

Title (en)

MULTILAYER PLATE FOR THE FABRICATION OF A DISPLAY PANEL

Title (de)

MEHRSCICHTIGE PLATTE ZUR HERSTELLUNG EINER ANZEIGETADEL

Title (fr)

PLAQUE MULTICOUCHE DESTINEE A LA FABRICATION D'UN PANNEAU D'AFFICHAGE

Publication

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Application

**EP 02800453 A 20021001**

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- US 0231512 W 20021001

Abstract (en)

[origin: WO03029883A1] The herein invention pertains to devices for presenting information in particular elements of liquid crystal displays, and is aimed at creating a multilayer plate, which may be used in the manufacture of liquid crystal displays, as well as at devising a design of displays with internal polarizers. The technical result of the disclosed invention is the increase of reliability and decrease of thickness of the display, as well as lowering of the manufacturing costs, an increase of useful yield and lowering the number of manufacturing operations in the process of display assembly. Technical result is achieved by the fact that the multilayer plate comprises optically transparent substrate (6), protective layer (3), conducting layer, and also at least one layer of anisotropic membranous crystal (2). Moreover, membranous crystal (2) is formed out of material, which contains aromatic rings and has Bragg peak at  $3.4 \pm 0.2$  Angstrom ( $=0.34 \pm 0.02$  nm) along one of the optical axes. Besides that, the disclosed technical result is achieved by the fact that the display panel comprises optically transparent substrate (6), protective layer (3), system of electrodes (7), and also at least one layer of membranous crystal.

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