

- [54] EDGE-SENSITIVE DYNAMIC SWITCH
- [75] Inventor: Thomas D. Fletcher, Orem, Utah
- [73] Assignee: North American Philips Corporation, Signetics Division, Sunnyvale, Calif.
- [21] Appl. No.: 180,425
- [22] Filed: Apr. 8, 1988

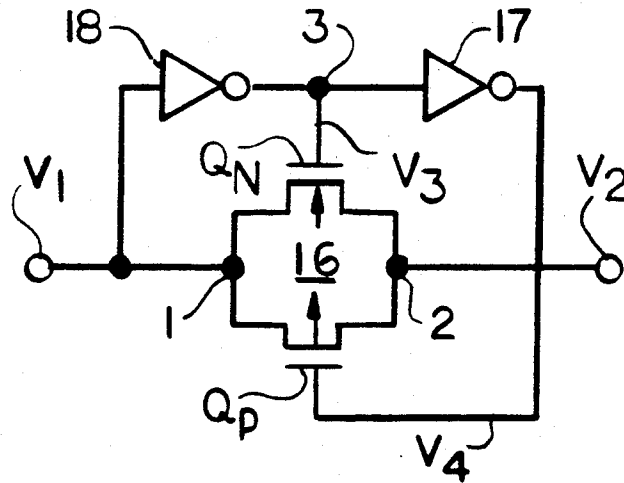
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Primary Examiner—John Zazworsky  
Attorney, Agent, or Firm—R. Meetin; D. Treacy; T. Briody

**Related U.S. Application Data**

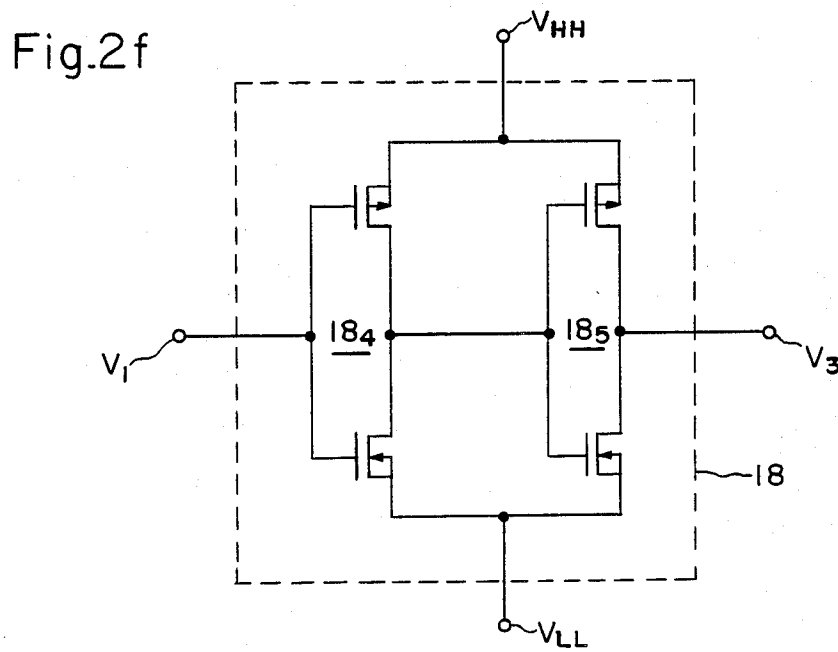
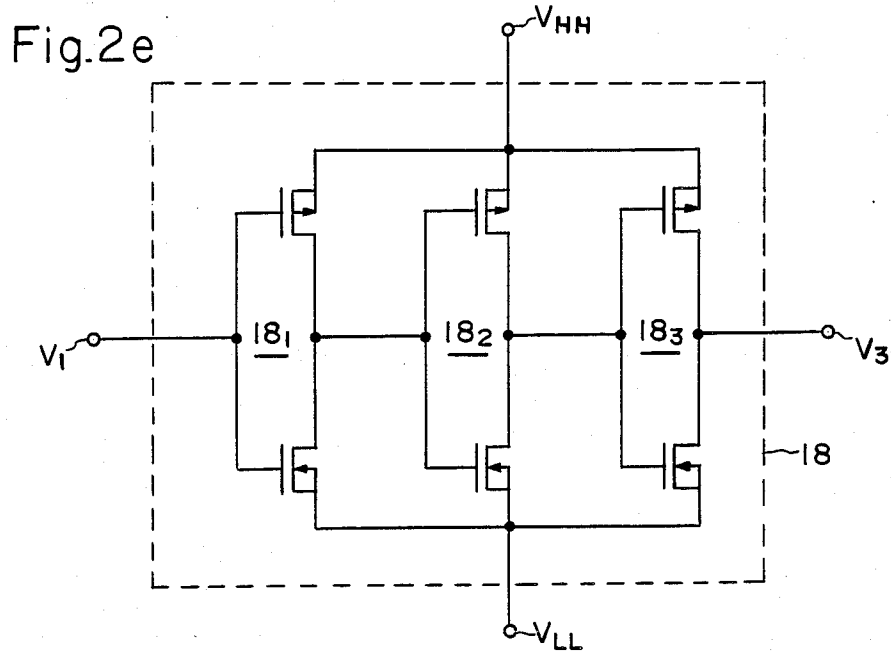
- [63] Continuation-in-part of Ser. No. 934,753, Nov. 25, 1986, Pat. No. 4,740,717.
- [51] Int. Cl.<sup>4</sup> ..... H03K 5/153
- [52] U.S. Cl. .... 307/605; 307/573; 307/576; 307/594; 307/517
- [58] Field of Search ..... 307/443, 573, 575, 576, 307/585, 597, 601, 605, 266, 261, 517, 518, 594, 273; 328/114

