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United States Patent [19]

Gerpheide

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[54]	METHODS AND APPARATUS FOR DATA INPUT				
[76]	Inventor:		ge E. Gerpheide, 3481 S. Monte le Dr., Salt Lake City, Utah		
[21]	Appl. No.:	914,0	43		
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Related U.S. Application Data					
[63]	Continuation of Ser. No. 754,329, Sep. 4, 1991, which is a continuation of Ser. No. 394,566, Aug. 16, 1989.				
[51]	Int. Cl.5		G09G 3/02		
[52]	U.S. Cl				
[58]	Field of Search 340/706, 709, 710, 712;				
			3; 178/18, 19; 345/173, 174, 168		
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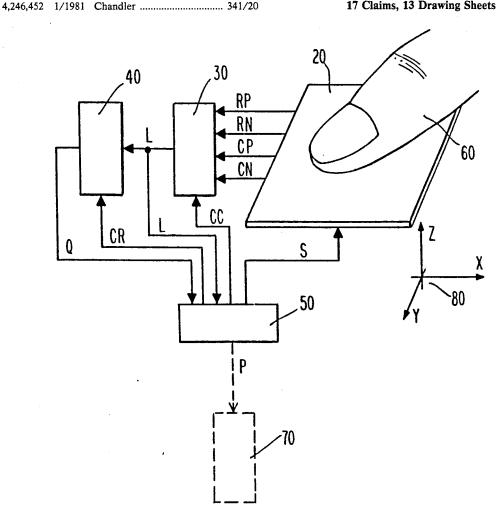
Primary Examiner-Ulysses Weldon Assistant Examiner-M. Fatahiyar

Attorney, Agent, or Firm-Thorpe North & Western

ABSTRACT

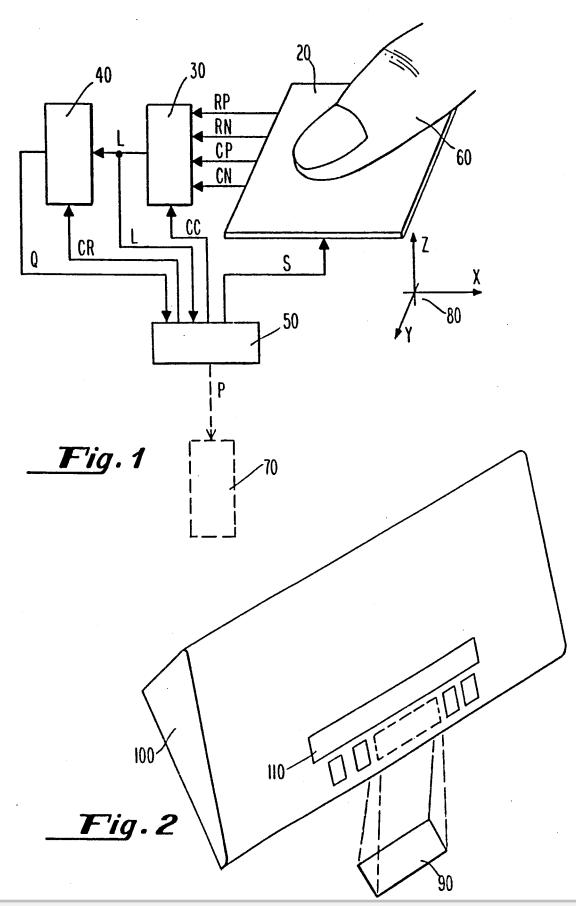
Methods and apparatus for data input. Devices are provided in accordance with this invention which utilize capacitive coupling of an object to the device to sense the object's position. The devices are comprised of a plurality of electrode strips which form virtual electrodes. The virtual electrodes are selectively connected to form virtual dipole electrodes which are responsive to the object's position.

