



- [54] TOUCH-PAD DIGITAL COMPUTER POINTING-DEVICE
- [75] Inventors: Sterling S. Du, Palo Alto; Yung-Yu Joe Lee, San Jose, both of Calif.
- [73] Assignee: 02 Micro, Inc., Santa Clara, Calif.
- [21] Appl. No.: 549,422
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- [51] Int. Cl.⁶ G09G 5/08
- [52] U.S. Cl. 345/145; 345/157; 345/173
- [58] Field of Search 345/157, 158, 345/159, 173, 174, 175, 179, 180, 145

Primary Examiner—Steven J. Saras
 Assistant Examiner—David Lewis
 Attorney, Agent, or Firm—Donald E. Schreiber

[57] ABSTRACT

A touch-pad digital computer pointing-device, for controlling a position of a cursor appearing on a display screen of a digital computer, senses and resolves respective locations within an active area at which concurrent multi-finger contacts occur. Multi-finger contacts with the active area activate or deactivate a drag-lock operating mode, computer power conservation, and other touch-pad operating characteristics such as the touch-pad's sensitivity to finger contact. The touch-pad also senses a velocity and direction for finger contact with the active area for use in transmitting data to the computer which effects continuous cursor movement across the computer's display screen in a direction fixed by the initial direction of contact movement across the active area. While there is no finger contact with the active area, the touch-pad monitors the active area and adjusts its operation to compensate for changes in the surrounding environment such as changes in temperature, humidity and atmospheric pressure.

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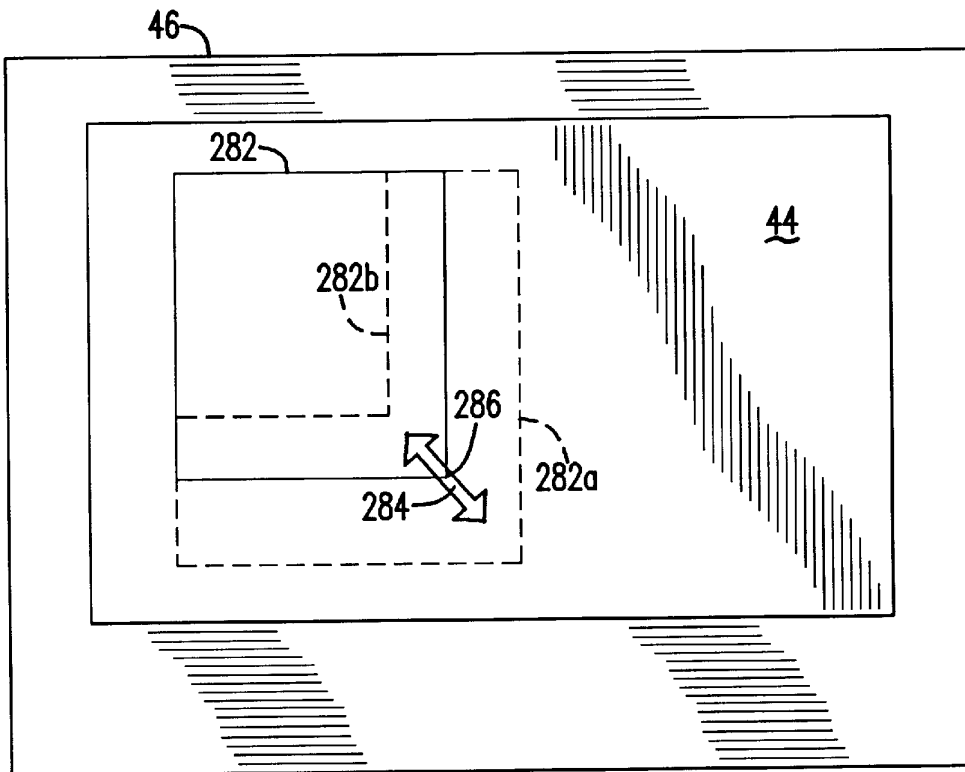
U.S. PATENT DOCUMENTS

