

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR OPERATION OF A HIGH-PRESSURE DISCHARGE LAMP BELOW ITS NOMINAL POWER

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUM BETREIBEN EINER HOCHDRUCKENTLADUNGSLAMPE UNTERHALB IHRER NOMINALEN LEISTUNG

Title (fr)

AGENCEMENT DE CIRCUIT ET PROCÉDÉ DE FONCTIONNEMENT D'UNE LAMPE À DÉCHARGE À HAUTE PRESSION SOUS SA PUISSANCE NOMINALE

Publication

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Application

**EP 11779370 A 20111024**

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Abstract (en)

[origin: WO2012062556A1] The invention relates to a method for operation of a high-pressure discharge lamp below its nominal power, wherein the high-pressure discharge lamp is operated at the nominal power level with an alternating current at a predetermined operating frequency, and the lamp voltage is measured during one half-cycle, at least at the start of a half-cycle and at the end of a half-cycle, with the following steps: - reduction of the instantaneous operating frequency below an upper limit, - changing the current waveform of the alternating current to a current waveform which is in the form of a pitched roof and is dependent on the difference between the lamp voltages at the end and at the start of the half-cycle, in which the magnitude of the current |Istart| at the start of the half-cycles with respect to the magnitude of the current |Iend| at the end of the half-cycles behaves in a manner such as  $|Istart|:|Iend| = 1:1.2.. 1:3.0$ . The invention likewise relates to a circuit arrangement for operation of a high-pressure discharge lamp below its nominal power, wherein the high-pressure discharge lamp is operated at the nominal power with an alternating current at a predetermined operating frequency, and the circuit arrangement carries out the method described above.

IPC 8 full level

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