

Title (en)  
CIRCUIT CONFIGURATION FOR GENERATING AN AUXILIARY VOLTAGE AND FOR OPERATING AT LEAST ONE DISCHARGE LAMP

Title (de)  
SCHALTUNGSANORDNUNG ZUM ERZEUGEN EINER HILFSSPANNUNG UND ZUM BETREIBEN MINDESTENS EINER ENTLADUNGSLAMPE

Title (fr)  
CIRCUIT PERMETTANT DE PRODUIRE UNE TENSION AUXILIAIRE ET DE FAIRE FONCTIONNER AU MOINS UNE LAMPE À DÉCHARGE

Publication  
**EP 2138015 B1 20120411 (DE)**

Application  
**EP 07728411 A 20070423**

Priority  
EP 2007053954 W 20070423

Abstract (en)  
[origin: US8098022B2] A circuit arrangement for operating at least one discharge lamp may include: a first and a second input terminal for connecting a supply voltage; an inverter, which includes at least one first switch and one second switch, which are coupled in series between the first and the second input terminal and between which a bridge center point is defined; a drive circuit for at least the first switch and the second switch with an input for receiving a control signal; an apparatus for generating an auxiliary voltage. The apparatus may include: a first capacitor; a terminal for the provision of the auxiliary voltage, which terminal is coupled to a reference potential via the first capacitor; a two-state controller with a first input to which the control signal in inverted form is coupled, a second input, which is coupled to the terminal for the provision of the auxiliary voltage, and an output; a switch—with a control electrode, a working electrode and a reference electrode, the control electrode being coupled to the output of the two-state controller, the working electrode being coupled to the terminal for the provision of the auxiliary voltage; and a nonreactive resistor; wherein the apparatus for generating the auxiliary voltage furthermore includes a transformer with a primary winding and a secondary winding, the transformer being coupled to the first and the second input terminal, the terminal for the provision of the auxiliary voltage and the switch in such a way that a current through the switch results in a current through the primary winding, in a current through the secondary winding and therefore in charging of the first capacitor.

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

CPC (source: EP KR US)  
**H05B 41/282** (2013.01 - KR); **H05B 41/2825** (2013.01 - EP 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 LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008128575 A1 20081030**; AT E553633 T1 20120415; CN 101658074 A 20100224; CN 101658074 B 20131120; EP 2138015 A1 20091230; EP 2138015 B1 20120411; KR 101387051 B1 20140418; KR 20100017276 A 20100216; US 2010148699 A1 20100617; US 8098022 B2 20120117

DOCDB simple family (application)  
**EP 2007053954 W 20070423**; AT 07728411 T 20070423; CN 200780052704 A 20070423; EP 07728411 A 20070423; KR 20097024371 A 20070423; US 59698907 A 20070423