

Title (en)

Ballast with control circuit for the permanent operation of a discharge lamp

Title (de)

Vorschaltgerät für Entladungslampe mit Dauerbetriebs-Regelschaltung

Title (fr)

Ballast avec circuit de contrôle pour l' alimentation permanente d' une lampe à décharge

Publication

EP 1601237 A3 20090708 (DE)

Application

EP 05010155 A 20050510

Priority

DE 102004025774 A 20040526

Abstract (en)

[origin: EP1601237A2] The circuit can act as a starter for two gas discharge lamps (LA1,LA2). The terminals of the lamp electrodes (KL2-1 to KL2-4) are connected to two transformers (TR1,TR2) with a PTC resistor (R1) connected between them. The supply voltage (L,N) is connected to terminals (KL1-1,KL1-2) of a filter with two capacitors (C1,C2) and two coupled coils (F1). There are connections via diodes (D1-D6) and capacitors (C8,C10) to first (V1) and second (V2) differential transistors. The circuit includes a choke (LD1) for controlling the lamp current. Preheating time may be controlled during starting of the lamps.

IPC 8 full level

H05B 41/298 (2006.01); **H05B 41/14** (2006.01); **H05B 41/295** (2006.01); **H05B 41/36** (2006.01)

CPC (source: EP US)

H05B 41/295 (2013.01 - EP US); **H05B 41/2988** (2013.01 - EP US)

Citation (search report)

- [PX] EP 1443807 A2 20040804 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] US 5583399 A 19961210 - RUDOLPH BERND [DE]
- [A] EP 0378992 A1 19900725 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] WO 0233502 A1 20020425 - INT RECTIFIER CORP [US]

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1601237 A2 20051130; EP 1601237 A3 20090708; CA 2508131 A1 20051126; CN 1703135 A 20051130; CN 1703135 B 20110126; DE 102004025774 A1 20051222; US 2005264243 A1 20051201; US 7355348 B2 20080408

DOCDB simple family (application)

EP 05010155 A 20050510; CA 2508131 A 20050524; CN 200510078360 A 20050526; DE 102004025774 A 20040526; US 13546105 A 20050524