

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

[75] Inventors: Guenter Baur, Freiburg; Waldemar Greubel, Denzlingen, both of Fed. Rep. of Germany

[73] Assignee: Siemens Aktiengesellschaft, Berlin & Munich, Fed. Rep. of Germany

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[22] Filed: Dec. 2, 1976

[30] Foreign Application Priority Data

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Sep. 10, 1976 [DE]	Fed. Rep. of Germany	.....	2640909

[51] Int. Cl.<sup>2</sup> ..... G02F 1/13

[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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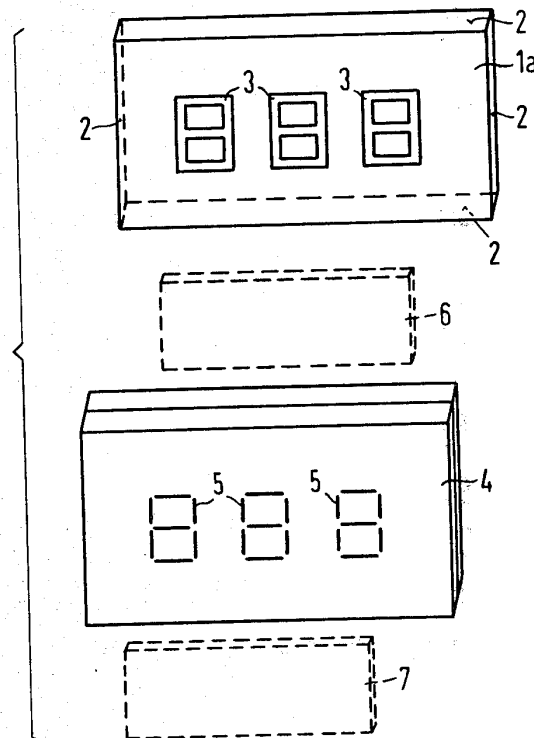
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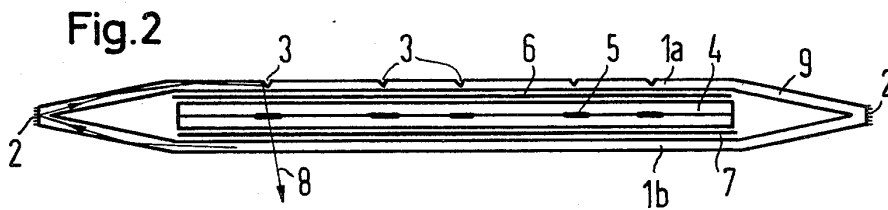
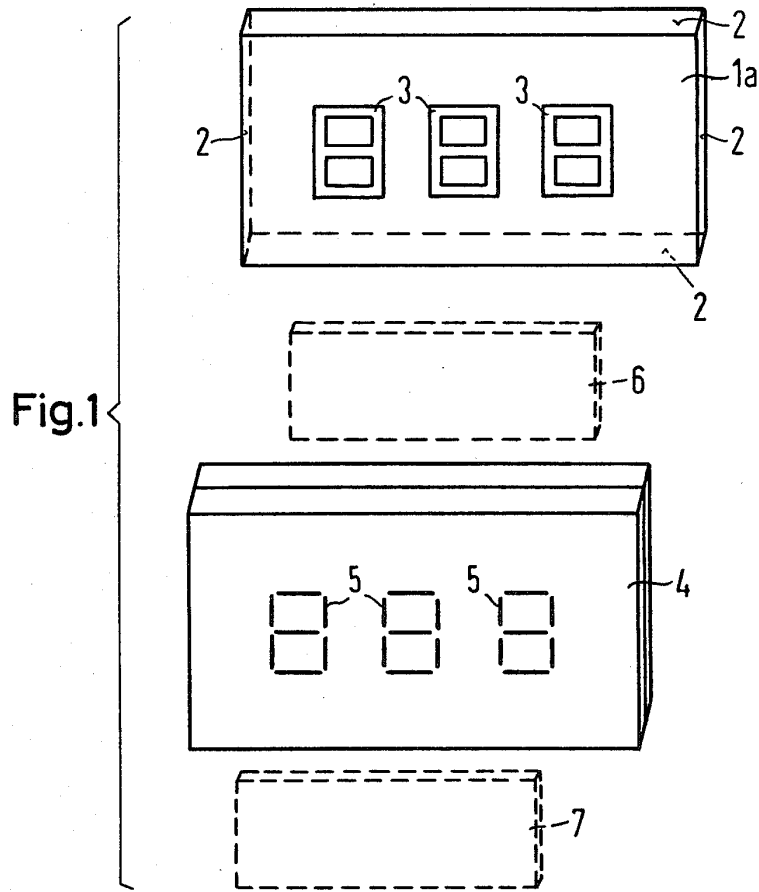
Primary Examiner—Edward S. Bauer  
Attorney, Agent, or Firm—Hill, Gross, Simpson, Van Santen, Steadman, Chiara & Simpson

