

Title (en)

METHOD AND CIRCUIT FOR OPERATING A SODIUM HIGH-PRESSURE LAMP

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG FÜR DEN BETRIEB EINER NATRIUMHOCHDRUCKLAMPE

Title (fr)

PROCEDE ET CIRCUIT POUR FAIRE FONCTIONNER UNE LAMPE HAUTE PRESSION AU SODIUM

Publication

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Application

EP 01953887 A 20010709

Priority

- DE 0102549 W 20010709
- DE 10033262 A 20000710

Abstract (en)

[origin: WO0205600A1] Sodium high-pressure lamps can be operated using a circuit, which rectifies the a.c. supply voltage and which, while eliminating smoothing, feeds the supply voltage directly to a power inverter for generating a frequency greater than 1 kHz. The voltage that is modulated to double the power-line frequency is supplied via an HF inductive resistor and via an ignition transmitter to the lamp, which is preferably filled with xenon to a pressure exceeding 1 bar. The savings in electric energy for the system lamp ballast is equal to 30 % compared to a choke-operated Hg-free standard lamp having the same luminous flux. The use of a microprocessor for controlling the half bridge enables an externally controlled or automatic power reduction with an additional potential of savings in electric energy equal to an annual mean of 35 % and enables an end of life shutdown of the system in order to prevent cycling.

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IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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