Title (en)

IMAGE DISPLAY PANEL CONSISTING OF A MATRIX OF ELECTROLUMINESCENT CELLS WITH SHUNTED MEMORY EFFECT

Title (de)

BILDANZEIGETAFEL IN FORM EINER MATRIX VON ELEKTROLUMINESZENTEN ZELLEN MIT ÜBERBRÜCKUNG UND DURCH EIN LICHTEMPFINDLICHES ELEMENT ERHALTENEM SPEICHEREFFEKT

Title (fr)

PANNEAU DE VISUALISATION D'IMAGE EN FORME D'UNE MATRICE DE CELLULES ELECTROLUMINESCENTES SHUNTEES ET AVEC EFFET MEMOIRE OBTENU PARMI UN ELEMENT PHOTOSENSIBLE

Publication

EP 1456831 B1 20100519 (FR)

Application

EP 02805375 A 20021212

Priority

- FR 0204314 W 20021212
- FR 0116843 A 20011218

Abstract (en)

[origin: FR2833741A1] The invention concerns a display panel comprising: a front electrode array (18) and a rear electrode array (11); an electroluminescent layer (16) forming, for each cell, an electroluminescent element (E<SB>EL</SB>) connected to an electrode of the front array in A with, in parallel and in accordance with the invention, a shunt element (E<SB>S.EL</SB>); a photoconductive layer (12) forming, for each cell (1), a photoconductive element (E<SB>PC</SB>) connected to an electrode of the rear array (11) in B; means for optical coupling between the electroluminescent element (E<SB>EL</SB>) and the photoconductive element (E<SB>PC</SB>). The shunt of the invention substantially improves memory effect.

[origin: FR2833741A1] The display panel has a front (18) and back (11) network of electrodes, an organic electroluminescent layer (16) forming, for each cell, an electroluminescent element (EEL)connected to an electrode of the front network (A), with a parallel resistance (ERS). A photoconductive layer (12) forms, for each cell, a photoconductor element (EPC) connected to an electrode of the back network (B).

IPC 8 full level

G09G 3/32 (2006.01); **H01L 51/50** (2006.01); **G09F 9/30** (2006.01); **G09G 3/20** (2006.01); **G09G 3/30** (2006.01); **H01L 27/32** (2006.01)

CPC (source: EP KR US)

G09G 3/30 (2013.01 - KR); **G09G 3/3216** (2013.01 - EP US); **H05B 33/04** (2013.01 - KR); G09G 2300/0417 (2013.01 - EP US); G09G 2300/0426 (2013.01 - EP US); G09G 2310/0251 (2013.01 - EP US); G09G 2360/142 (2013.01 - EP US); G09G 2360/148 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

FR 2833741 A1 20030620; AU 2002364644 A1 20030709; CN 100351885 C 20071128; CN 1605091 A 20050406; DE 60236455 D1 20100701; EP 1456831 A2 20040915; EP 1456831 B1 20100519; JP 2005513553 A 20050512; JP 4456868 B2 20100428; KR 100911275 B1 20090811; KR 20040075006 A 20040826; US 2005116618 A1 20050602; US 7439673 B2 20081021; WO 03054843 A2 20030703; WO 03054843 A3 20040415

DOCDB simple family (application)

FR 0116843 A 20011218; AU 2002364644 A 20021212; CN 02825168 A 20021212; DE 60236455 T 20021212; EP 02805375 A 20021212; FR 0204314 W 20021212; JP 2003555482 A 20021212; KR 20047009346 A 20021212; US 49960005 A 20050111