

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR IGNITING A HIGH-PRESSURE DISCHARGE LAMP

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUM ZÜNDEN EINER HOCHDRUCKENTLADUNGSLAMPE

Title (fr)

MONTAGE ÉLECTRIQUE ET PROCÉDÉ POUR ALLUMER UNE LAMPE À DÉCHARGE À HAUTE PRESSION

Publication

EP 2095692 A1 20090902 (DE)

Application

EP 06819797 A 20061128

Priority

EP 2006068973 W 20061128

Abstract (en)

[origin: WO2008064715A1] The present invention relates to a circuit arrangement and corresponding method for igniting a high-pressure discharge lamp (LA), comprising a main combustion chamber (HaBK) with a first and a second main electrode (HaE1, HaE2) and an auxiliary combustion chamber (HiBK), with an inverter (10), a control circuit for controlling the electronic switches (S1, S2, S3, S4) of the inverter (10), an auxiliary ignition circuit (14), comprising: a first and a second input connection (ZE1, ZE2), a first output connection (ZA1) for connecting the first main electrode (HaE1) of the high-pressure discharge lamp (LA), a second output connection (ZA2) for connecting the second main electrode (HaE2) of the high-pressure discharge lamp (LA), and an auxiliary electrode (HiE) for inducing an auxiliary ignition voltage in the auxiliary combustion chamber (HiBk). The auxiliary electrode (HiE) is arranged on the side of the first output connection and the auxiliary ignition circuit (14) comprises a cascade circuit, which at the output thereof provides a voltage for igniting the high-pressure discharge lamp (LA).

IPC 8 full level

H05B 41/04 (2006.01); **H05B 41/288** (2006.01)

CPC (source: EP KR US)

H05B 41/042 (2013.01 - EP US); **H05B 41/14** (2013.01 - KR); **H05B 41/24** (2013.01 - KR); **H05B 41/2881** (2013.01 - EP US); **Y02B 20/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2008064715A1

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

DOCDB simple family (publication)

WO 2008064715 A1 20080605; CN 101529985 A 20090909; CN 101529985 B 20120926; EP 2095692 A1 20090902; JP 2010511272 A 20100408; KR 101332254 B1 20131125; KR 20090087101 A 20090814; TW 200835391 A 20080816; US 2010066259 A1 20100318; US 8169153 B2 20120501

DOCDB simple family (application)

EP 2006068973 W 20061128; CN 200680056136 A 20061128; EP 06819797 A 20061128; JP 2009538593 A 20061128; KR 20097013476 A 20061128; TW 96144733 A 20071126; US 51669309 A 20090528