

Title (en)  
CIRCUIT ARRANGEMENT FOR OPERATING HID DISCHARGE LAMPS

Title (de)  
SCHALTUNGSANORDNUNG ZUM BETREIBEN VON HID-LADUNGSLAMPEN

Title (fr)  
ARRANGEMENT DE CIRCUIT POUR FAIRE FONCTIONNER DES LAMPES À DÉCHARGE HID

Publication  
**EP 2263425 A1 20101222 (DE)**

Application  
**EP 09724263 A 20090319**

Priority  
• EP 2009002046 W 20090319  
• DE 102008015643 A 20080325  
• DE 102008017545 A 20080407

Abstract (en)  
[origin: WO2009118128A1] The invention relates to a circuit arrangement for operating a gas discharge lamp, with a full-bridge circuit to which a DC voltage (UO) is applied and which comprises four controllable switches (S1-S4), wherein a gas discharge lamp (EL) is intended to be arranged in a bridge branch which connects a node between the first switch (S1) and the second switch (S2) to a node between the third switch (S3) and the fourth switch (S4), and with a control circuit (1), which alternately activates one of the two bridge diagonals, each of which comprises a high-frequency-clocked switch and a low-frequency-clocked switch, wherein the control circuit (1) closes a high-frequency-clocked switch of a bridge diagonal whenever a measurement signal fulfils a reconnection condition, wherein the control circuit (1) also opens the low-frequency-clocked switch of the same bridge diagonal after a predetermined period of time (T2) after the opening of the high-frequency-clocked switch (Figure 2b) if until that point the reconnection condition for the high-frequency-clocked switch has not yet been fulfilled, in order to allow the bridge branch current to decrease more rapidly, wherein the closing of the low-frequency-clocked switch and/or the high-frequency-clocked switch takes place temporally after the onset of the reconnection condition of the high-frequency-clocked switch.

IPC 8 full level  
**H05B 41/288** (2006.01); **H05B 41/292** (2006.01); **H05B 41/38** (2006.01)

CPC (source: EP)  
**H05B 41/2887** (2013.01); **H05B 41/2921** (2013.01); **Y02B 20/00** (2013.01)

Citation (search report)  
See references of WO 2009118128A1

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 102008017545 A1 20091001**; CN 101982020 A 20110223; CN 101982020 B 20141217; EP 2263425 A1 20101222; WO 2009118128 A1 20091001

DOCDB simple family (application)  
**DE 102008017545 A 20080407**; CN 200980110643 A 20090319; EP 09724263 A 20090319; EP 2009002046 W 20090319