[57] ABSTRACT

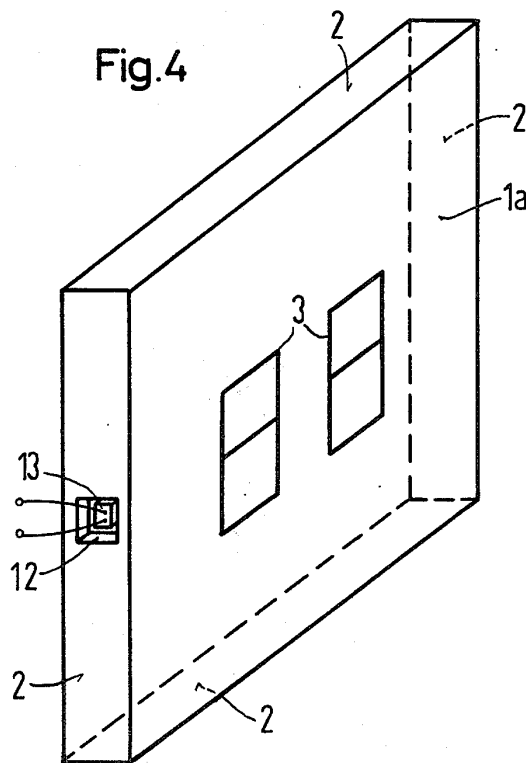
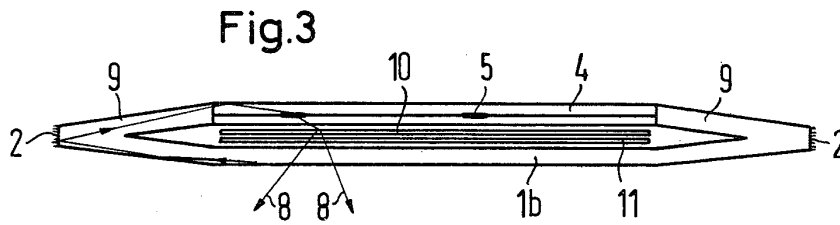
Electro-optical display device which may operate either in a one or multi-color mode and utilizes electro-optical light valves for controlling transmittance of a passive light through the device characterized by passively amplifying the brightness of the display device