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(54) **TOUCH PANEL AND LIQUID CRYSTAL  
DISPLAY APPARATUS USING THE SAME**

**Publication Classification**

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(57) **ABSTRACT**

The touch panel has a structure such that a projection portion is provided on a second transparent substrate and a flexible printed-circuit board is bonded by thermocompression to the projection portion. By allowing width of a picture frame to be smaller in other portions than the projection portion, downsizing and a lighter weight of a touch panel-carrying apparatus can be attained. By bonding a sheet member such as a polarizing plate to a top face of the second transparent substrate excluding an area of the projection portion, stress to be applied from the sheet member to the thermocompression-bonding portion of the FPC is reduced and, therefore, electric connection stability of the FPC can be enhanced.

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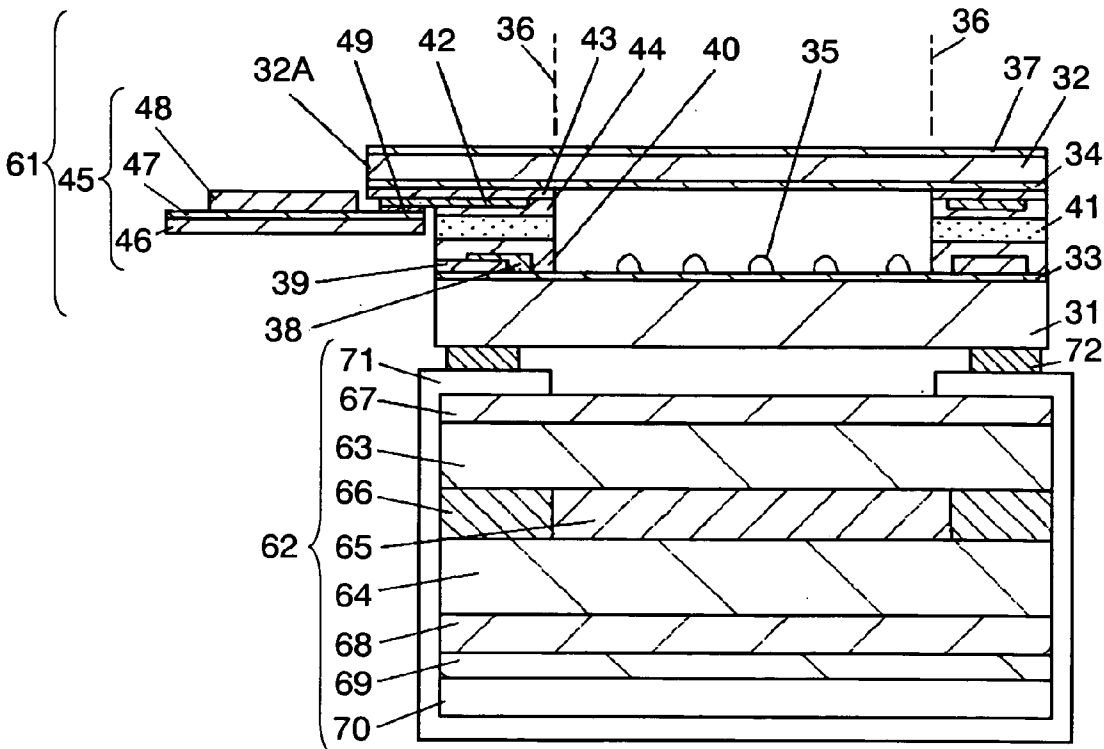


