

Title (en)
LIGHT EMITTING DIODE LIGHT SOURCE

Title (de)
LED-LICHTQUELLE

Title (fr)
SOURCE DE LUMIÈRE À DIODES ÉLECTROLUMINESCENTES

Publication
EP 2554018 A1 20130206 (EN)

Application
EP 11716052 A 20110323

Priority
• CN 201010140027 A 20100402
• IB 2011051216 W 20110323

Abstract (en)
[origin: WO2011121489A1] A light emitting diode light source (100) is provided in the present invention, comprising a red light emitting diode array (110); a phosphor-coated blue light emitting diode array (120), a color point of the mixed light emitted from the phosphor-coated blue light emitting diode array (120) falling within a quadrilateral of the CIE chromaticity diagram, wherein coordinates of four vertices of the quadrilateral are (0.375, 0.427), (0.390, 0.456), (0.366, 0.430), (0.38, 0.46); wherein, when the junction temperature of light emitting diodes of the phosphor-coated blue light emitting diode array (120) and light emitting diodes of the red light emitting diode array (110) is substantially equal to room temperature, the ratio of the lumen output of the phosphor-coated blue light emitting diode array (120) to the lumen output of the red light emitting diode array (110) is within a range of 4:1 to 1.5:1. With the light emitting diode light source (100) of the present invention, the quality of the warm white light is efficiently improved.

IPC 8 full level
F21K 9/00 (2016.01); **H05B 44/00** (2022.01); **F21Y 113/10** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21K 9/00 (2013.01 - EP US); **H05B 45/28** (2020.01 - EP US); **F21Y 2113/13** (2016.07 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
See references of WO 2011121489A1

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 2011121489 A1 20111006; CN 102812782 A 20121205; CN 102812782 B 20160504; EP 2554018 A1 20130206; EP 2554018 B1 20170510; JP 2013524427 A 20130617; JP 5805175 B2 20151104; PL 2554018 T3 20171130; RU 2012146737 A 20140510; RU 2557016 C2 20150720

DOCDB simple family (application)
IB 2011051216 W 20110323; CN 201180016997 A 20110323; EP 11716052 A 20110323; JP 2013501997 A 20110323; PL 11716052 T 20110323; RU 2012146737 A 20110323