

Title (en)

Controllers, systems and methods for controlling dimming of light sources

Title (de)

Steuerungen, Systeme und Verfahren zur Steuerung der Dämpfung einer Lichtquelle

Title (fr)

Contrôleurs, systèmes et procédés pour le contrôle de gradation des sources lumineuses

Publication

EP 2498579 A2 20120912 (EN)

Application

EP 12156751 A 20120223

Priority

US 201113042349 A 20110307

Abstract (en)

A controller for controlling dimming of an LED light source includes a control terminal and dimming control circuitry coupled to the control terminal. The control terminal provides a driving signal to control a control switch coupled to the LED light source, thereby controlling the dimming of the LED light source. The dimming control circuitry generates the driving signal according to a set of operations of a power switch that transfers an AC signal. The dimming control circuitry further adjusts the driving signal by counting multiple waves of the AC signal to control the dimming of the LED light source.

IPC 8 full level

H05B 44/00 (2022.01)

CPC (source: EP US)

H05B 45/10 (2020.01 - EP US); **H05B 47/185** (2020.01 - EP US)

Cited by

EP2816874A1; EP2765830A1; GB2493054A; EP3565382A1; US11191143B2; US10630176B2; US11340640B2

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 2498579 A2 20120912; EP 2498579 A3 20131113; BR 102012005134 A2 20160719; CN 102685975 A 20120919; CN 102685975 B 20141112; IN 358DE2012 A 20150410; JP 2012186165 A 20120927; JP 6104511 B2 20170329; TW 201238397 A 20120916; TW I483647 B 20150501

DOCDB simple family (application)

EP 12156751 A 20120223; BR 102012005134 A 20120307; CN 201210056744 A 20120306; IN 358DE2012 A 20120208; JP 2012045247 A 20120301; TW 101107567 A 20120307