/14 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** **235/454**; 379/428.02; 455/73

A headset includes a finger pad on an exterior of the headset
on which a finger of a headset wearer is placed. The headset
includes an optical line scanner which scans the finger pad
and outputs a series of successive images of the finger placed
on the finger pad. A headset processor processes the output of
the optical line scanner to detect relative motion of the finger
on the finger pad or detect tapping of the finger on the finger
pad.

(58) **Field of Classification Search** 235/454;
379/428.02

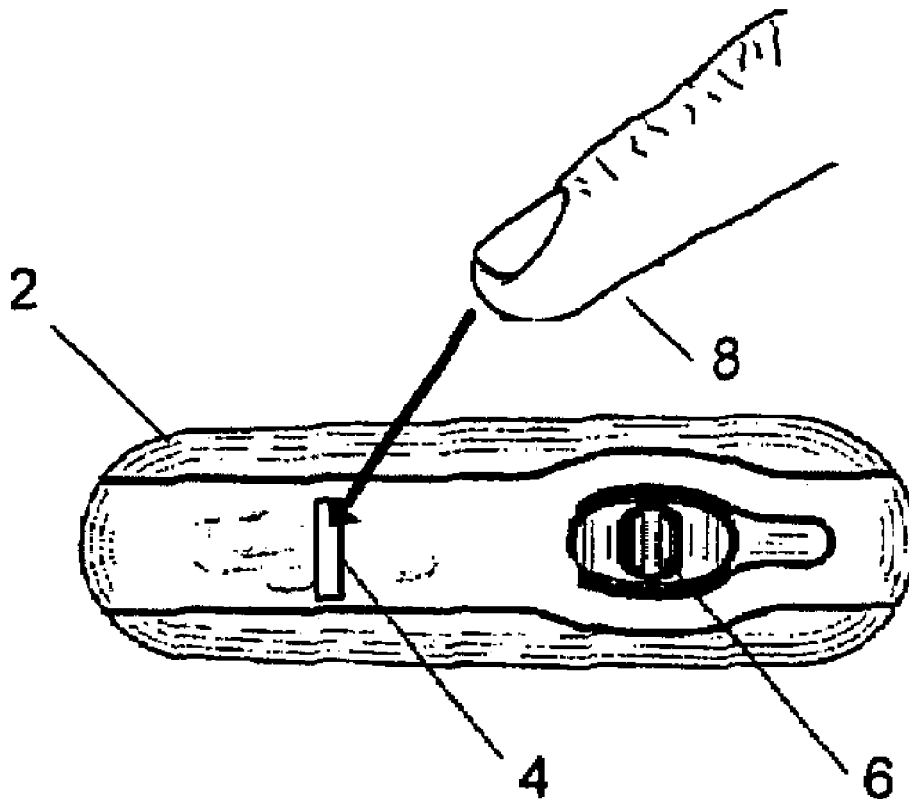
See application file for complete search history.