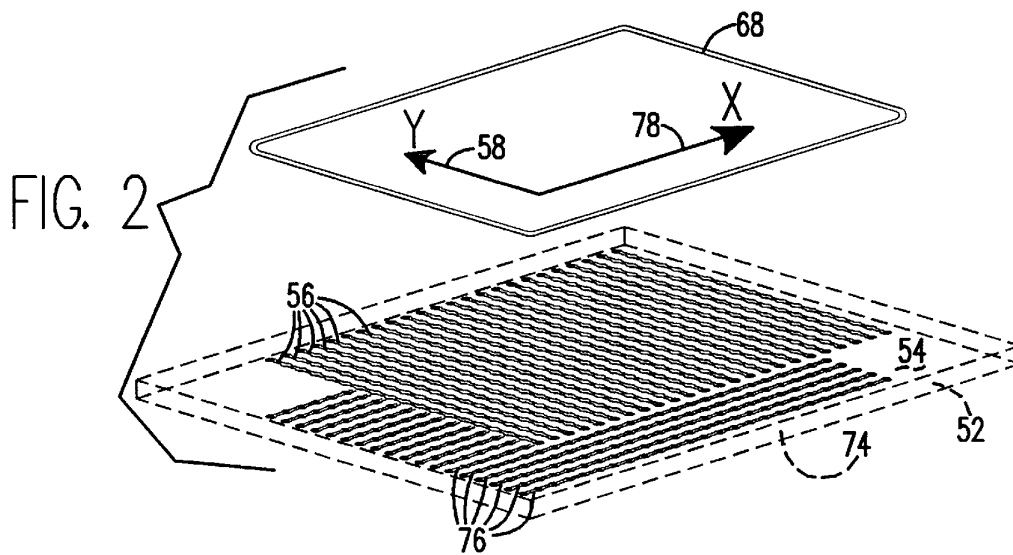
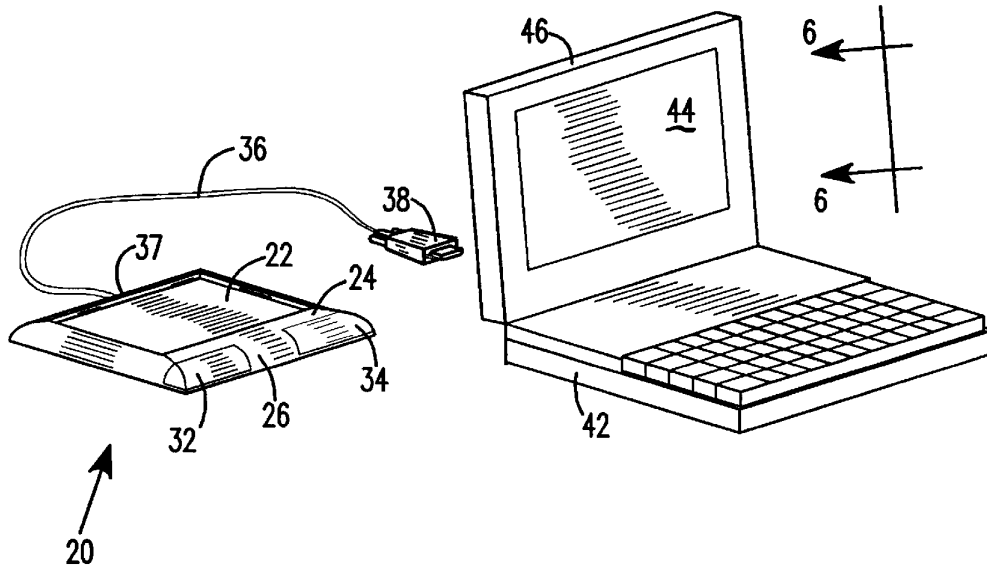
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1 Claim, 5 Drawing Sheets





