

United States Patent [19]

Kozaki et al.

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[54] LIQUID CRYSTAL DISPLAY DEVICE

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[30] Foreign Application Priority Data

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Mar. 23, 1990 [JP] Japan 2-74549

[51] Int. Cl.⁵ C09K 3/34

[52] U.S. Cl. 428/1; 350/340; 350/341

[58] Field of Search 428/1; 350/341, 350 R, 350/340

[56] References Cited

U.S. PATENT DOCUMENTS

4,911,958 3/1990 Mochizuki 428/1

Primary Examiner—Alexander S. Thomas
Attorney, Agent, or Firm—Birch, Stewart, Kolasch & Birch

[57] ABSTRACT

Disclosed is an improvement of an active matrix type liquid crystal display device using a combination of a specific mixed liquid crystal and a specific polyimide orientation film.

6 Claims, 6 Drawing Sheets

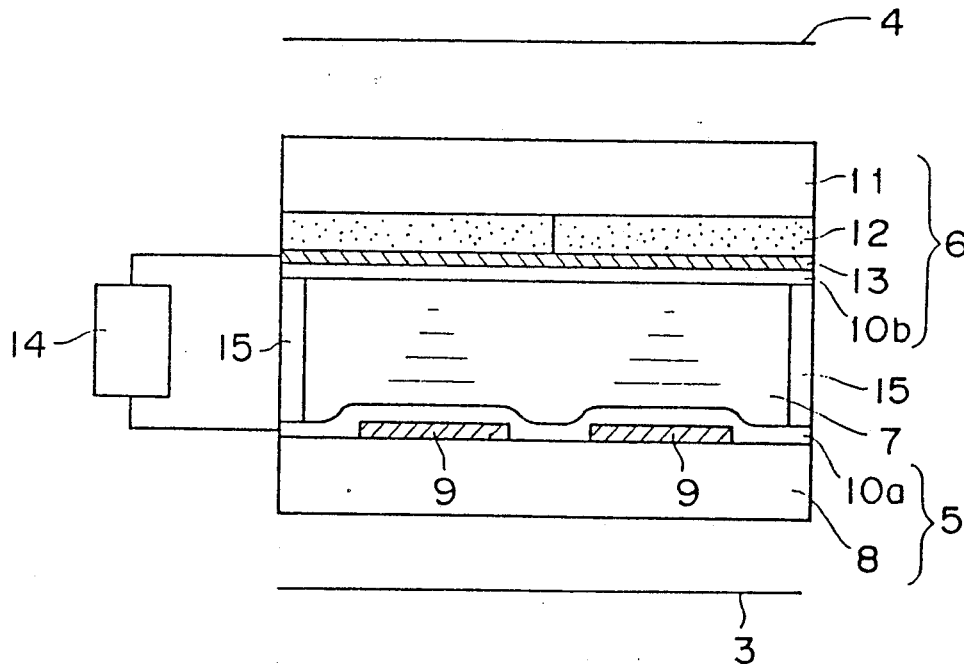


Fig. 1

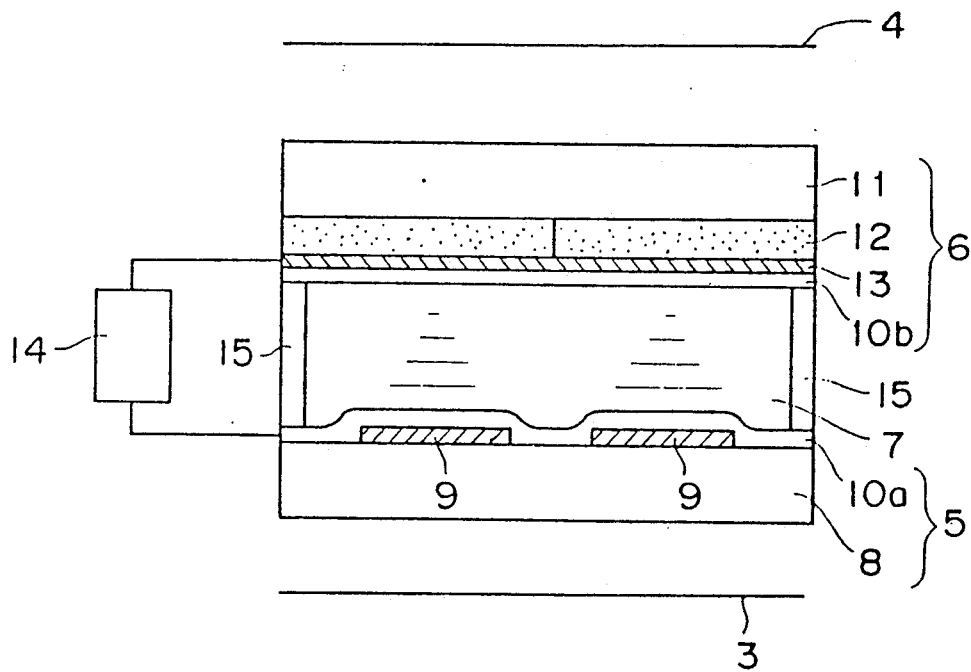


Fig. 2

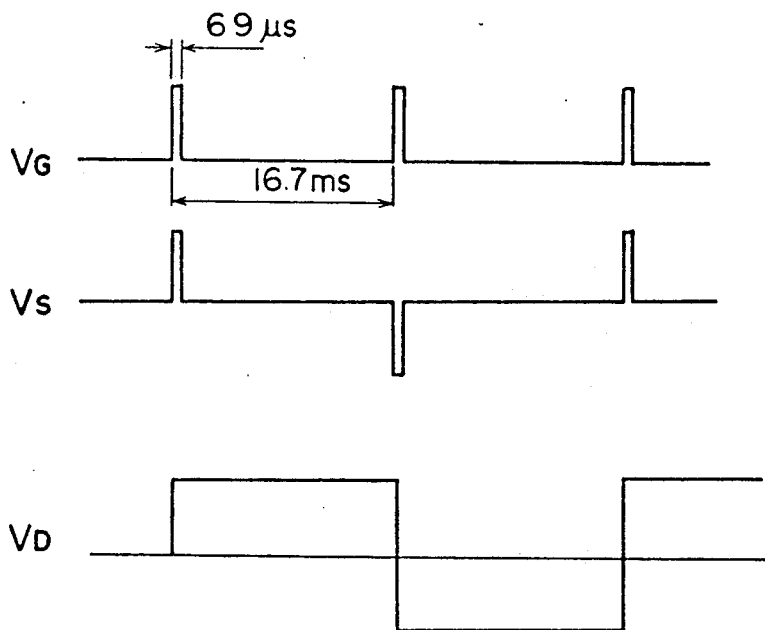
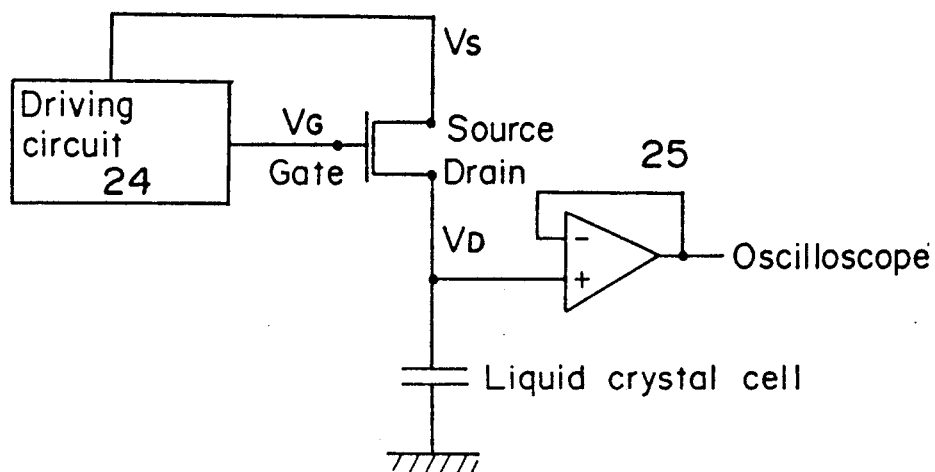


