

## United States Patent [19]

### Gerpheide

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Apr. 19, 1994

[54]	METHODS AND APPARATUS FOR DATA INPUT			
[76]	Inventor:	George E. Gerpheide, 3481 S. Monte Verde Dr., Salt Lake City, Utah 84109		
[21]	Appl. No.:	914,043		
[22]	Filed:	Jul. 13, 1992		
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] [52] [58]	U.S. Cl Field of Sea			
[56]		References Cited		
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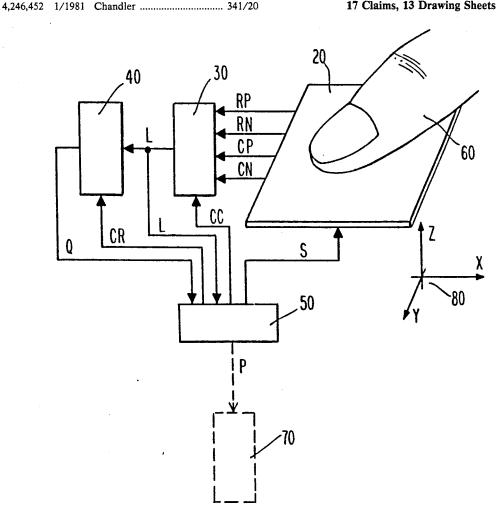
Primary Examiner-Ulysses Weldon Assistant Examiner-M. Fatahiyar

Attorney, Agent, or Firm-Thorpe North & Western

#### ABSTRACT

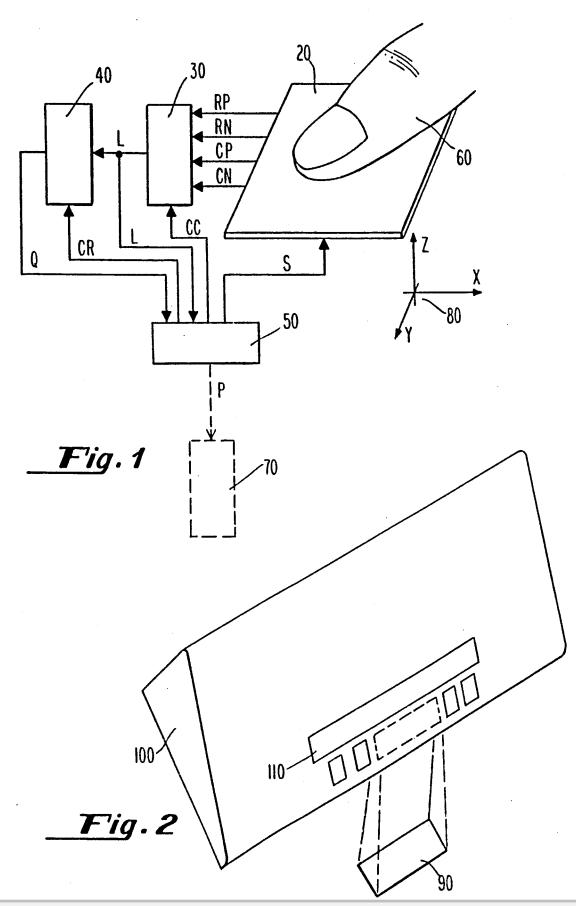
Methods and apparatus for data input. Devices are provided in accordance with this invention which utilize capacitive coupling of an object to the device to sense the object's position. The devices are comprised of a plurality of electrode strips which form virtual electrodes. The virtual electrodes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

### 17 Claims, 13 Drawing Sheets

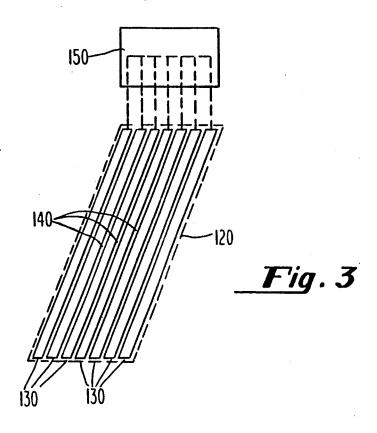




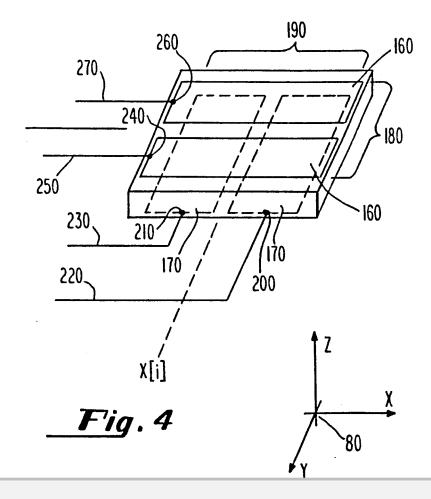
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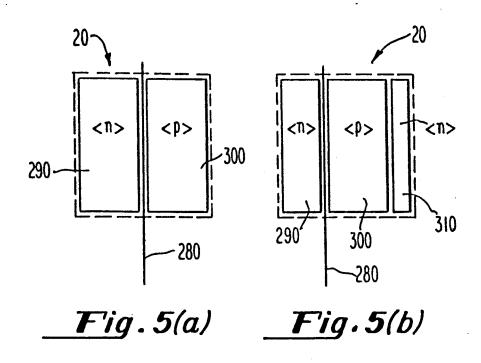




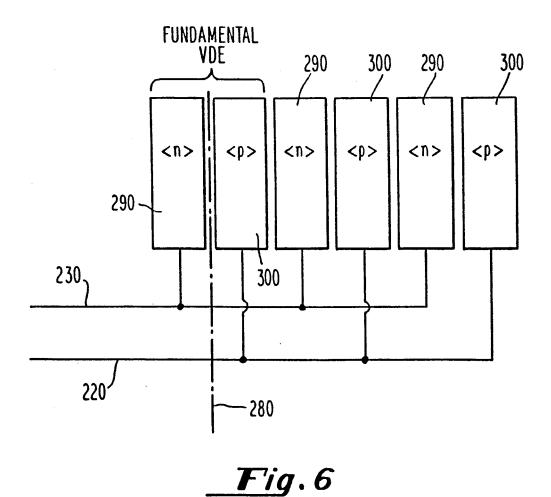
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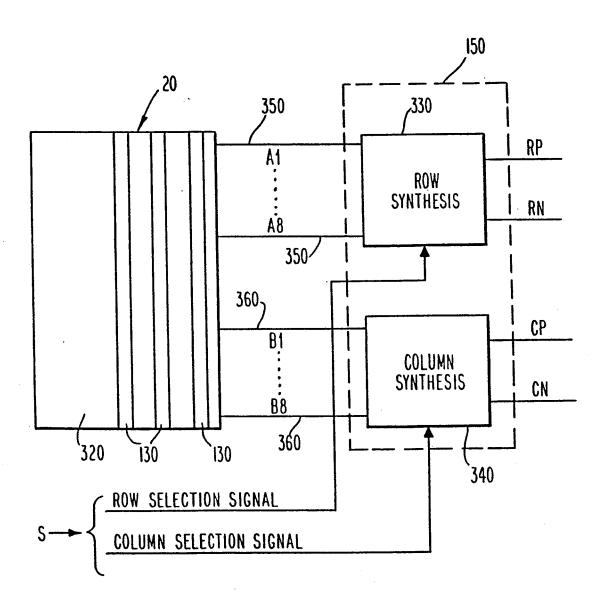




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<u>Fig</u>. 7

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