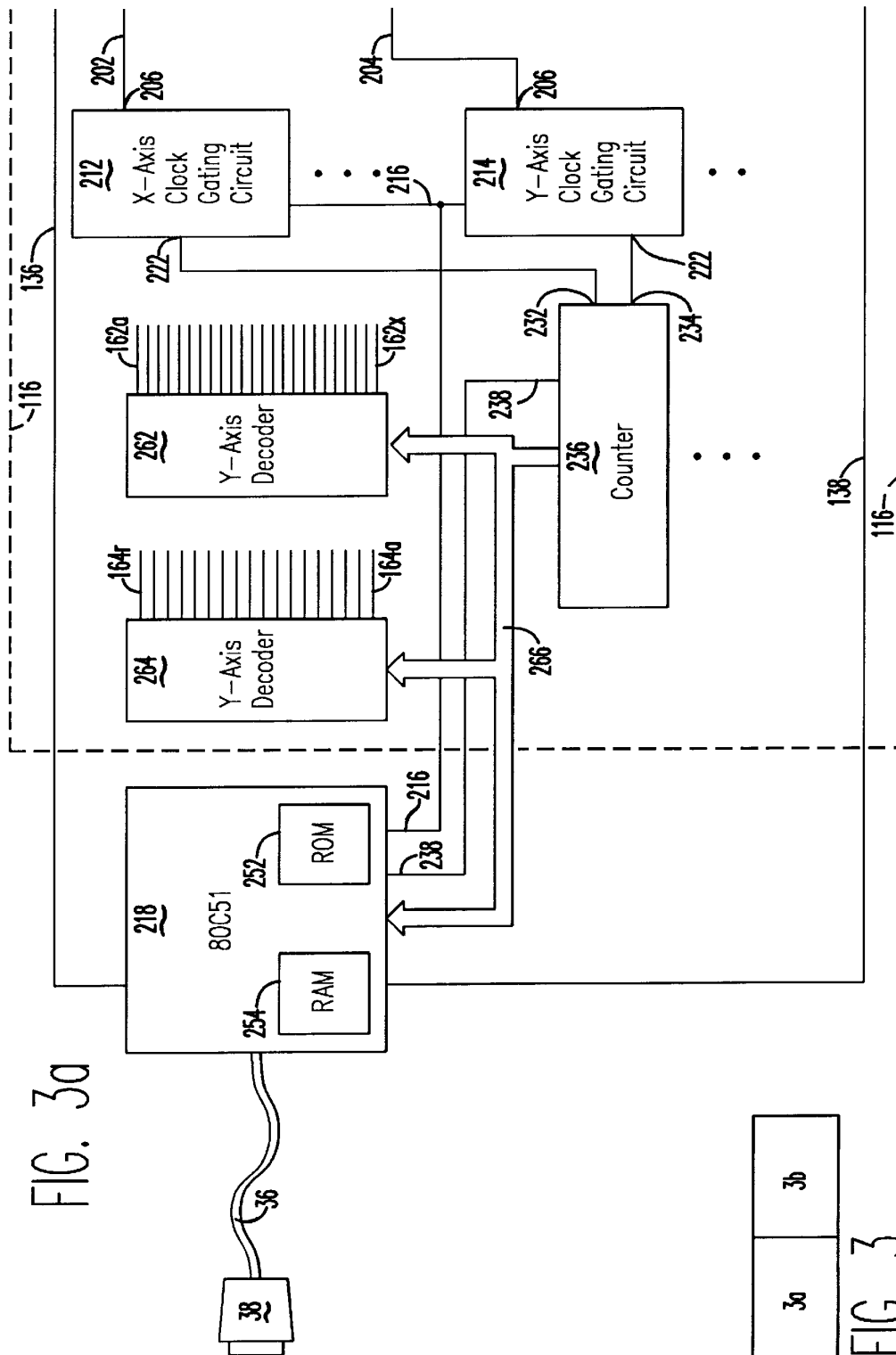


FIG. 3a



FIG. 3

FIG. 4

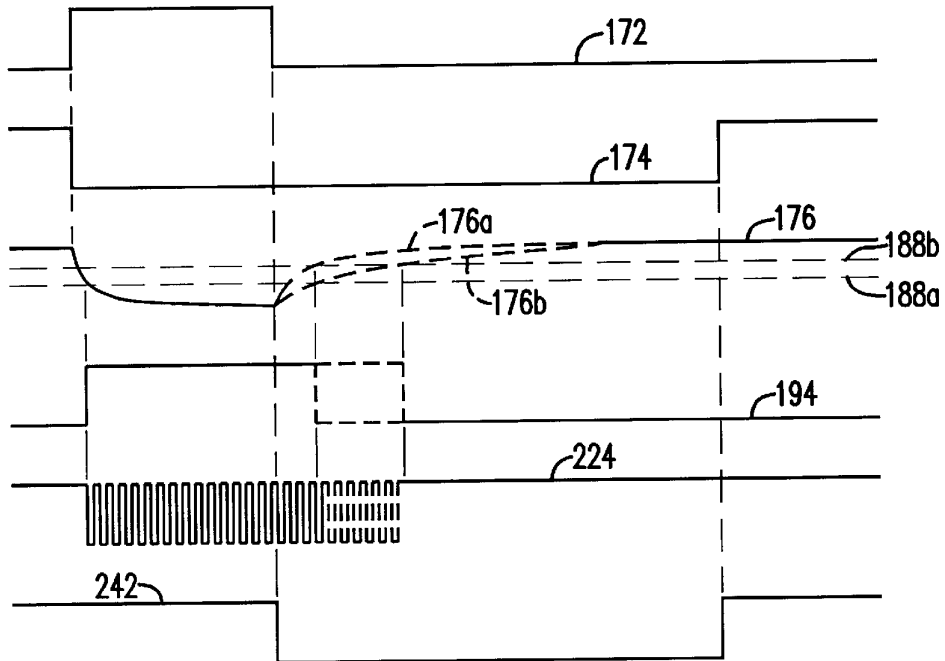
