

Title (en)
CIRCUIT ARRANGEMENT AND METHOD FOR OPERATION OF A DISCHARGE LAMP

Title (de)
SCHALTUNGSANORDNUNG UND VERFAHREN ZUM BETREIBEN EINER ENTLADUNGSLAMPE

Title (fr)
MONTAGE ET PROCÉDÉ DE FONCTIONNEMENT D'UNE LAMPE À DÉCHARGE

Publication
EP 2327276 A1 20110601 (DE)

Application
EP 08804310 A 20080917

Priority
EP 2008062358 W 20080917

Abstract (en)
[origin: WO2010031430A1] The present invention relates to a circuit arrangement for operation of a discharge lamp, comprising: an input having a first input connection (E1) and a second input connection (E2) for connection of a supply voltage; a first electronic switch (Q1), which has a control electrode, a working electrode and a reference electrode, wherein the working electrode is coupled to the first input connection (E1); a first diode (D1), the anode of which is coupled to the second input (E2) and the cathode of which is coupled to the reference electrode of the first electronic switch (Q1) to form a first junction point (N); a control apparatus (12), which is coupled to the control electrode of the first electronic switch (Q1) in order to drive said first electronic switch (Q1); an output with a first output connection (A1) and a second output connection (A2) for providing an output voltage (UA) to the discharge lamp (La); an inductance (Lz), which is arranged in series with one of the output connections (A1; A2); a lamp inductor (L1), which is coupled between the first junction point (N) and the first output connection (A1); and a first capacitor (C1), which is coupled between the first output connection (A1) and the anode of the first diode (D1); wherein the control apparatus (12) is designed to switch the first electronic switch (Q1) on continuously for a switched-on time and to switch it off continuously for a switched-off time; wherein the circuit arrangement furthermore comprises a voltage measurement apparatus (10) for measuring the output voltage (UA), wherein the voltage measurement apparatus (10) is designed to produce at its output a signal which is correlated with the measured output voltage (UA) wherein the voltage measurement apparatus (10) is coupled to the control apparatus (12) in order to transmit this signal to the control apparatus (12), and wherein the control apparatus (12) is designed to vary the switched-off time (Toff) as a function of the measured output voltage (UA). The invention furthermore relates to a corresponding method for operation of a discharge lamp.

IPC 8 full level
H05B 41/282 (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP KR US)
H05B 41/14 (2013.01 - KR); **H05B 41/282** (2013.01 - KR); **H05B 41/2828** (2013.01 - EP US); **H05B 41/392** (2013.01 - KR); **H05B 41/3925** (2013.01 - EP US)

Citation (search report)
See references of WO 2010031430A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2010031430 A1 20100325; CN 102160467 A 20110817; CN 102160467 B 20140122; EP 2327276 A1 20110601; EP 2327276 B1 20130619; JP 2012503270 A 20120202; JP 5542824 B2 20140709; KR 20110056546 A 20110530; TW 201014469 A 20100401; US 2011169427 A1 20110714; US 8531122 B2 20130910

DOCDB simple family (application)
EP 2008062358 W 20080917; CN 200880131216 A 20080917; EP 08804310 A 20080917; JP 2011526377 A 20080917; KR 20117008635 A 20080917; TW 98131039 A 20090915; US 200813119204 A 20080917