

Title (en)

Apparatus and methods for tuning of emitter with multiple LEDs to a single color bin

Title (de)

Vorrichtung und Verfahren zur Abstimmung eines Senders mit mehreren LEDs zu einer Einzelfarbklassifizierung

Title (fr)

Appareil et procédés de réglage d'émetteur avec plusieurs DEL pour corbeille à couleur unique

Publication

EP 2523534 A2 20121114 (EN)

Application

EP 12166091 A 20120428

Priority

- US 201113106808 A 20110512
- US 201113106810 A 20110512

Abstract (en)

Apparatus and methods are provided for tuning the color of an LED-based lamp (100) to a desired color or color temperature. The lamp (100) can include two or more independently addressable groups of LEDs associated with different colors or color temperatures. The color (or color temperature) of the output light is tuned by controllably dividing an input current among the groups of LEDs. An optimal division of the input current is determined based on a linear interpolation between measured values of color or color temperature produced by at least two different divisions of the input current. Tuning can be performed once, e.g., during manufacture, and the lamp (100) does not require active feedback components for maintaining color temperature.

IPC 8 full level

H05B 33/08 (2006.01); **H05B 44/00** (2022.01)

CPC (source: CN EP US)

F21K 9/00 (2013.01 - EP); **F21K 9/62** (2016.07 - EP); **H05B 45/20** (2020.01 - CN EP US); **F21K 9/60** (2016.07 - EP); **F21Y 2113/17** (2016.07 - EP)

Citation (applicant)

- US 2010091491 A1 20100415 - JIANG WU [US], et al
- US 2010259930 A1 20101014 - YAN XIANTAO [US]

Cited by

CN111107690A; US10575374B2; USD1011573S; US11172558B2; WO2017189791A1; EP2992734A1; US10034346B2; US10257904B2; US10874008B2; US11140758B2; US11240895B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2523534 A2 20121114; **EP 2523534 A3 20130821**; **EP 2523534 B1 20190807**; CN 102781140 A 20121114; CN 102781140 B 20160203; CN 105657893 A 20160608; CN 105657893 B 20190607; JP 2012238596 A 20121206; JP 6244082 B2 20171206

DOCDB simple family (application)

EP 12166091 A 20120428; CN 201210152355 A 20120514; CN 201610006714 A 20120514; JP 2012109292 A 20120511