FIG. 1

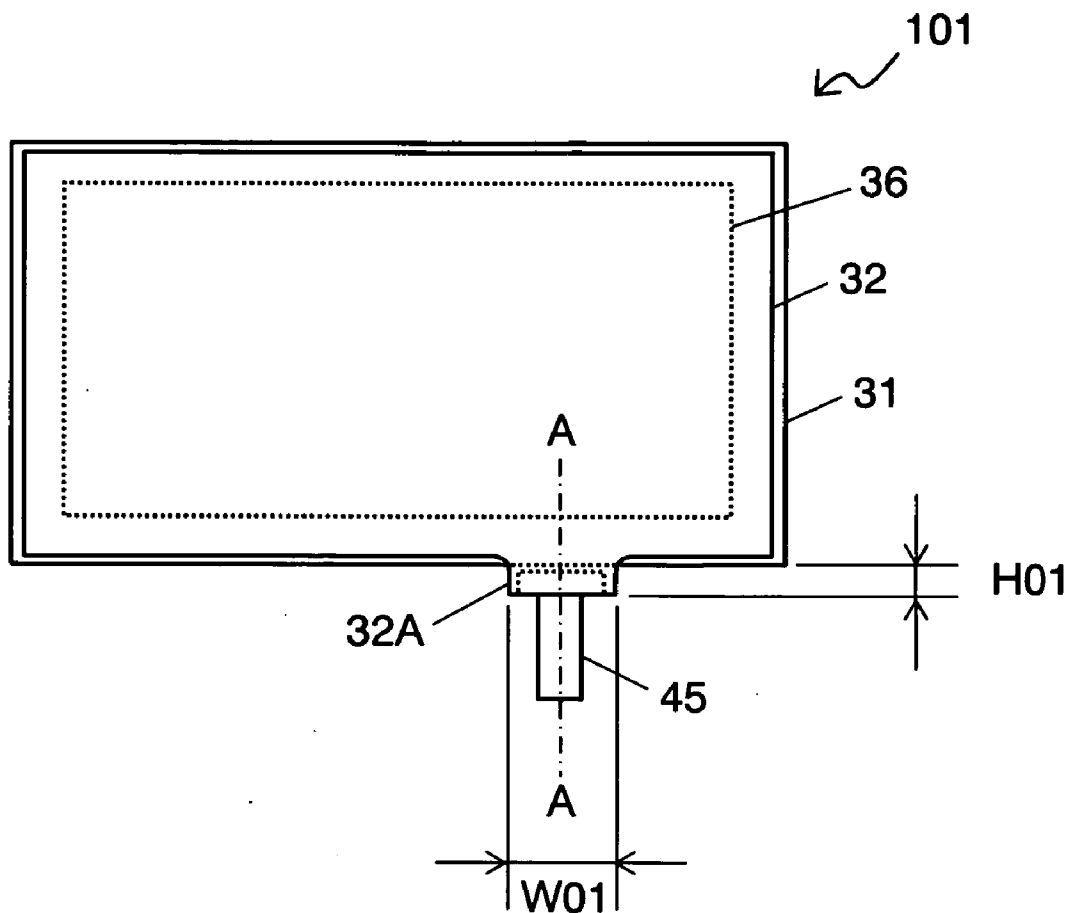


FIG. 2

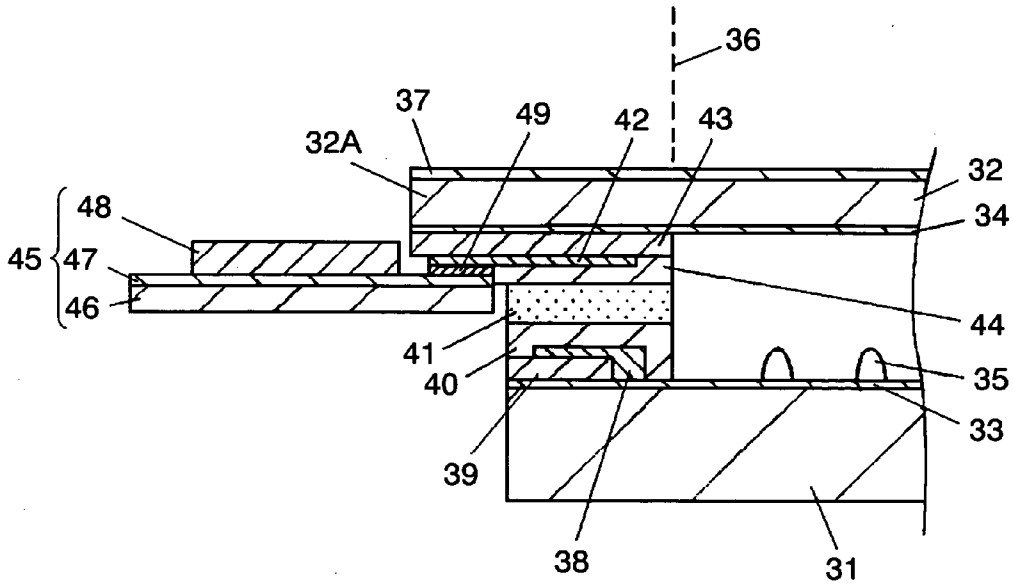


FIG. 3

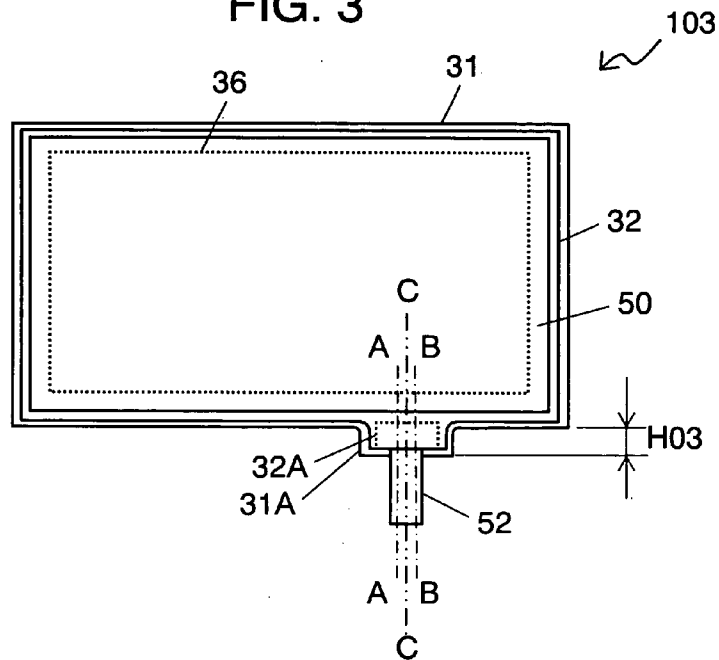


