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## United States Patent [19]

## Gerpheide

[56]

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5,305,017

[54]	METHODS AND APPARATUS FOR DATA INPUT				Ng et al Smith	
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[76]	Inventor:	George E. Gerpheide, 3481 S. Monte	, ,		Moore 178/18	
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[22]	Filed:	Jul. 13, 1992			Alexander 341/33	
Related U.S. Application Data			Primary Examiner—Ulysses Weldon			
[63]	Continuation of Ser. No. 754,329, Sep. 4, 1991, which is a continuation of Ser. No. 394,566, Aug. 16, 1989.		Assistant Examiner—M. Fatahiyar Attorney, Agent, or Firm—Thorpe North & Western			
[51]	Int. Cl. <sup>5</sup>		[57]		ABSTRACT	
			Methods and apparatus for data input. Devices are pro-			
[52]						
[58]	l Field of Search 340/706, 709, 710, 712. vide			ided in accordance with this invention which utilize		

341/20, 23; 178/18, 19; 345/173, 174, 168

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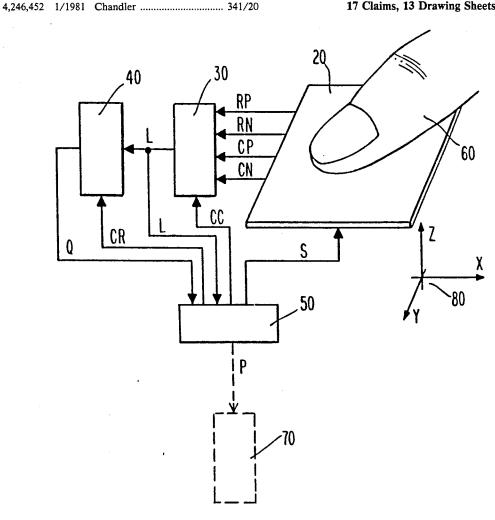
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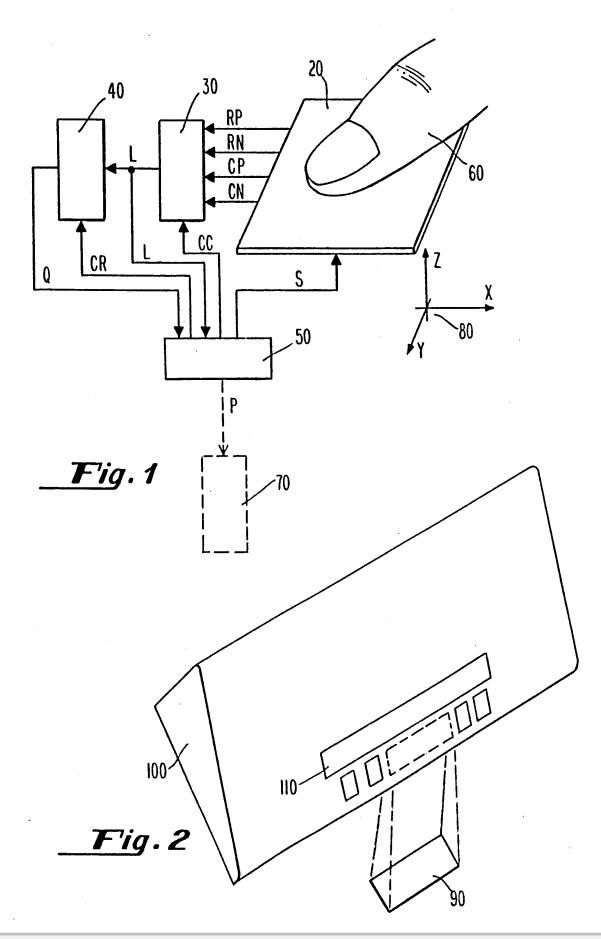
evices are pron which utilize capacitive coupling of an object to the device to sense the object's position. The devices are comprised of a plurality of electrode strips which form virtual electrodes. The virtual electrodes are selectively connected to form virtual dipole electrodes which are responsive to the object's position.

