

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

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Application  
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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.

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