

[54] **ELECTRO-OPTICAL DISPLAY DEVICE
WITH ELECTRO-OPTICAL LIGHT VALVES**

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[30] **Foreign Application Priority Data**

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[52] U.S. Cl. **350/345; 350/338**

[58] Field of Search **350/160 LC, 150, 160 R,
350/338, 345, 357**

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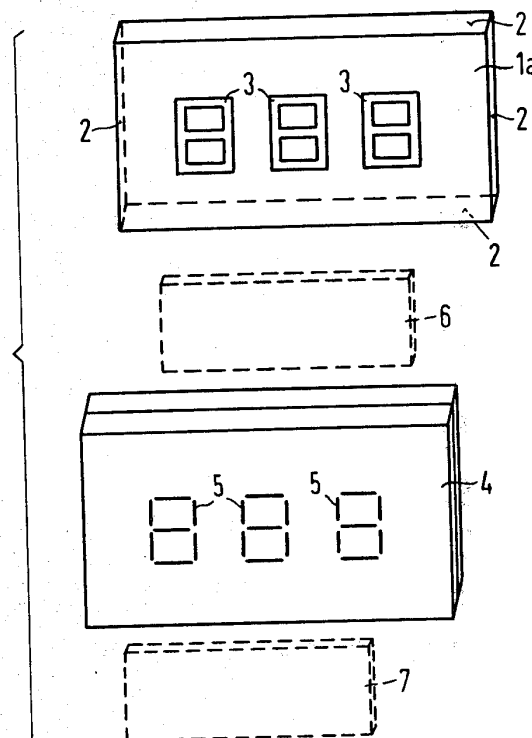
Primary Examiner—Edward S. Bauer

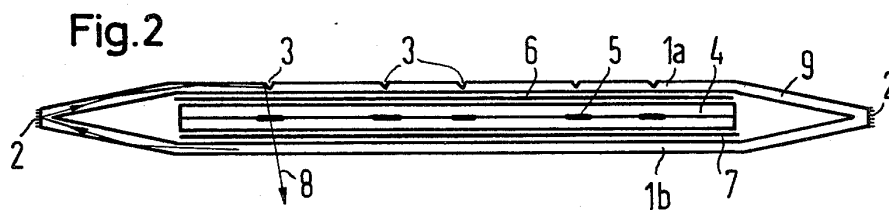
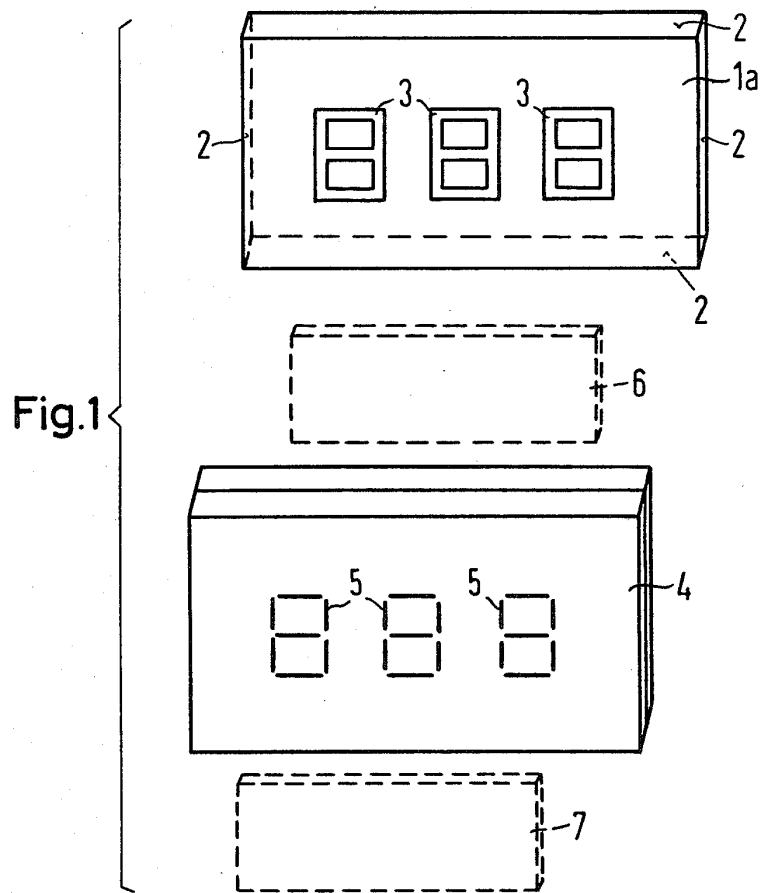
Attorney, Agent, or Firm—Hill, Gross, Simpson, Van
Santen, Steadman, Chiara & Simpson

