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[54] LCD TOUCH SCREEN

[75] Inventor: Gregory J. May, Corvallis, Oreg.

[73] Assignee: Hewlett-Packard Company, Palo Alto, Calif.

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[58] Field of Search 340/706, 712, 707; 341/23, 31; 250/221

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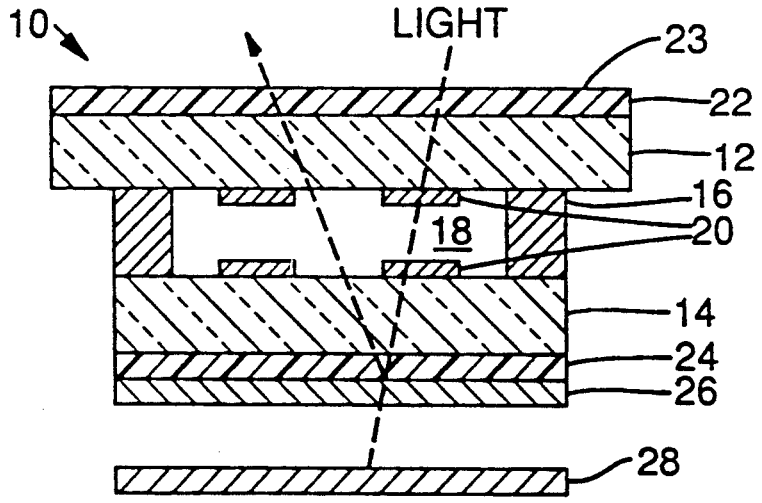
Primary Examiner—Jeffery A. Brier
Assistant Examiner—Regina Liang

[57] ABSTRACT

A touch screen includes a liquid crystal display (LCD) having a viewing surface through which light passes into and out of the display and a back surface comprising a transflector such as transflective film. The transflector reflects some of the light back through the display and viewing surface and transmits some of the light. An array of light dependent resistors (LDRs) or equivalent light detecting devices underlie the transflector and detect a change in the transmitted light caused by a touching of the viewing surface. The light detecting array may be integrated into a keyboard interface. Keys are then displayed on the viewing surface opposite LDRs in the array to indicate where the viewing surface must be touched to actuate a key.

15 Claims, 2 Drawing Sheets