

Title (en)

LIGHT EMITTING DIODE ASSEMBLY, BACKLIGHTING DEVICE AND DISPLAY DEVICE

Title (de)

LUMINESZENZDIODENANORDNUNG, HINTERLEUCHTVORRICHTUNG UND ANZEIGEVORRICHTUNG

Title (fr)

SYSTÈME DE DIODE ÉLECTROLUMINESCENTE, DISPOSITIF DE RÉTROÉCLAIRAGE ET DISPOSITIF D'AFFICHAGE

Publication

EP 2517271 A1 20121031 (DE)

Application

EP 10795318 A 20101215

Priority

- DE 102010012423 A 20100323
- DE 102009059889 A 20091221
- EP 2010069812 W 20101215

Abstract (en)

[origin: WO2011085897A1] The invention relates to a light emitting diode assembly (1) having a first light emitting diode chip (2), a second light emitting diode chip (3) and a light emission conversion element (4, 4a, 4b). The first light emitting diode chip (2) is designed to emit blue light. The second light emitting diode chip (3) comprises a semiconductor layer sequence, which is designed to emit green light. The light emission conversion element (4, 4a, 4b) is designed to convert a part of the blue light emitted by the first light emitting diode chip (2) to red light. The light emitting diode assembly (1) is designed to radiate mixed light which comprises blue light from the first light emitting diode chip (2), green light from the second light emitting diode chip (3) and red light from the light emission conversion element (4). The invention also relates to a backlighting device (10) and to a display device.

IPC 8 full level

H01L 33/50 (2010.01); **G02F 1/13357** (2006.01)

CPC (source: EP KR US)

H01L 33/50 (2013.01 - EP KR US); **G02F 1/133603** (2013.01 - EP US); **H01L 25/0753** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Citation (search report)

See references of WO 2011085897A1

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 2011085897 A1 20110721; CN 102714262 A 20121003; DE 102010012423 A1 20110622; EP 2517271 A1 20121031; JP 2013515366 A 20130502; KR 20120094525 A 20120824; US 2012274878 A1 20121101; US 9214608 B2 20151215

DOCDB simple family (application)

EP 2010069812 W 20101215; CN 201080058845 A 20101215; DE 102010012423 A 20100323; EP 10795318 A 20101215; JP 2012545235 A 20101215; KR 20127019088 A 20101215; US 201013517320 A 20101215