[57] **ABSTRACT**

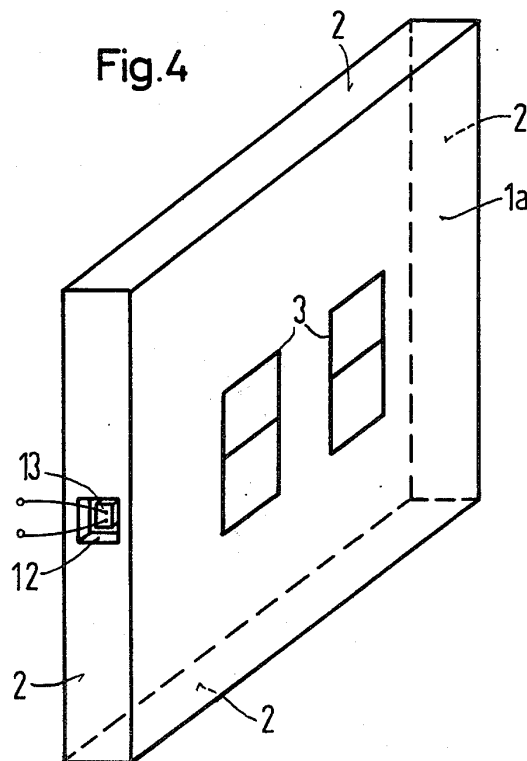
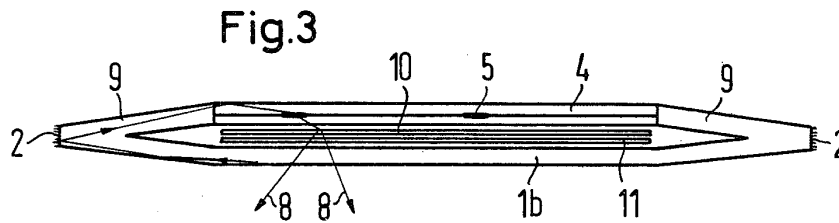
Electro-optical display device which may operate either in a one or multi-color mode and utilizes electro-optical light valves for controlling transmittance of a passive light through the device characterized by passively amplifying the brightness of the display device with the addition of a light trap which includes a fluorescent plate having mirrored edge surfaces. While the invention or improvement may be utilized with any passive optical display device, it is particularly useful with a liquid crystal display device.

36 Claims, 20 Drawing Figures





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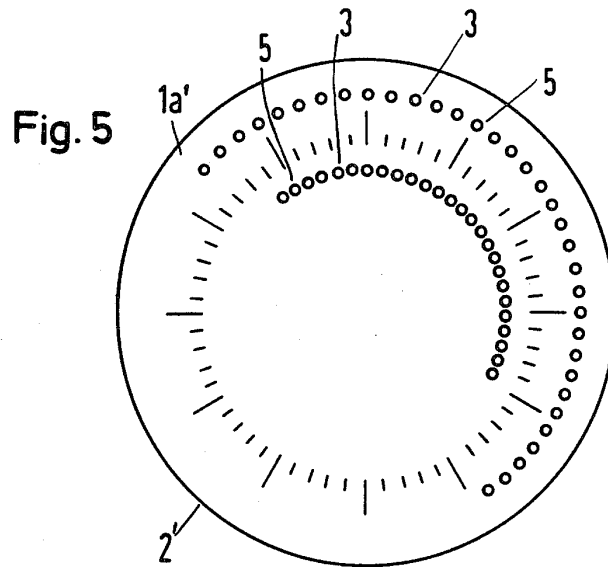
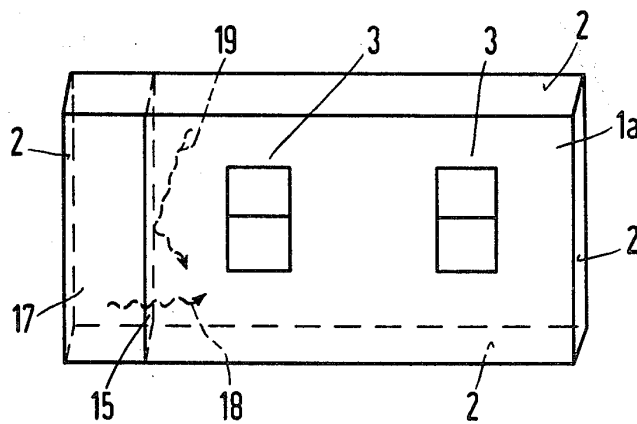
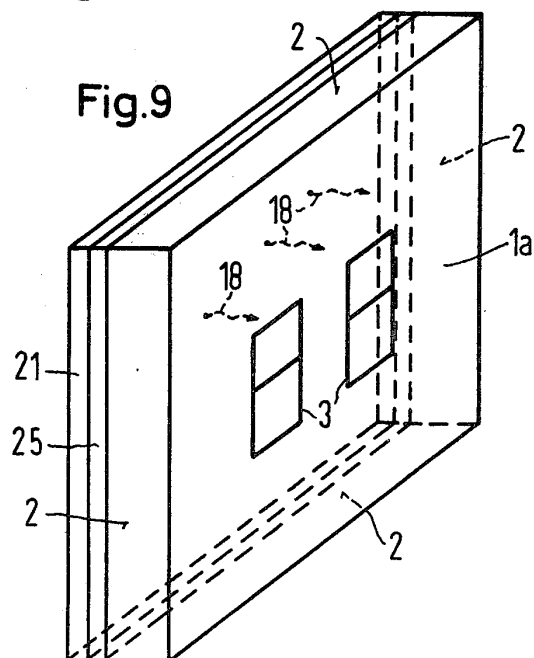
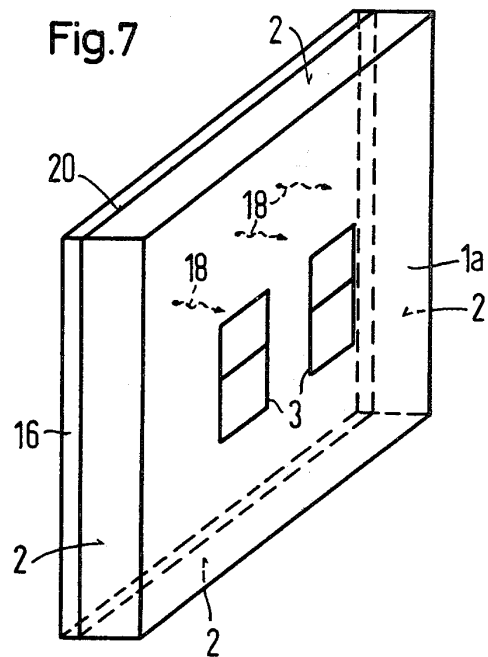


Fig. 6





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