Fig. 3

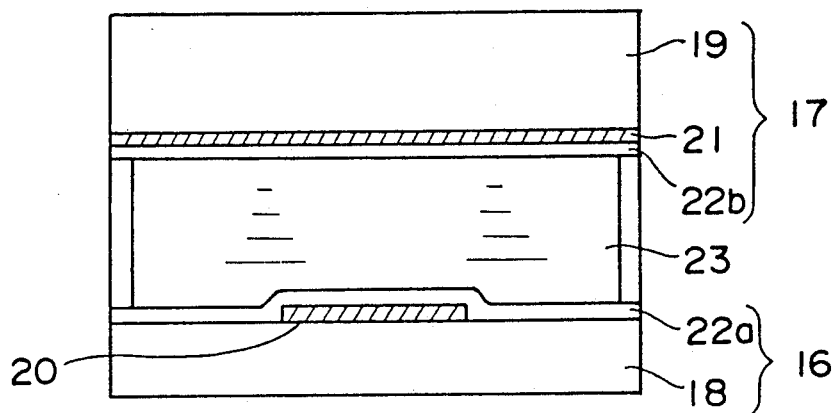


Fig. 4

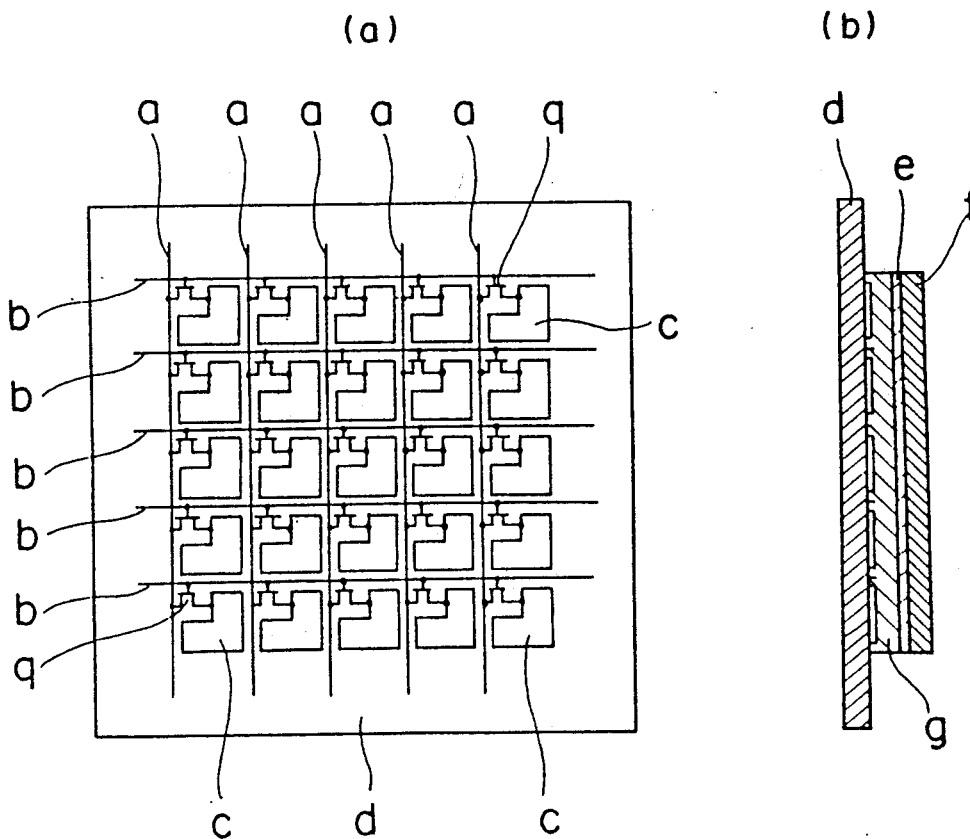


Fig. 5

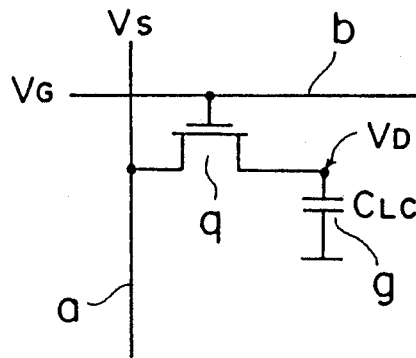
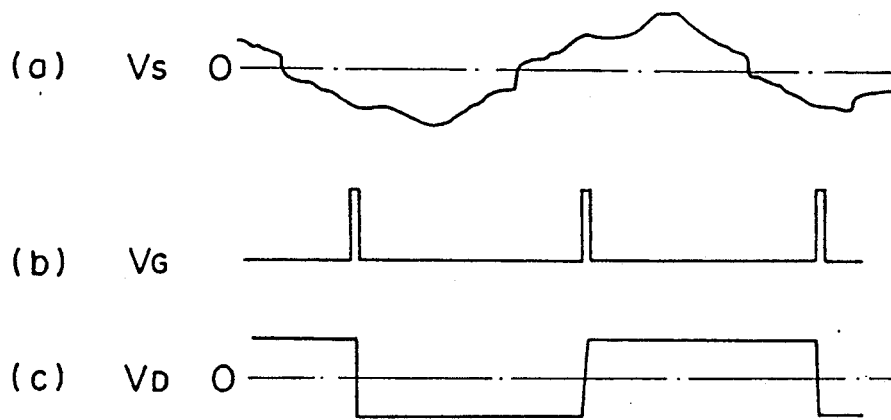


Fig. 6



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