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Deitch et al.

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[54] **OPTICAL GATING SCHEME FOR DISPLAY TOUCH CONTROL**

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[58] **Field of Search** ..... 340/127, 365 P, 365 VL, 340/794, 795, 796, 707, 708; 178/18–20; 250/221, 549, 222.1

[56] **References Cited**

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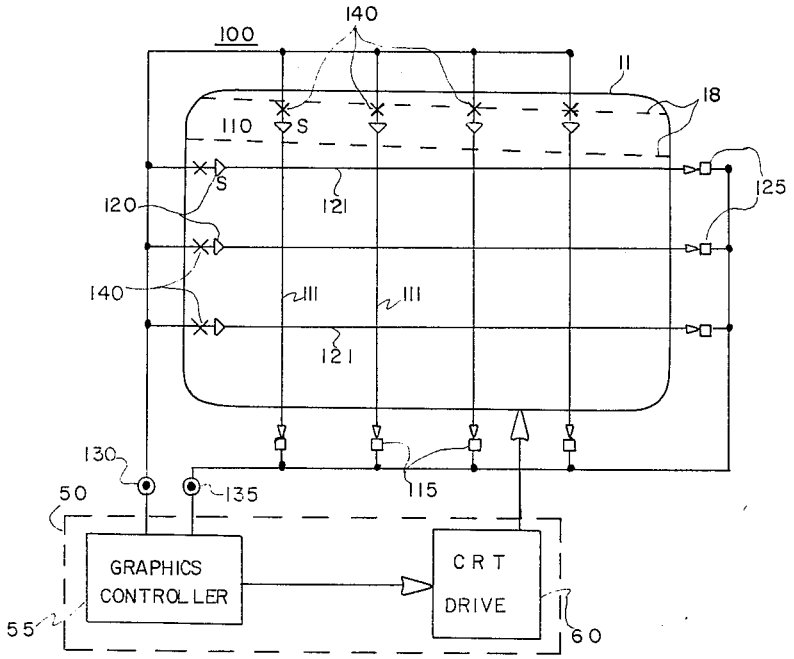
[57] **ABSTRACT**

A touch-operated display for a CRT faceplate includes a plurality of optical gates for energizing light-emitting diodes in response to generation of the CRT raster thus eliminating the need for external switching of the beam generating means to produce the grid of crossing light paths. A frame is disclosed for mounting the light sources, detectors and common optical gates—all of which take the form of silicon chips.

22 Claims, 9 Drawing Figures