

Title (en)
Switching assembly for operating at least one semiconductor light source

Title (de)
Schaltungsanordnung zum Betrieb mindestens einer Halbleiterlichtquelle

Title (fr)
Installation de commutation destinée au fonctionnement d'au moins une source lumineuse semi-conductrice

Publication
EP 2157834 A3 20140514 (DE)

Application
EP 09168098 A 20090818

Priority
DE 102008039351 A 20080822

Abstract (en)
[origin: EP2157834A2] The arrangement has an input for supplying an input voltage (Vin), and an output for outputting an output voltage to a semiconductor light source (D1) i.e. LED. A main current path has a serial connection of a switch i.e. power MOSFET (Q1), an inductor (L) and an anti-parallel connection of a diode (D2) and/or the light source. A storage capacitor (C3) is arranged parallel to the light source, and a resonance capacitor (C1) is arranged parallel to the switch and has capacity greater than effective active parasitic capacity of the switch.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP KR US)
H05B 45/00 (2020.01 - KR); **H05B 45/30** (2020.01 - EP US); **H05B 45/37** (2020.01 - EP KR US); **H05B 45/48** (2020.01 - KR)

Citation (search report)

- [X] WO 2007102106 A2 20070913 - PHILIPS INTELLECTUAL PROPERTY [DE], et al
- [A] DE 19917364 A1 20001019 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

Cited by
EP2846608A1; WO2015031930A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2157834 A2 20100224; EP 2157834 A3 20140514; CN 101657056 A 20100224; DE 102008039351 B3 20100128; JP 2010050460 A 20100304; KR 101719474 B1 20170324; KR 20100023770 A 20100304; US 2010045208 A1 20100225; US 8188678 B2 20120529

DOCDB simple family (application)
EP 09168098 A 20090818; CN 200910171305 A 20090821; DE 102008039351 A 20080822; JP 2009192420 A 20090821; KR 20090077523 A 20090821; US 54635909 A 20090824