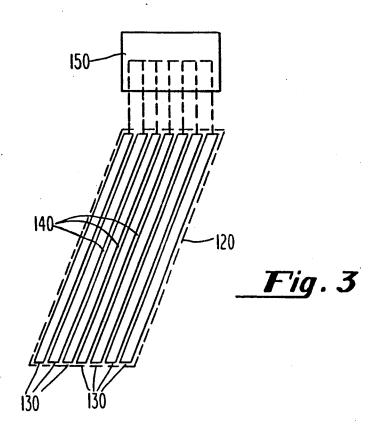
### 17 Claims, 13 Drawing Sheets



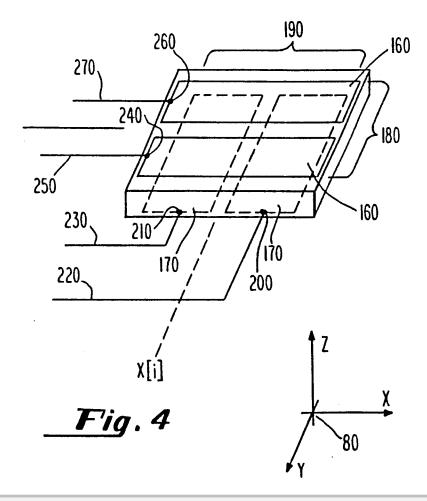


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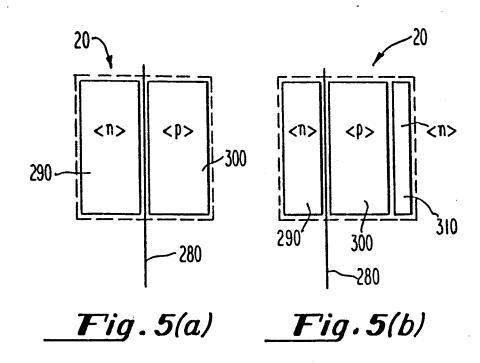




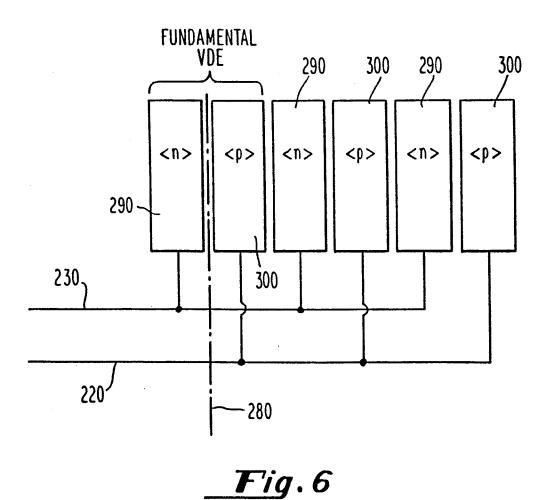
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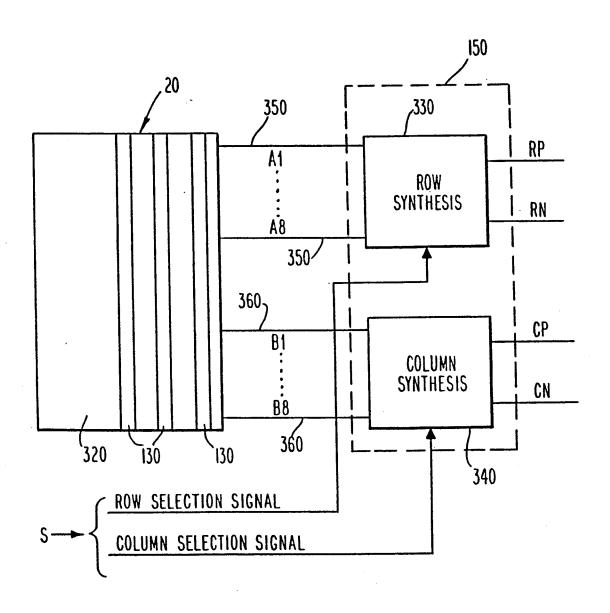


Fig. 7

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