

Title (en)

IMPROVED DISPLAY DEVICE BASED ON PIXELS WITH VARIABLE CHROMATIC COORDINATES

Title (de)

VERBESSERTE ANZEIGEVORRICHTUNG AUF BASIS VON PIXELN MIT VARIABLEN FARBKOORDINATEN

Title (fr)

DISPOSITIF D'AFFICHAGE AMÉLIORÉ À BASE DE PIXELS À COORDONNÉES CHROMATIQUES VARIABLES

Publication

**EP 2277164 B1 20151014 (FR)**

Application

**EP 09750011 A 20090506**

Priority

- FR 2009000533 W 20090506
- FR 0802584 A 20080513

Abstract (en)

[origin: WO2009141530A1] A pixel with variable chromatic coordinates, comprises a plurality of colour sub-pixels consisting of a light emitter and of a coloured filter. The light emitters are identical and have an emission spectrum that can be modulated as a function of their supply voltage and/or their supply current. The pixel control circuit supplies each colour sub-pixel with a supply voltage (VR) and/or current dependent on the colour of the sub-pixel so that its emission spectrum approximates the transmission spectrum of the associated coloured filter. Control means (T3, RL) make it possible to modify the duration of application of the supply voltage and/or current as a function of the colour of the sub-pixel so as to obtain a predetermined mean luminance over a predetermined period.

IPC 8 full level

**G09G 3/20** (2006.01); **G09G 3/32** (2006.01)

CPC (source: EP US)

**G09G 3/2003** (2013.01 - EP US); **G09G 3/3225** (2013.01 - EP US); **G09G 3/3233** (2013.01 - EP US); **G09G 3/325** (2013.01 - EP US); **G09G 3/3258** (2013.01 - EP US); **G09G 2300/0452** (2013.01 - EP US); **G09G 2300/0814** (2013.01 - EP US); **G09G 2300/0842** (2013.01 - EP US); **G09G 2300/0861** (2013.01 - EP US); **G09G 2300/0866** (2013.01 - EP US); **G09G 2310/0235** (2013.01 - EP US); **G09G 2310/0251** (2013.01 - EP US); **G09G 2310/0254** (2013.01 - EP US); **G09G 2320/0242** (2013.01 - EP US); **G09G 2320/0666** (2013.01 - EP US)

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2931296 A1 20091120; FR 2931296 B1 20130426**; EP 2277164 A1 20110126; EP 2277164 B1 20151014; JP 2011523467 A 20110811; JP 5490784 B2 20140514; KR 101614174 B1 20160420; KR 20110007182 A 20110121; US 2011037791 A1 20110217; US 8749596 B2 20140610; WO 2009141530 A1 20091126

DOCDB simple family (application)

**FR 0802584 A 20080513**; EP 09750011 A 20090506; FR 2009000533 W 20090506; JP 2011508969 A 20090506; KR 20107025365 A 20090506; US 98865709 A 20090506