

Title (en)

TYPE RECOGNITION OF A GAS DISCHARGE LAMP TO BE OPERATED WITH AN ELECTRONIC BALLAST

Title (de)

TYPERKENNUNG EINER MIT EINEM ELEKTRONISCHEN VORSCHALTGERÄT ZU BETREIBENDEN GASENTLADUNGSLAMPE

Title (fr)

IDENTIFICATION DU TYPE D'UNE LAMPE À DÉCHARGE DESTINÉE À FONCTIONNER AVEC UN BALLAST ÉLECTRONIQUE

Publication

**EP 2248395 A1 20101110 (DE)**

Application

**EP 09716525 A 20090226**

Priority

- EP 2009001373 W 20090226
- DE 102008012451 A 20080304
- DE 102008022198 A 20080506

Abstract (en)

[origin: WO2009109325A1] The invention relates to a method for determining the type of gas discharge lamp (L) to be operated with an electronic ballast (V). According to said method, the coil voltage and the coil current are measured according to two successive times during the pre-heating phase. The heating power or the heating current is kept constant. From the measured current and voltage values, the cold resistance (Rcold) and the hot resistance (Rhot) are calculated and the differential resistance (Rdiff), that is normally independent of the starting temperature of the coil, is formed therefrom. In order to determine whether the gas discharge lamp is replaced by a substitution resistance (Rsub) for test purposes, it is tested whether the differential resistance (Rdiff) is lower than the substitution resistance (Rsub) and if this is the case, the hot resistance value (Rhot) is set as the differential resistance (Rdiff). With the aid of the thus defined differential resistance (Rdiff), the type of lamp is determined by comparing it to the stored reference values (level 1, level 2, level 3) in order to set corresponding operational parameters.

IPC 8 full level

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

CPC (source: EP)

**H05B 41/295** (2013.01); **H05B 41/36** (2013.01)

Citation (search report)

See references of WO 2009109325A1

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 102008022198 A1 20090910**; AT E533338 T1 20111115; CN 101965756 A 20110202; CN 101965756 B 20140402; DE 112009000354 A5 20110203; EP 2248395 A1 20101110; EP 2248395 B1 20111109; WO 2009109325 A1 20090911

DOCDB simple family (application)

**DE 102008022198 A 20080506**; AT 09716525 T 20090226; CN 200980107864 A 20090226; DE 112009000354 T 20090226; EP 09716525 A 20090226; EP 2009001373 W 20090226