

Title (en)

Circuit and method for operating at least one Led and at least one discharge lamp

Title (de)

Schaltungsanordnung und Verfahren zum Betrieb mindestens einer LED und mindestens einer elektrischen Entladungsampe

Title (fr)

Circuit et méthode pour alimenter au moins une Del et au moins une lampe à décharge

Publication

EP 1740020 A3 20070228 (DE)

Application

EP 06013145 A 20060626

Priority

DE 102005030115 A 20050628

Abstract (en)

[origin: EP1740020A2] The arrangement has terminals (A, A2) provided for respective filaments of an electric lamp (LP). A lamp supply unit supplies power to the lamp. A light emitting diode (LED) supply unit (10) is coupled to one terminal of the lamp and supplies power to an LED. A zener diode (Z1) is connected in parallel with the LED. A rectifier is designed to provide a rectified signal at an output of the LED supply unit. A smoothing inductor is connected in series with the LED. Transformation ratio of a transformer and capacitance of capacitors are selected to set properties of light output by the LED. An independent claim is also included for a method of operating a light-emitting diode (LED) and an electric lamp.

IPC 8 full level

H05B 35/00 (2006.01); **H05B 41/282** (2006.01)

CPC (source: EP US)

H05B 35/00 (2013.01 - EP US)

Citation (search report)

- [X] WO 2004097866 A1 20041111 - LIMPKIN GEORGE ALAN [GB]
- [A] EP 1076476 A2 20010214 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] DE 10013207 A1 20010920 - TRIDONIC BAUELEMENTE [AT]

Cited by

EP2362717A3; FR2941822A1; WO2009033471A3; WO2010086573A1; WO2007066252A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1740020 A2 20070103; EP 1740020 A3 20070228; CA 2550952 A1 20061228; CN 1968560 A 20070523; DE 102005030115 A1 20070118; US 2006290299 A1 20061228

DOCDB simple family (application)

EP 06013145 A 20060626; CA 2550952 A 20060627; CN 200610164725 A 20060628; DE 102005030115 A 20050628; US 47509606 A 20060627