FIG. 4

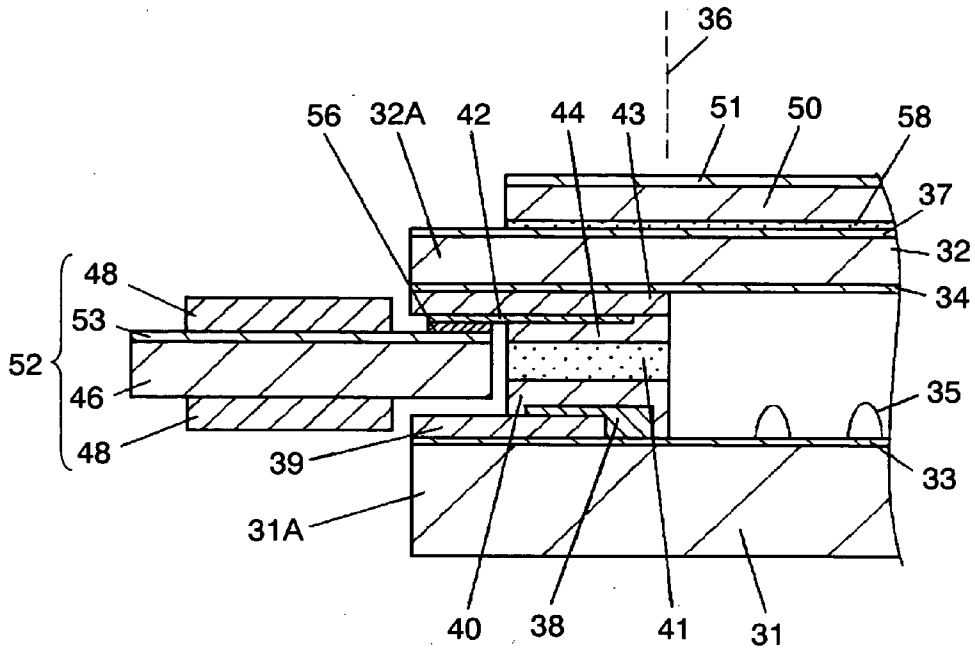


FIG. 5

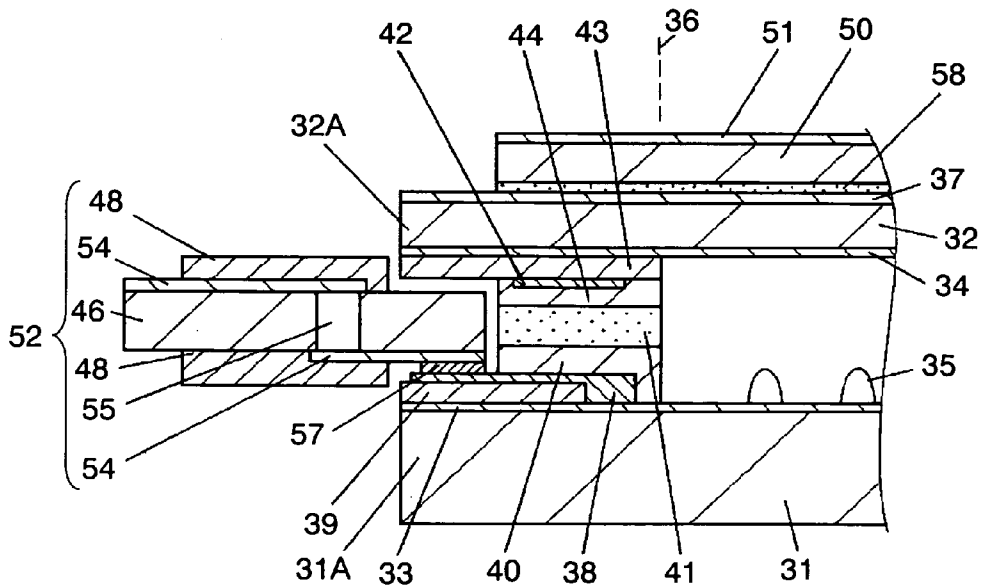


FIG. 6