[57] **ABSTRACT**  
An edge-sensitive dynamic switch center around a transmission gate (16) formed with a pair of complementary FET's ( $Q_N$  and  $Q_P$ ) coupled together in parallel between a pair of nodes (1 and 2). The signals at the two nodes vary between a low voltage level and a high voltage level. An inverter (17) is coupled between the gate electrodes of the FET's. A delay element (18) is coupled between one of the nodes and one of the gate electrodes. Due to the transmission delays through the delay element and the inverter, the switch turns off with a controlled delay.

11 Claims, 5 Drawing Sheets







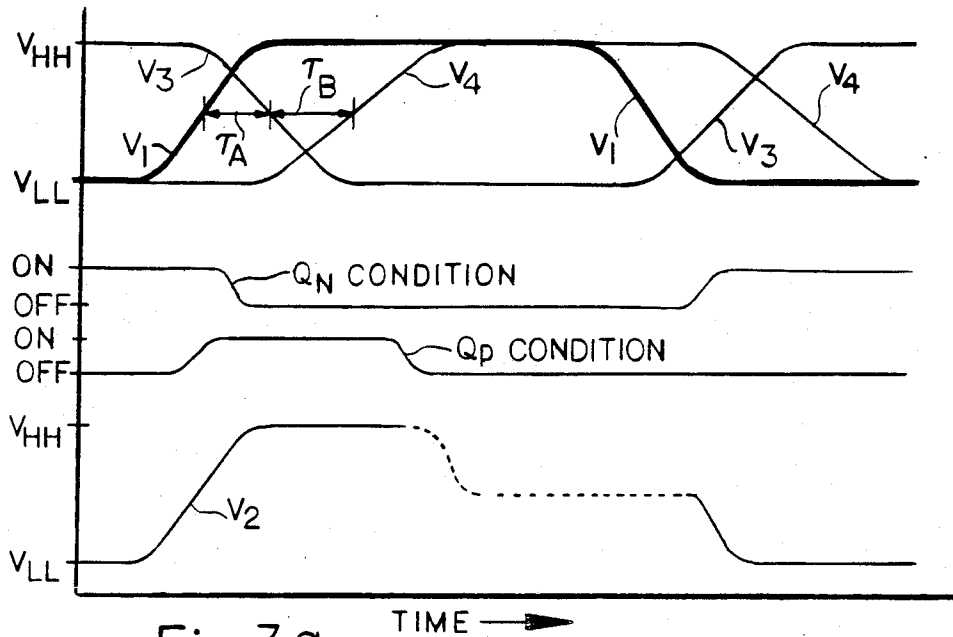


Fig. 3a

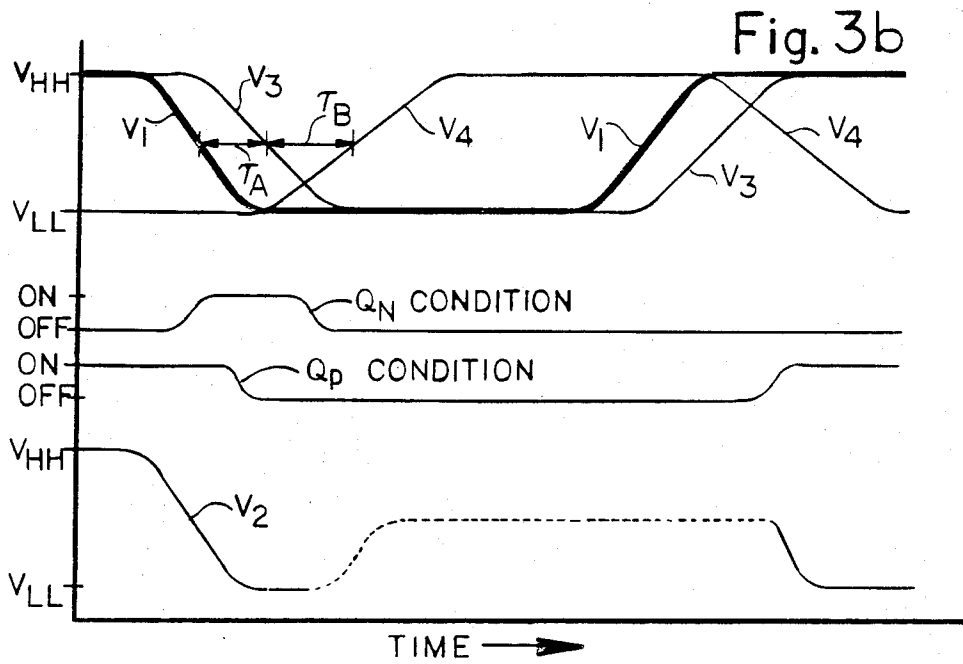
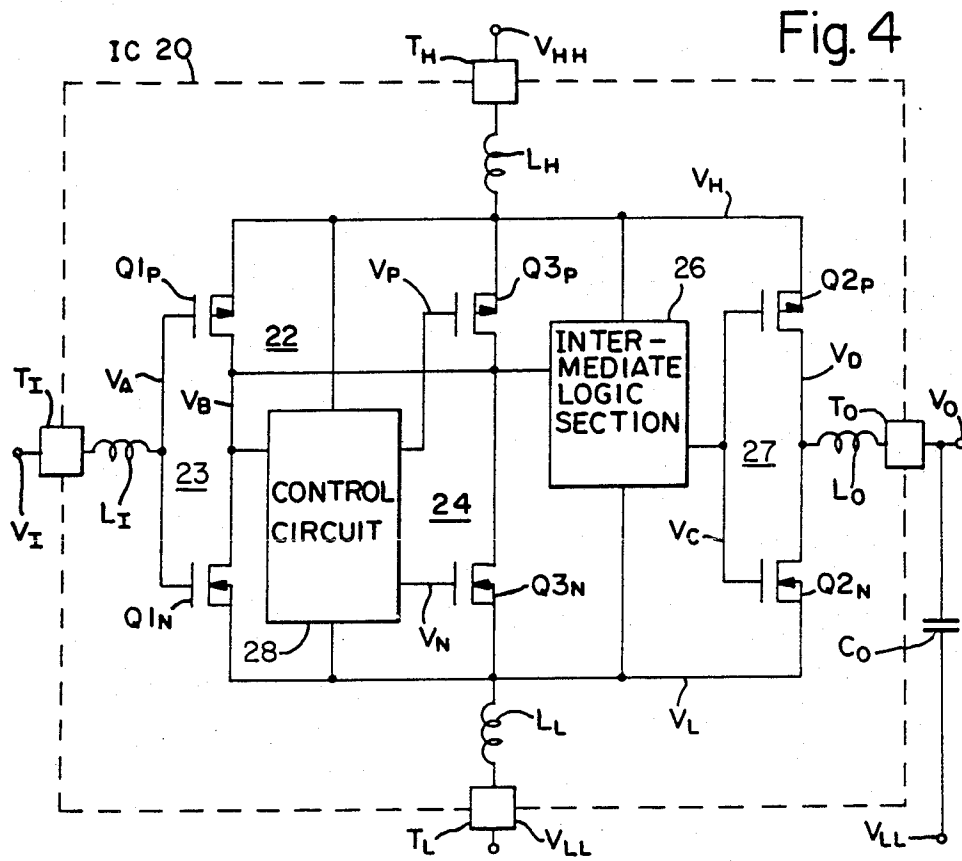


Fig. 3b



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