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(54) OPTICAL CROSSCONNECT SYSTEM COMPRISING RECONFIGURABLE LIGHT-REFLECTING DEVICES

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U.S.C. 154(b) by 0 days.

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(51) Int. Cl.⁷ G02B 6/26

385/20, 21, 22, 23, 37

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ABSTRACT

In accordance with the invention, an optical switching device comprises a light-reflecting mirror containing a magnetic component coupled to a substrate. One or more programmable magnets are provided for moving the mirror by interacting with the magnetic component. The programmable magnets move the mirrors between or among selected positions and then maintain the mirror position without continuous power. Exemplary cross connects and 2×2 switches are described.

9 Claims, 6 Drawing Sheets

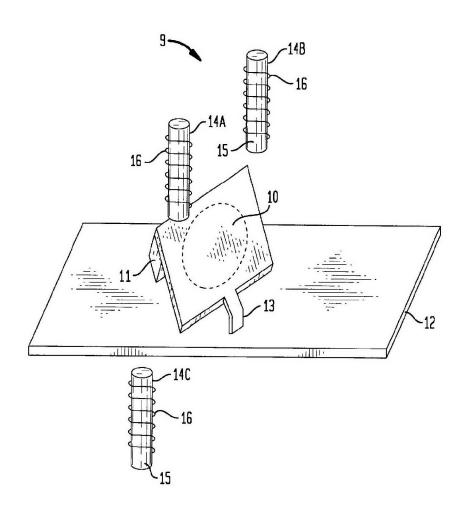
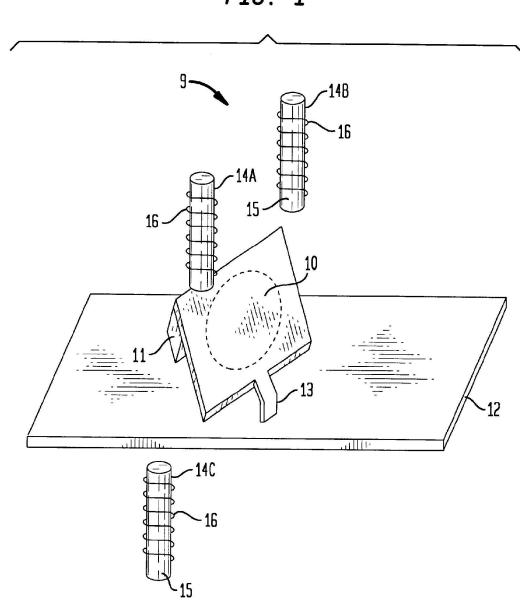
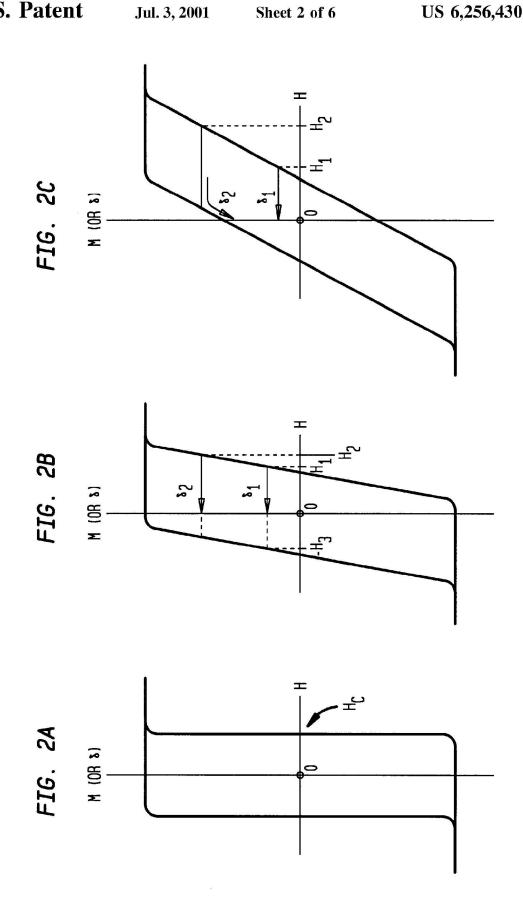




FIG. 1





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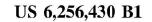
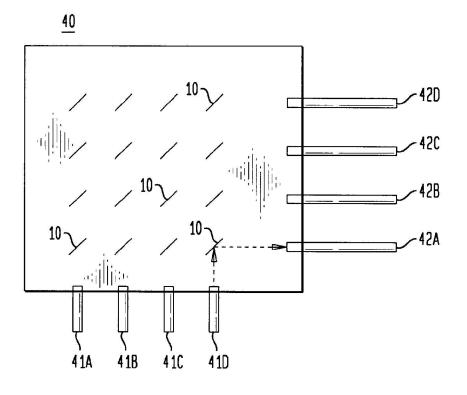
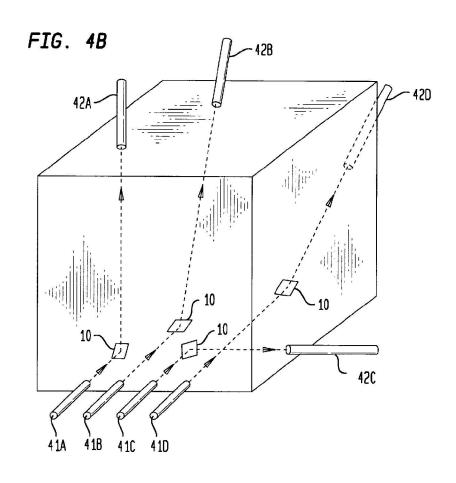


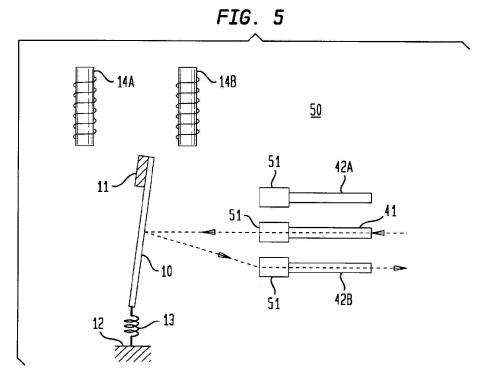
FIG. 3 31A ~ 14A **~14B** ~14C ~ 14D 10A - 10D <u>30</u> -14A' 31B

FIG. 4A









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