

Title (en)

METHOD FOR MAKING A TFT ACTIVE MATRIX FOR A PROJECTION SYSTEM SCREEN

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER AKTIVEN TFT-MATRIX FÜR EIN PROJEKTIONSANZEIGESYSTEM

Title (fr)

PROCEDE DE FABRICATION DE MATRICE ACTIVE TFT POUR ECRAN DE SYSTEME DE PROJECTION

Publication

EP 0819263 A1 19980121 (FR)

Application

EP 96912073 A 19960405

Priority

- FR 9600521 W 19960405
- FR 9504187 A 19950407

Abstract (en)

[origin: WO9631799A1] A method for making a liquid crystal display active matrix with four masking levels where the control transistors are of the top-gate type. The resulting liquid crystal display is particularly suitable for use in projection display systems. The method comprises, inter alia, the steps of depositing and etching a first opaque level (1) on a transparent insulating plate (2); depositing an insulating transparent film (3); depositing and etching a transparent conductor (7); selectively depositing an ohmic contact then depositing an intrinsic semiconductor material and a gate insulator (8), and performing a first etching of the resulting assembly; depositing and etching an opaque conductive level (9); and performing a second etching of the semiconductor (7) and gate insulator (8) level using the mask of the opaque conductive level (9).

IPC 1-7

G02F 1/136; **G02F 1/1335**; **H01L 27/12**; **H01L 21/84**

IPC 8 full level

G02F 1/136 (2006.01); **G02F 1/1362** (2006.01); **G02F 1/1368** (2006.01); **H01L 21/336** (2006.01); **H01L 29/786** (2006.01); **G02F 1/1335** (2006.01)

CPC (source: EP KR US)

G02F 1/136 (2013.01 - KR); **G02F 1/136209** (2013.01 - EP US); **G02F 1/1368** (2013.01 - EP US); **G02F 1/133512** (2013.01 - EP US); **G02F 1/136213** (2013.01 - EP US)

Citation (search report)

See references of WO 9631799A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9631799 A1 19961010; AU 5504496 A 19961023; EP 0819263 A1 19980121; FR 2732781 A1 19961011; FR 2732781 B1 19970620; JP H11503839 A 19990330; KR 19980703742 A 19981205; US 6174745 B1 20010116

DOCDB simple family (application)

FR 9600521 W 19960405; AU 5504496 A 19960405; EP 96912073 A 19960405; FR 9504187 A 19950407; JP 53004896 A 19960405; KR 19970707142 A 19971007; US 93084397 A 19971007