Title (en)
METHOD FOR CONTROLLING A HALF-BRIDGE CIRCUIT AND CORRESPONDING HALF-BRIDGE CIRCUIT

Title (de)
VERFAHREN ZUM STEUERN EINER HALBBRÜCKENSCHALTUNG UND ENTSPRECHENDE HALBBRÜCKENSCHALTUNG

Title (fr)
PROCÉDÉ DE COMMANDE D'UN CIRCUIT EN DEMI-PONT, ET CIRCUIT EN DEMI-PONT CORRESPONDANT

Publication
EP 2111730 A1 20091028 (DE)

Application
EP 07704044 A 20070122

Priority
EP 2007050576 W 20070122

Abstract (en)
[origin: WO2008089839A1] When operating a discharge lamp, an ignition burst should be generated safely independently of tolerances of the load circuit components. For this purpose, a circuit arrangement having a freely oscillating half-bridge inverter is provided for operating gas discharge lamps. The activation of the half-bridge switch is enabled only during an on time by means of a stop device. The oscillating frequency of the half-bridge inverter can be adjusted by the duration of the on time. The circuit arrangement is characterized in that through flow control an on time (t_{on}) is initially determined during the preheating time of the electrodes of the lamps by means of a timer, the on time being shorter than a quarter of the period duration of the resonance frequency of the reactance network, and that this on time is continuously increased after the preheating time of the electrodes of the lamps, until it corresponds to at least a quarter of the period duration of the resonance frequency of a reactance network of the load circuit.

IPC 8 full level
H05B 41/282 (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2008089839A1

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