with the addition of a light trap 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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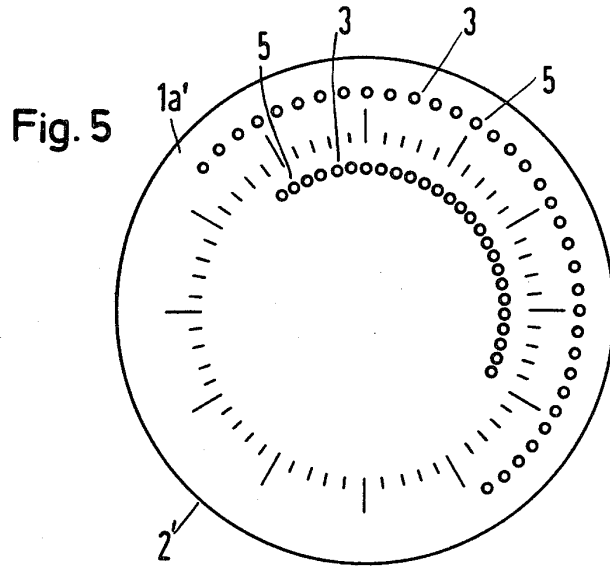
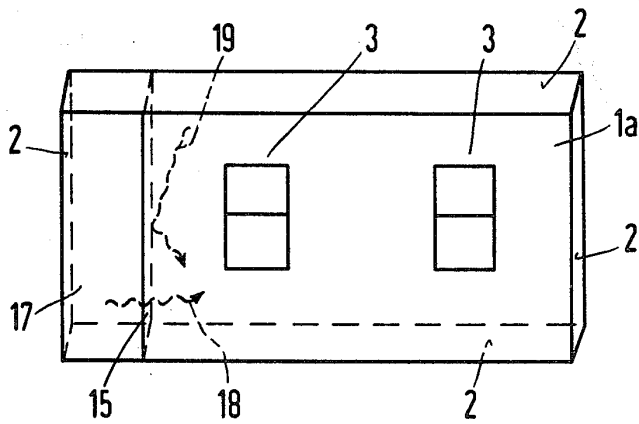
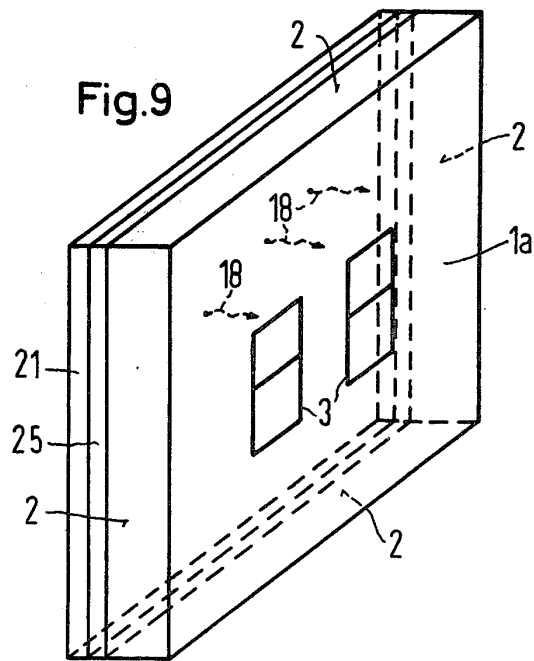
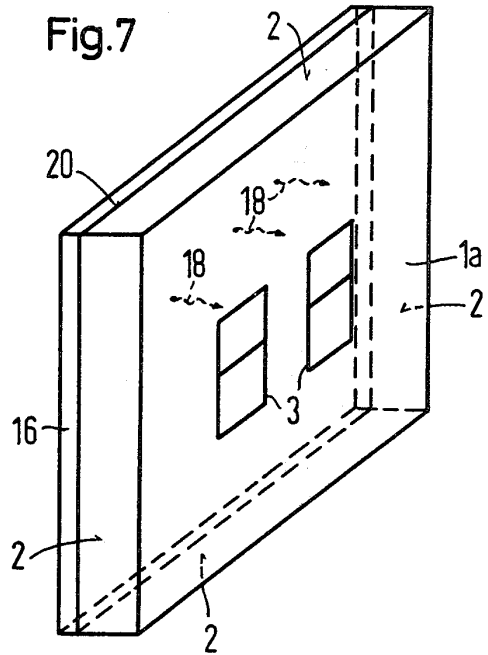


Fig. 6





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