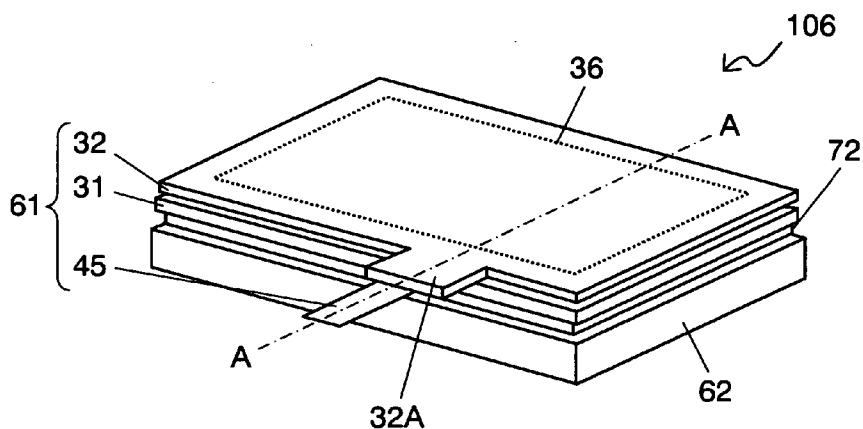
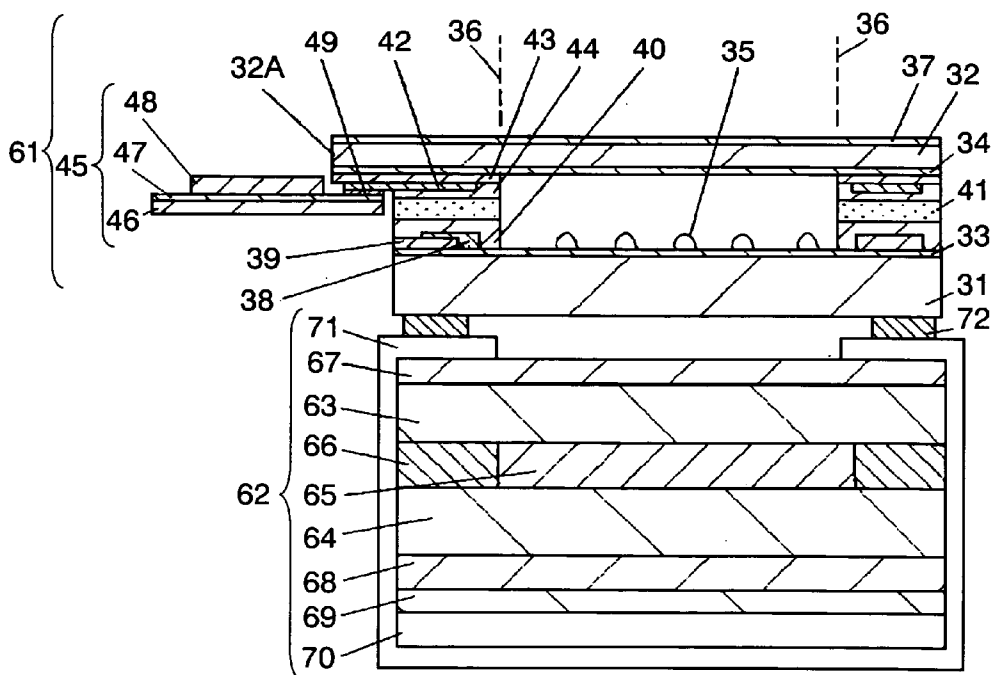


FIG. 7



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