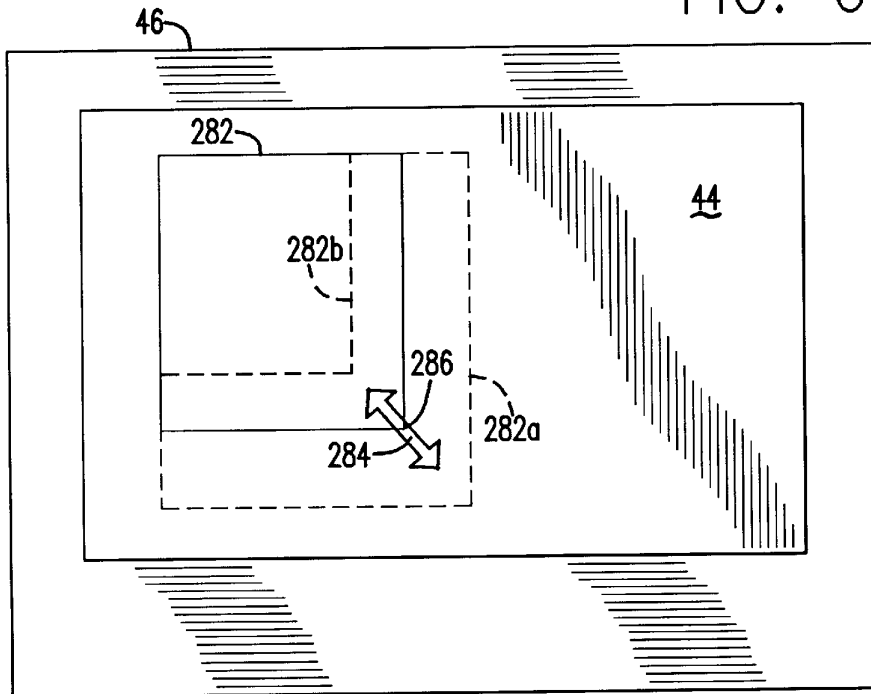


FIG. 6



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