ABSTRACT OF THE DISCLOSURE (Fig. 1)

LIQUID CRYSTAL DISPLAY APPARATUS, STRUCTURE FOR MOUNTING SEMICONDUCTOR DEVICE, METHOD OF MOUNTING SEMICONDUCTOR DEVICE, ELECTRONIC OPTICAL APPARATUS AND ELECTRONIC PRINTING APPARATUS

A liquid crystal display apparatus is provided which needs a small, thin and compact area thereof for mounting semiconductor chips for driving liquid crystal and, accordingly, a reduced cost. Semiconductor chips (4) for driving liquid crystal are mounted on the surfaces (the first layers (1)) of multi-layer substrates in a face-down manner, each of the surfaces having input lines (5) to the chips (4) and output lines (8) from the chips. The input lines have lands (7) for connecting the multi-layer substra-tes to each other. At least one intermediate layer (2) is formed between the upper surface (1) and the reverse surface (3), the intermediate layer having bus lines (10). The bus lines and the input lines of the first layer are connected to one another via through holes (6). The output lines of the first layer and the terminals (13) of the third layer are connected to one another via through holes of the first, second and the third layers (9, 11, 12).