

Title (en)  
DIRECT DRIVE LED LIGHTING

Title (de)  
DIREKTANGETRIEBENE LED-BELEUCHTUNG

Title (fr)  
ÉCLAIRAGE PAR DEL À ENTRAÎNEMENT DIRECT

Publication  
**EP 3258743 A1 20171220 (EN)**

Application  
**EP 16174276 A 20160613**

Priority  
EP 16174276 A 20160613

Abstract (en)  
A direct drive LED lighting circuit includes a LED current control circuit with a power switching device; a current sensing device, an averaging circuit, and an error amplifier. A LED chain circuit is formed by connecting several LEDs in series with a capacitor connecting in parallel with the series of LEDs, with a current flowing in side as a positive terminal, and a current leaving terminal as a negative terminal. The LED chain circuit and the LED current control circuit are connecting in series and the whole circuit is connected between the positive and negative terminals of a rectified AC power source.

IPC 8 full level  
**H05B 44/00** (2022.01)

CPC (source: EP)  
**H05B 45/44** (2020.01)

Citation (search report)

- [Y] US 2013187550 A1 20130725 - LO YUAN-HUNG [TW], et al
- [Y] EP 2958402 A1 20151223 - NXP BV [NL]
- [A] EP 2563094 A2 20130227 - O2MICRO INC [US]

Cited by  
CN114401570A; EP3506475A1; CN109980960A; US10536082B2

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 3258743 A1 20171220**; JP 2017224586 A 20171221

DOCDB simple family (application)  
**EP 16174276 A 20160613**; JP 2016207151 A 20161021