

Title (en)
A LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF FABRICATION

Title (de)
EINE FLÜSSIGKRISTALLANZEIGEVORRICHTUNG UND DEREN HERSTELLUNGSVERFAHREN

Title (fr)
AFFICHEUR A CRISTAUX LIQUIDES ET PROCEDE DE FABRICATION

Publication
EP 1060436 A1 20001220 (EN)

Application
EP 98954607 A 19981116

Priority
• GB 9803446 W 19981116
• GB 9724142 A 19971114

Abstract (en)
[origin: WO9926107A1] A liquid crystal display device (10) includes a liquid crystal material (15) such as PSCT disposed between first (12) and second glass substrates (14), and means for applying an electric field to the liquid crystal material so as to effect switching of the liquid crystal material. The liquid crystal material (15) is of the type which exhibits at least three stable states in dependence upon an electric field applied, and which maintains its state (exhibits memory) when the electric field is removed. This display device (10) also includes a colour filter (24) comprising at least two different colours. Liquid crystal display device (10) provides an extremely energy efficient, colour liquid crystal display device having grey scale capability. The energy demand of the device is so low, it is envisaged it will be incorporated into consumer items such as palmtop computers, advertising materials, packaging, handheld computer games, etc.

IPC 1-7
G02F 1/137

IPC 8 full level
G02F 1/1335 (2006.01); **G02F 1/137** (2006.01); **G02F 1/141** (2006.01)

CPC (source: EP)
G02F 1/13718 (2013.01); **G02F 1/133514** (2013.01); **G02F 1/13775** (2021.01); **G02F 1/13781** (2013.01); **G02F 2203/02** (2013.01)

Citation (search report)
See references of WO 9926107A1

Designated contracting state (EPC)
BE DE ES FR GB IT NL SE

DOCDB simple family (publication)
WO 9926107 A1 19990527; AU 1166299 A 19990607; EP 1060436 A1 20001220; GB 9724142 D0 19980114; JP 2001523840 A 20011127; TW 434439 B 20010516

DOCDB simple family (application)
GB 9803446 W 19981116; AU 1166299 A 19981116; EP 98954607 A 19981116; GB 9724142 A 19971114; JP 2000521412 A 19981116; TW 87119335 A 19981121