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20 Claims, 5 Drawing Sheets



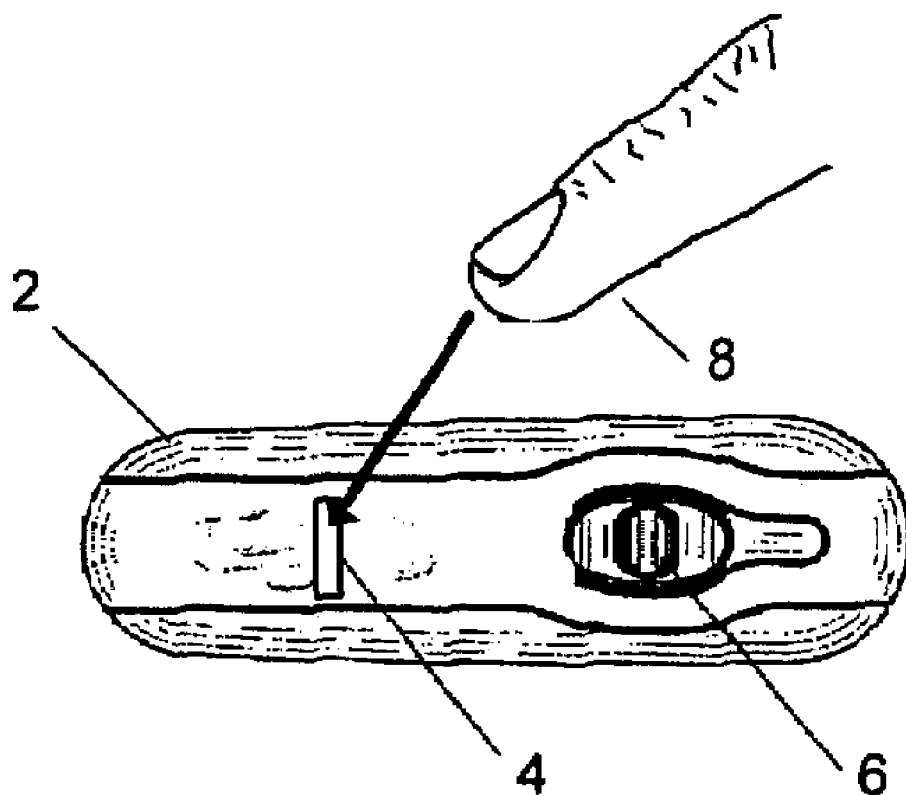


FIG. 1

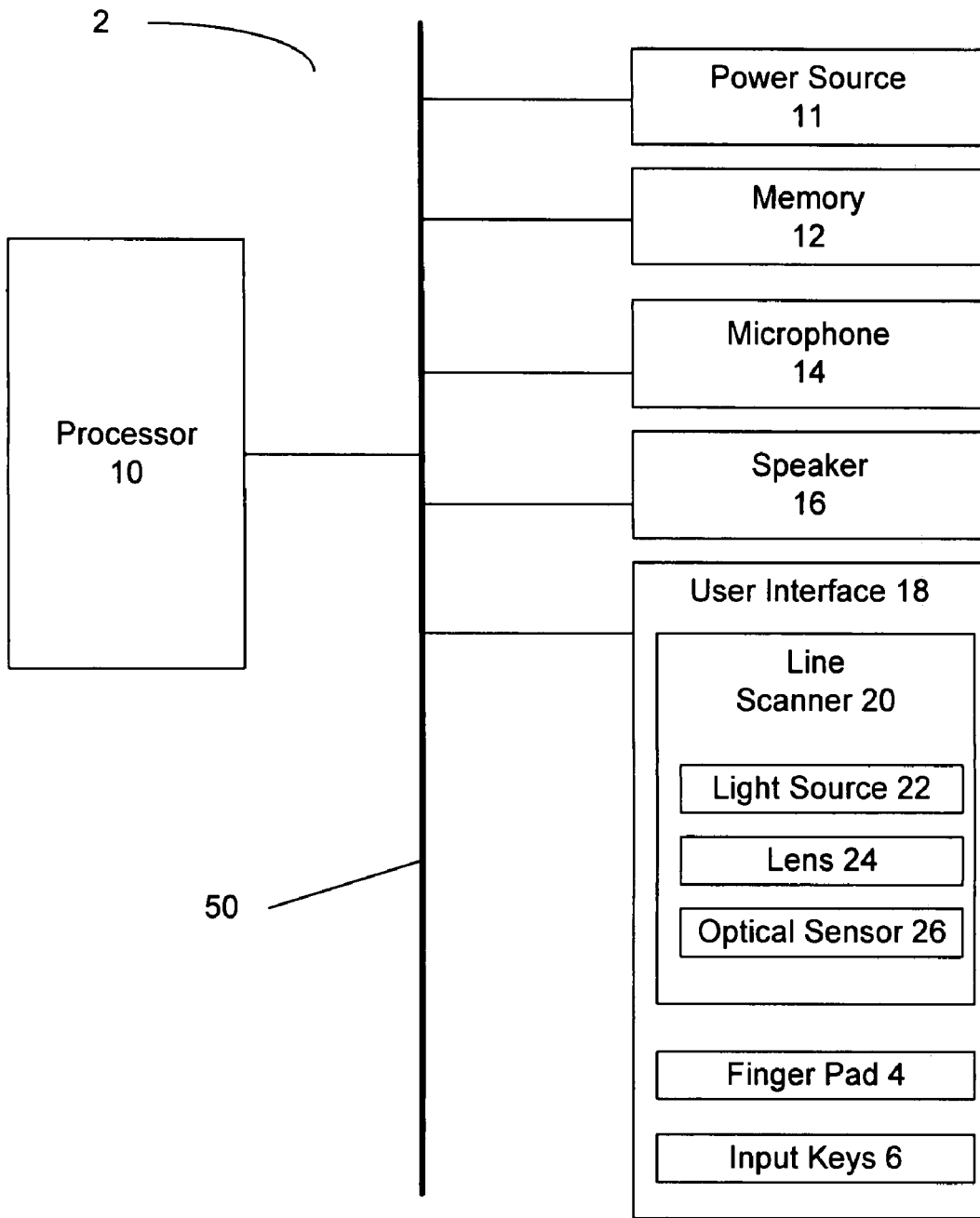


FIG. 2

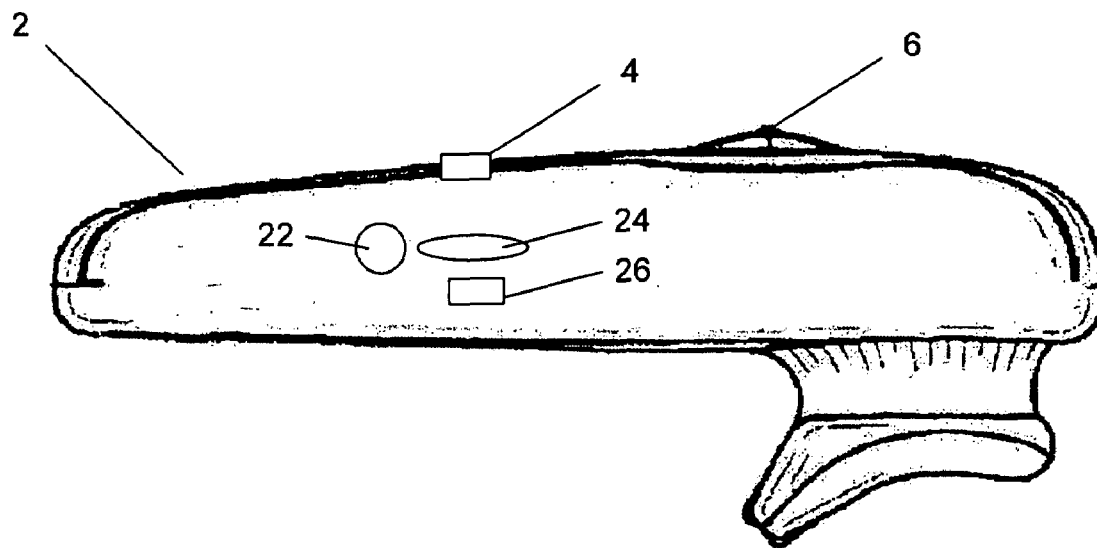


FIG. 3

Line Scanner for Scrolling

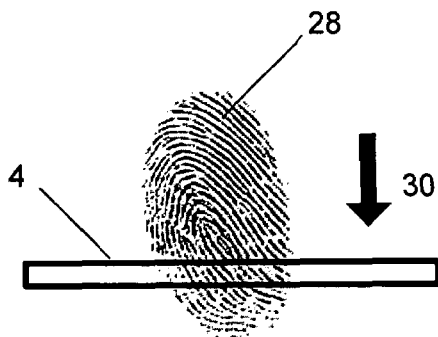


FIG. 4A

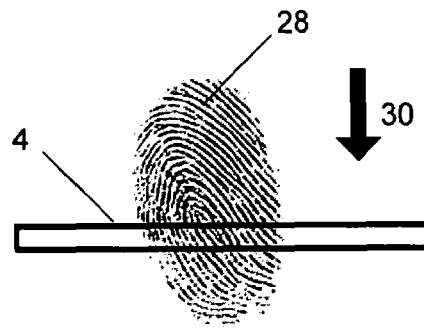


FIG. 4B



FIG. 4C



FIG. 4D

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