

Title (en)
SUBSTRATE CARRYING AN ELECTRODE, ORGANIC ELECTROLUMINESCENT DEVICE COMPRISING SAID SUBSTRATE, AND PRODUCTION THEREOF

Title (de)
EINE ELEKTRODE TRAGENDES SUBSTRAT, ORGANISCHES ELEKTROLUMINESZENZBAUELEMENT MIT DEM SUBSTRAT UND HERSTELLUNG DIESER

Title (fr)
SUBSTRAT PORTEUR D'UNE ELECTRODE, DISPOSITIF ELECTROLUMINESCENT ORGANIQUE L'INCORPORANT, ET SA FABRICATION

Publication
EP 2220699 A2 20100825 (FR)

Application
EP 08855786 A 20081121

Priority
• FR 2008052108 W 20081121
• FR 0759235 A 20071122

Abstract (en)
[origin: WO2009071821A2] The invention relates to a substrate (1) carrying a composite electrode (2) on a main face (11), said composite electrode comprising an electroconductive network (21) which is a layer consisting of strands of an electroconductive material based on metal and/or metallic oxide, and having a light transmission of at least 60 % at 550 nm, the space between the strands of the network being filled by a so-called electroconductive filling material. The composite electrode also comprises an electroconductive coating (22) which can be separate or not from the filling material covering the electroconductive network and electrically connected to the strands, said coating having a thickness higher than or equal to 40 nm, and a resistivity ρ lower than 105 Ohm. cm and higher than the resistivity of the network. The coating forms a smoothed outer surface of an electrode. The composite electrode also comprises a square resistance lower than or equal to 10 Ohm/square. The invention also relates to the production of the composite electrode and to an organic electroluminescent device (100) comprising said electrode.

IPC 8 full level
H01L 51/52 (2006.01)

CPC (source: CN EP KR US)
H10K 50/814 (2023.02 - CN EP KR US); **B82Y 40/00** (2013.01 - KR); **H10K 50/85** (2023.02 - CN EP KR US); **H10K 2102/00** (2023.02 - KR)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
FR 2924274 A1 20090529; FR 2924274 B1 20121130; CN 101926018 A 20101222; CN 101926019 A 20101222; CN 101926019 B 20140409; CN 105140415 A 20151209; EP 2220699 A2 20100825; EP 2220700 A2 20100825; JP 2011504639 A 20110210; JP 2011504640 A 20110210; JP 2015149293 A 20150820; JP 5547645 B2 20140716; KR 101556423 B1 20151001; KR 20100106412 A 20101001; KR 20100106413 A 20101001; TW 200947783 A 20091116; TW 200949863 A 20091201; TW I496170 B 20150811; US 2011001153 A1 20110106; US 2011001420 A1 20110106; US 8362686 B2 20130129; US 8593055 B2 20131126; WO 2009071821 A2 20090611; WO 2009071821 A3 20090813; WO 2009071822 A2 20090611; WO 2009071822 A3 20090813

DOCDB simple family (application)
FR 0759235 A 20071122; CN 200880125354 A 20081121; CN 200880125381 A 20081121; CN 201510446980 A 20081121; EP 08855786 A 20081121; EP 08856228 A 20081121; FR 2008052108 W 20081121; FR 2008052109 W 20081121; JP 2010534528 A 20081121; JP 2010534529 A 20081121; JP 2015076025 A 20150402; KR 20107013672 A 20081121; KR 20107013673 A 20081121; TW 97145351 A 20081124; TW 97145352 A 20081124; US 74419108 A 20081121; US 74424808 A 20081121