17 Claims, 13 Drawing Sheets

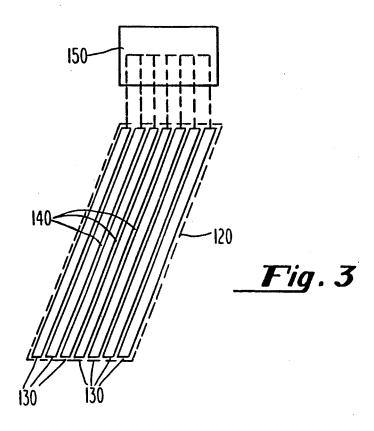




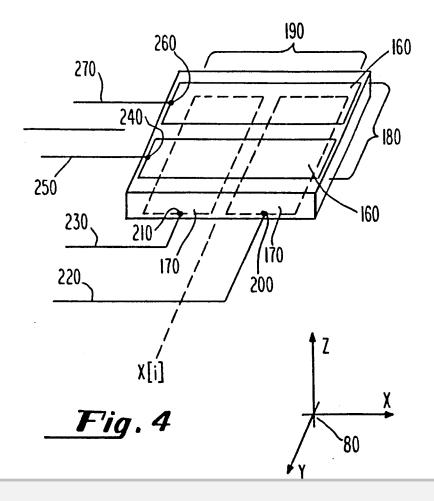
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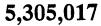


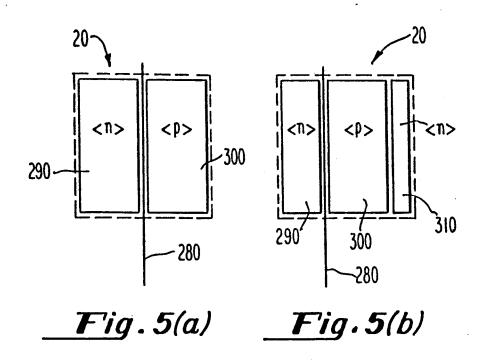


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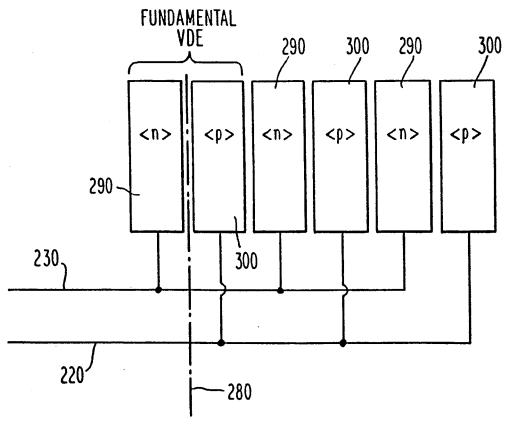


Fig. 6



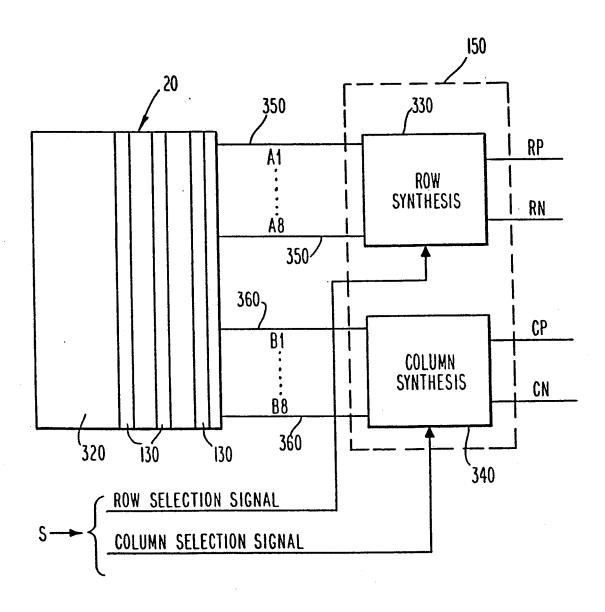


Fig. 7

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