

Title (en)

LIQUID CRYSTAL DISPLAY COMPRISING IMPROVED SWITCHING MEANS AT THE DISPLAY PERIPHERY

Title (de)

FLÜSSIGKRISTALLANZEIGE MIT VERBESSERTEN SCHALTMITTELN AN DER ANZEIGEPERIPHERIE

Title (fr)

DISPOSITIF AFFICHEUR A CRISTAL LIQUIDE COMPRENANT DES MOYENS PERFECTIONNES DE COMMUTATION A LA PERIPHERIE DE L'AFFICHEUR

Publication

**EP 1784685 A1 20070516 (FR)**

Application

**EP 05796022 A 20050810**

Priority

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Abstract (en)

[origin: WO2006021675A1] The invention concerns a liquid crystal display comprising two substrates (10, 20) provided with respective electrodes (12, 22), and located on either side of a layer of liquid crystal molecules (30), the electrodes arranged on one at least of the two substrates (10, 20) being coated with an anchoring layer (14, 24) defining a slight zenithal anchoring enabling the anchor to be ruptured and two textures of liquid crystal molecules whose difference in twisting is of the order of  $\pm 180^\circ$  to be switched, by hydrodynamic coupling between both substrates. The invention is characterized in that it comprises on at least one of the two substrates (10, 20) patterns (120) which have at least one thickness at least substantially identical to that of the electrodes (12, 22) and which have adhesion properties relative to said anchoring layer (14, 24) substantially identical to those of the electrodes (12, 22), said patterns (120) not participating in addressing the display, and located in the non-active zone thereof (62), adjacent an active zone (64) at least on both sides of an active zone (64) perpendicular to the brushing direction (40) and to the direction of the hydrodynamic flux, which is parallel to the brushing direction.

IPC 8 full level

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DOCDB simple family (publication)

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