

Title (en)
BACKSIDE-EMITTING OLED DEVICE

Title (de)
RÜCKSEITENEMITTIERENDE OLED-VORRICHTUNG

Title (fr)
DISPOSITIF OLED A EMISSION PAR L'ARRIERE

Publication
EP 2798685 A1 20141105 (FR)

Application
EP 12821292 A 20121228

Priority
• FR 1162590 A 20111230
• FR 2012053100 W 20121228

Abstract (en)
[origin: WO2013098536A1] The invention relates to an OLED device (100) comprising a transparent anode having a given sheet resistance R1, a cathode (3) having a given sheet resistance R2, the ratio $r = R2/R1$ varying between 0.1 and 5, a first suitable anode electrical contact, and a first cathode electrical contact (5a, 5d) which is offset in relation to the suitable anode electrical contact (41) at each point B1 of each suitable anode contact (41), defining a distance D1 between point B1 and the point C1 on the contact surface closest to point B1 and defining a distance L1 between point B1 and a point X1 on a second edge (22) of the active zone opposite the first edge (21) passing through C1, with the following criteria being defined: if $0.1 \leq r < 1.75$, then $20\% < D1/L1$; if $1.75 \leq r < 2.5$, then $20\% < D1/L1 < 90\%$; if $2.5 \leq r < 3$, then $20\% < D1/L1 < 80\%$; or if $3 \leq r \leq 5$, then $20\% < D1/L1 < 70\%$, a reflector (6) covering the active zone (20).

IPC 8 full level
H01L 51/52 (2006.01); **H01L 27/32** (2006.01)

CPC (source: CN EP KR US)
H10K 50/805 (2023.02 - US); **H10K 50/813** (2023.02 - US); **H10K 50/822** (2023.02 - US); **H10K 50/824** (2023.02 - US);
H10K 50/856 (2023.02 - US); **H10K 59/80522** (2023.02 - CN EP KR); **H10K 59/86** (2023.02 - CN EP US); **H10K 59/82** (2023.02 - CN EP KR);
H10K 59/878 (2023.02 - CN EP KR); **H10K 2102/3035** (2023.02 - US)

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

DOCDB simple family (publication)
WO 2013098536 A1 20130704; CN 104137291 A 20141105; EP 2798685 A1 20141105; FR 2985380 A1 20130705; FR 2985380 B1 20140711;
JP 2015503823 A 20150202; KR 20140116891 A 20141006; US 2015041782 A1 20150212; US 9112178 B2 20150818

DOCDB simple family (application)
FR 2012053100 W 20121228; CN 201280070915 A 20121228; EP 12821292 A 20121228; FR 1162590 A 20111230;
JP 2014549530 A 20121228; KR 20147021057 A 20121228; US 201214369351 A 20121228