



United States Patent [19]

[11] Patent Number: **5,654,779**

Nakayama et al.

[45] Date of Patent: **Aug. 5, 1997**

[54] **LIQUID CRYSTAL DISPLAY DEVICE HAVING A REMOVABLE HOLDING MEMBER FOR THE LIGHT SOURCE**

[75] Inventors: **Tatsuya Nakayama; Takanori Takaki; Seiki Takahashi; Toshio Tobita**, all of Kumamoto, Japan

[73] Assignees: **Mitsubishi Denki Kabushiki Kaisha; Asahi Glass Company Ltd.**, both of Tokyo, Japan

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[21] Appl. No.: **365,791**

[22] Filed: **Dec. 29, 1994**

[30] Foreign Application Priority Data

May 18, 1994 [JP] Japan 6-103797

[51] Int. Cl.⁶ **G02F 1/1333; G02F 1/1335; G01D 11/28; F21V 7/04**

[52] U.S. Cl. **349/58; 349/64; 349/65; 345/905; 362/26; 362/27; 362/31; 385/901**

[58] Field of Search 362/26, 27, 31, 362/32; 359/40, 41, 42, 48, 50, 49, 69, 70, 83; 385/146, 901; 345/905; 349/58, 61, 62, 64, 65, 70, 113

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Primary Examiner—William L. Sikes
Assistant Examiner—Walter J. Malinowski
Attorney, Agent, or Firm—Leydig, Voit & Mayer

[57] ABSTRACT

A liquid crystal display device adaptable for various applications is provided which comprises a liquid crystal display panel, lamps, lamp holders respectively holding the lamps, a photoconductive board provided between the lamps, and a frame covering both the lamps and the lamp holders, wherein the photoconductive board comprises an outer photoconductive part fixed to the lamp holders, and an inner photoconductive part held on the rear side thereof by a holding member provided to the frame.

11 Claims, 9 Drawing Sheets

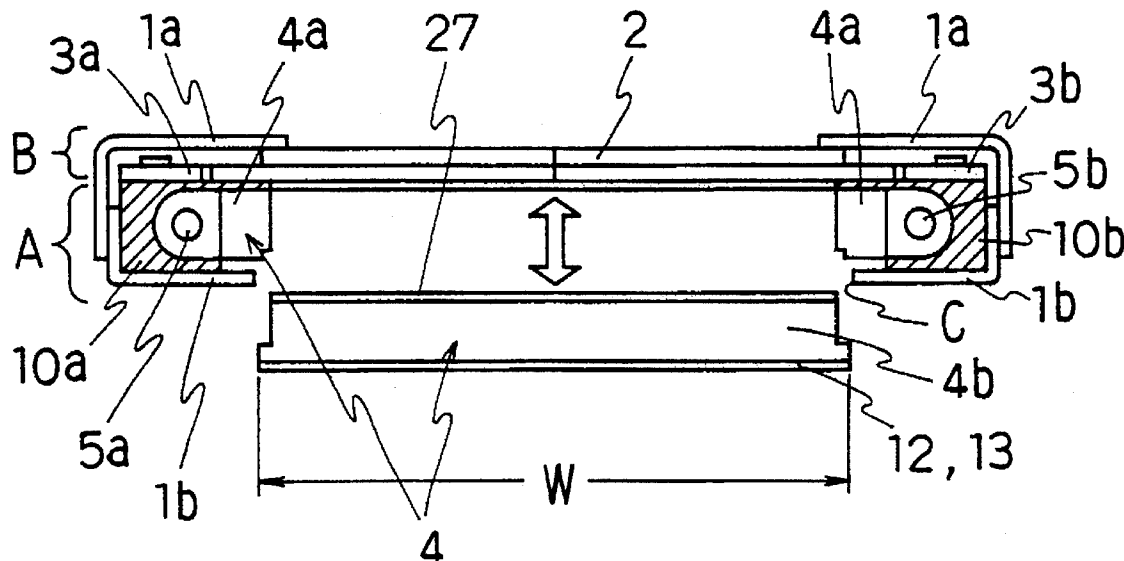


FIG. 3a

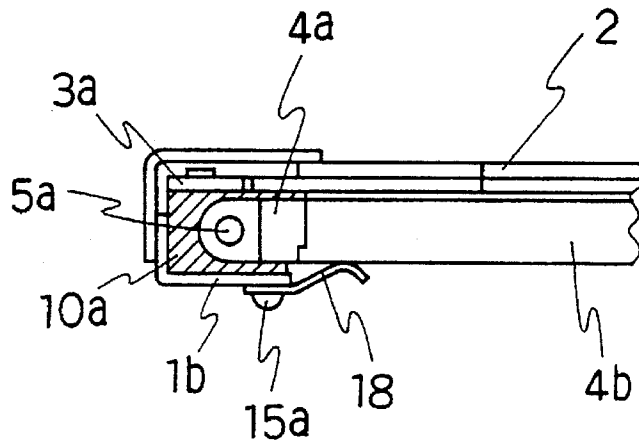


FIG. 3b

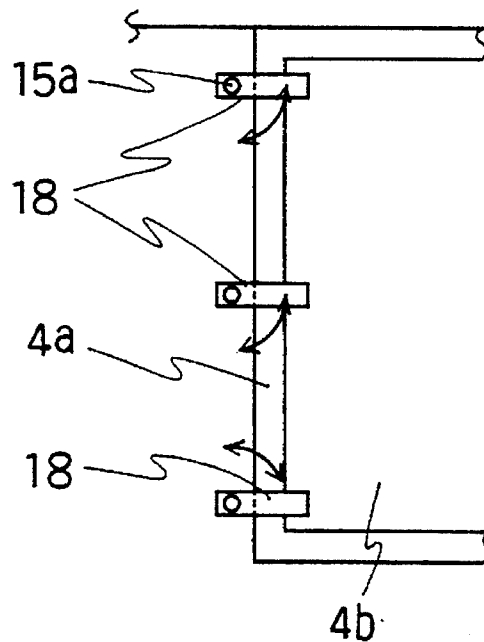


FIG. 4a

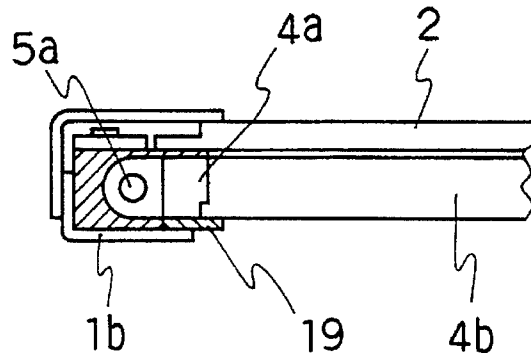
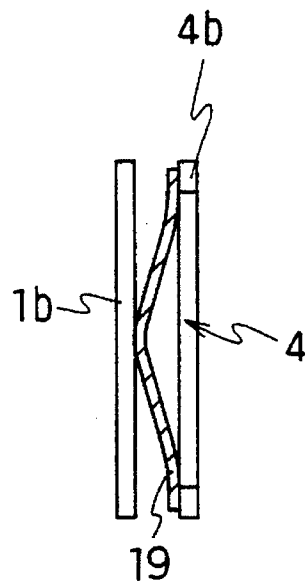


FIG. 4b



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