Title (en)

Shutdown circuit for the inverter of an electronic ballast

Title (de)

Abschaltschaltung für den Wandler eines elektronischen Vorschaltgeräts

Title (fr)

Circuit d'arret pour l'onduleur d'un ballast électronique

Publication

EP 1765042 A3 20080213 (DE)

Application

EP 06012554 A 20060619

Priority

DE 102005028419 A 20050620

Abstract (en)

[origin: DE102005028419A1] The ballast has an intermediate circuit capacitor (C6) for supplying a DC voltage to switching units (V1, V2). A pump switch diode, capacitors and a lamp inductor charge the capacitor. A varistor (R8), a measuring resistor (R3), a shutdown device (SD), a diode (D5), integration and discharge resistors (R4, R5) and an integration capacitor (C3) are connected in parallel with the capacitor (C6) for limiting voltage across the capacitor (C6). The varistor converts electrical energy into thermal energy when a maximum value for the voltage across the capacitor is exceeded. An independent claim is also included for a method for operating an electronic ballast for a discharge lamp.

IPC 8 full level

H05B 41/285 (2006.01)

CPC (source: EP KR US)

H05B 41/24 (2013.01 - KR); **H05B 41/28** (2013.01 - EP US); **H05B 41/2853** (2013.01 - EP US); **H05B 41/2855** (2013.01 - EP US); **H05B 41/292** (2013.01 - KR)

Citation (search report)

- [Y] EP 0411618 A2 19910206 - ZUMTOBEL AG [AT]
- [Y] EP 0276460 A1 19880803 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [Y] US 4538095 A 19850827 - NILSSEN OLE K [US]
- [A] EP 0808084 A2 19971119 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] EP 0648068 A1 19950412 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

Cited by

CN101909395A; US9906213B2

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)

DE 102005028419 A1 20061228; CA 2550365 A1 20061220; CN 1893758 A 20070110; CN 1893758 B 20110420; EP 1765042 A2 20070321; EP 1765042 A3 20080213; KR 20060133470 A 20061226; RU 2006121385 A 20071227; RU 2390107 C2 20100520; TW 200708197 A 20070216; US 2006284566 A1 20061221; US 7190127 B2 20070313

DOCDB simple family (application)

DE 102005028419 A 20050620; CA 2550365 A 20060616; CN 200610106031 A 20060620; EP 06012554 A 20060619; KR 20060054753 A 20060619; RU 2006121385 A 20060616; TW 95121591 A 20060616; US 45508906 A 20060619