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United States Patent [19]

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Sasuga et al.

[45] Date of Patent: **Jul. 11, 1995**

[54] **LIQUID CRYSTAL DISPLAY DEVICE WITH SHIELD CASING CONNECTED TO FRAME HOLDING THE DISPLAY ABOVE LOWER CASING HOLDING LIGHT SOURCE**

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[21] Appl. No.: **29,622**

[22] Filed: **Mar. 11, 1993**

[57] ABSTRACT

[30] **Foreign Application Priority Data**

Mar. 12, 1992 [JP] Japan 4-053452

A liquid crystal display device which includes a shield casing made of a metal plate and having fixing pawls and fixing hooks, an middle frame for holding a liquid crystal display, and a lower casing for packaging back lights. The fixing pawls of said shield casing are bent in corresponding recesses formed in the middle frame. Also, the fixing hooks of said shield casing are fitted on corresponding projections formed on the lower casing.

[51] Int. Cl.⁶ **G02F 1/1333; G02F 1/1335**

[52] U.S. Cl. **359/83; 359/50**

[58] Field of Search **359/50, 48, 83**

[56] **References Cited**

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7 Claims, 37 Drawing Sheets

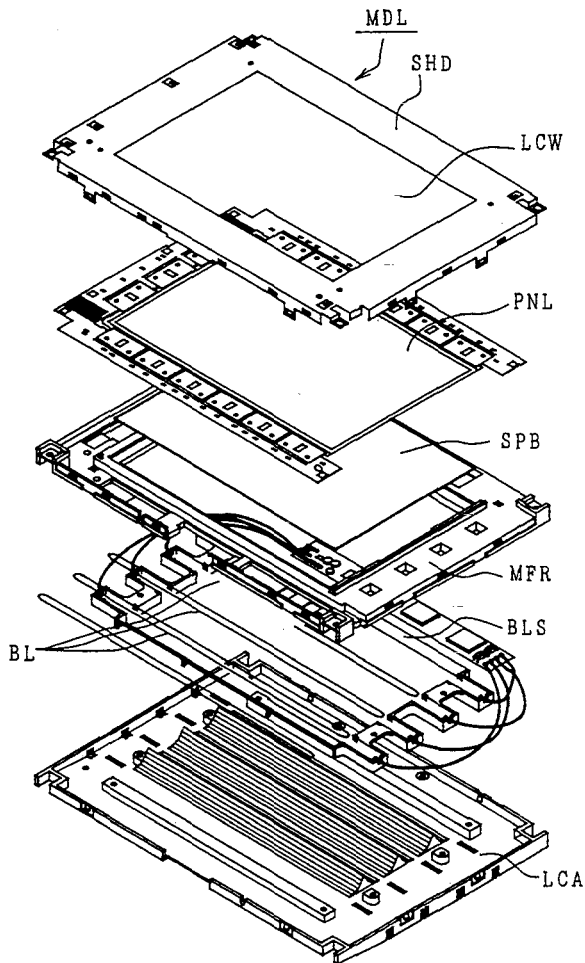


FIG. 1

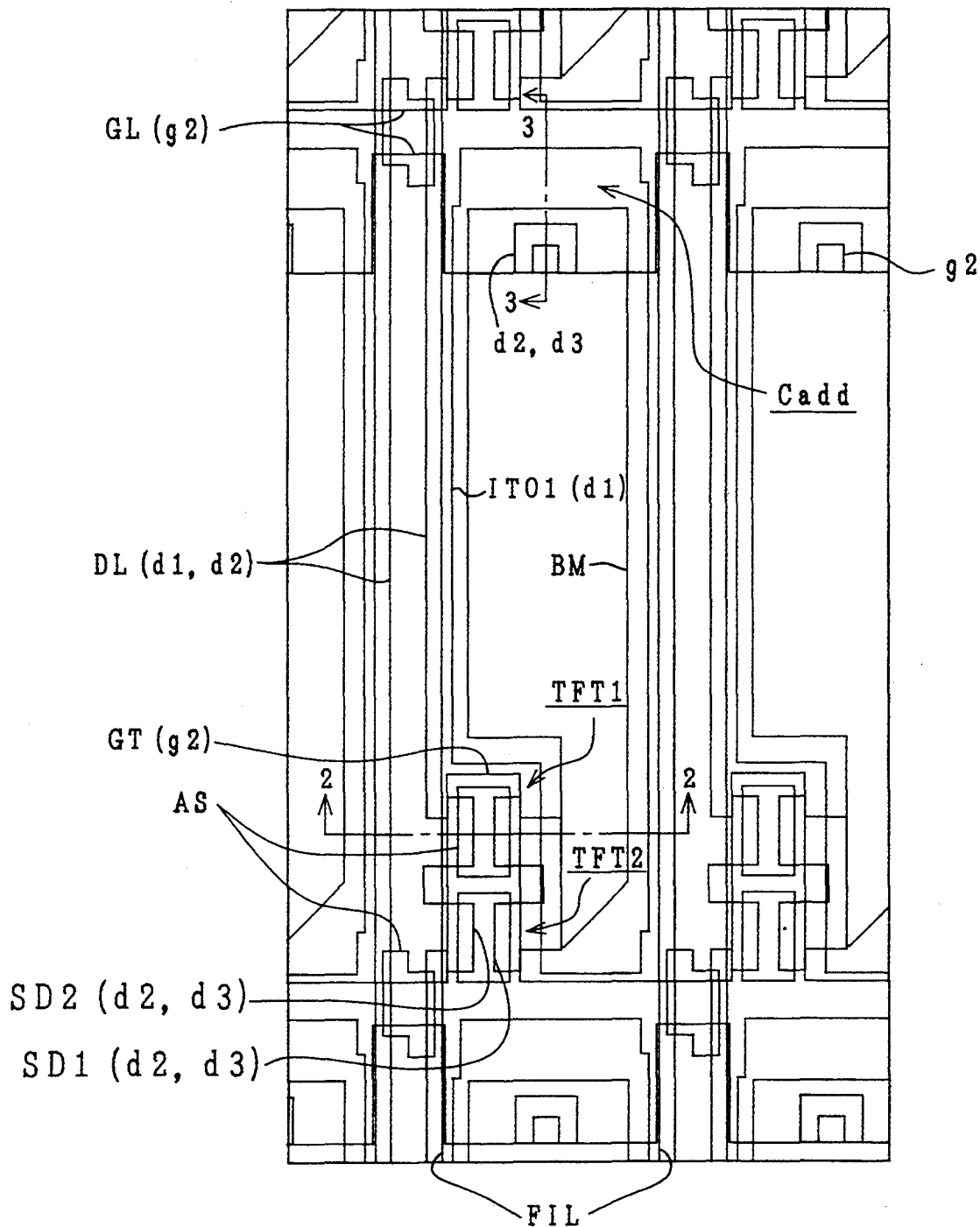


FIG. 2

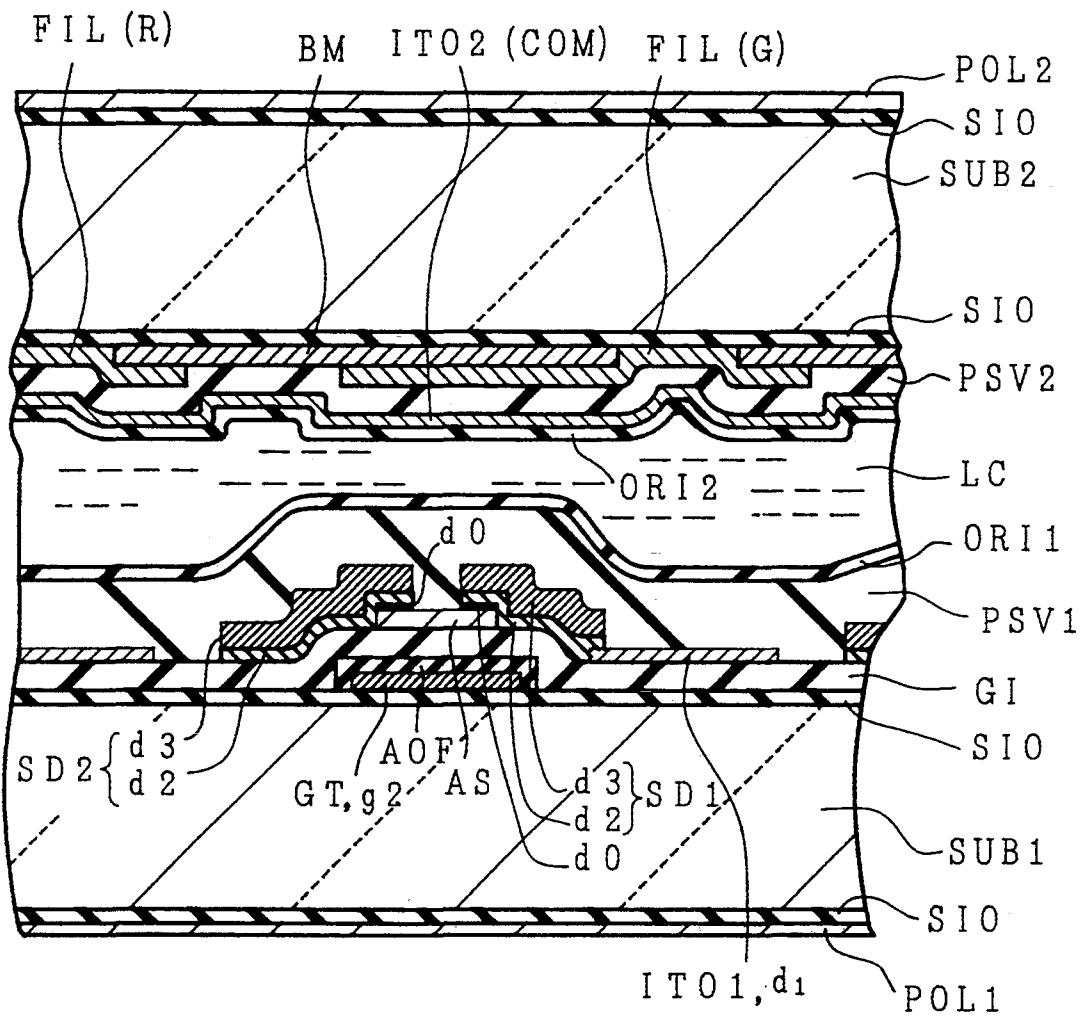


FIG. 3

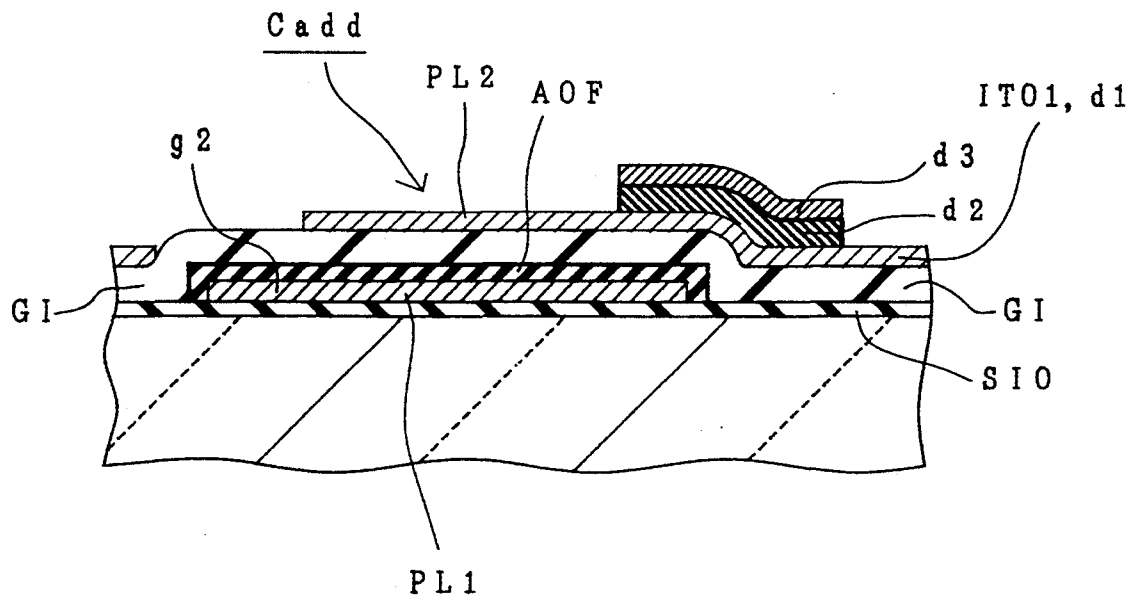
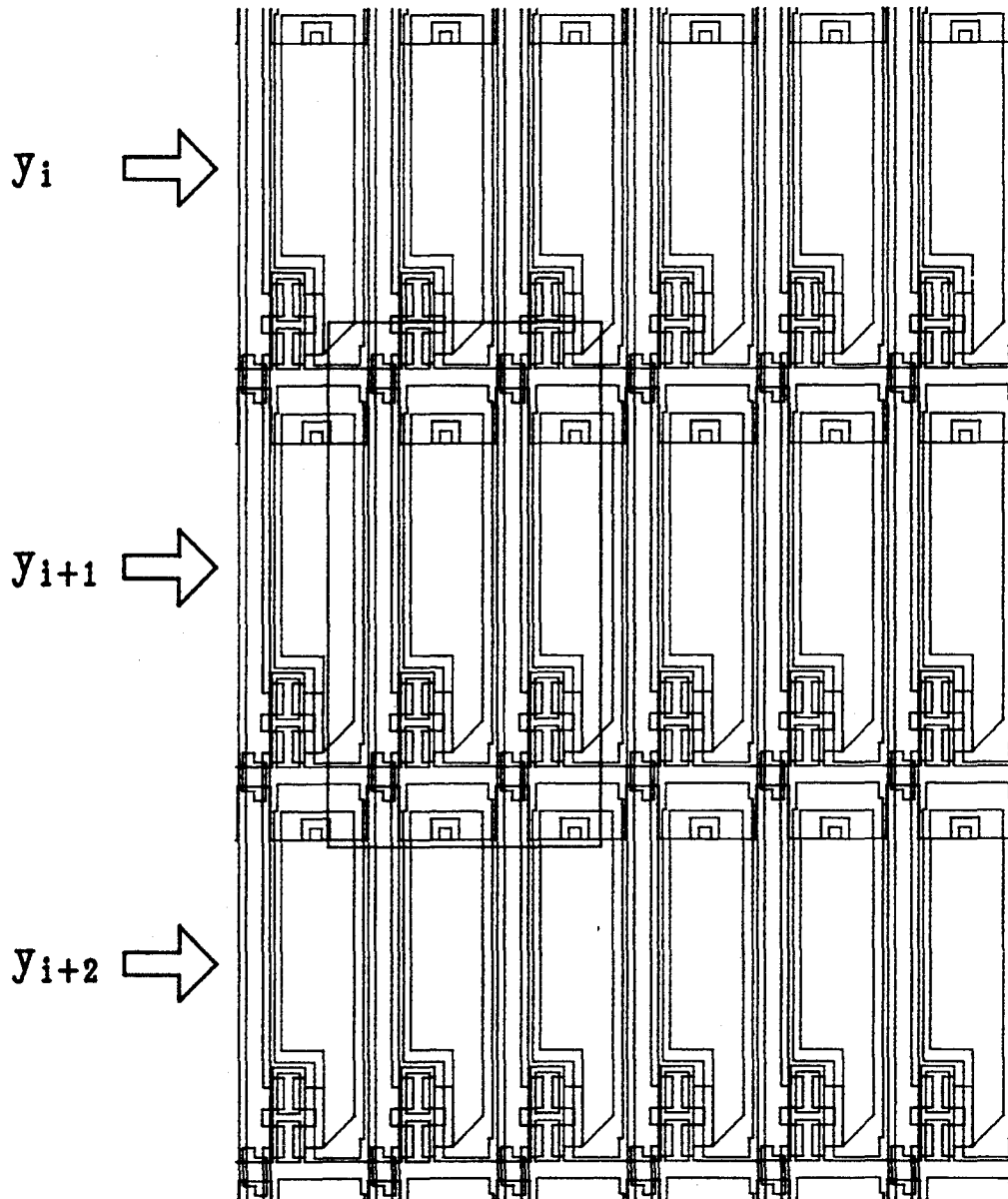


FIG. 4



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