

Title (en)

METHOD AND DEVICE FOR CONTROLLING THE POWER OF A HIGH-PRESSURE GAS-DISCHARGE LAMP

Title (de)

VERFAHREN UND ANORDNUNG ZUR LEISTUNGSSTEUERUNG EINER HOCHDRUCK-GASENTLADUNGSLAMPE

Title (fr)

PROCEDE ET DISPOSITIF POUR REGULER LA PUISSANCE D'UNE LAMPE A DECHARGE EN ATMOSPHERE GAZEUSE HAUTE PRESSION

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19535663A1] Proposed is a method of increasing the power of a high-pressure gas-discharge lamp (1) working with a control unit which controls a power-supply circuit in accordance with a characteristic curve (21) to provide essentially constant power. To change the power, the method calls for controlled displacement of the voltage/current characteristic curve, in particular by the manipulation of one or more of the characteristic-curve input parameters. The device for carrying out the method is designed in such a way that the control circuit includes a microcontroller (2) and that displacement of the characteristic curve is carried out under software control, in particular by the addition or subtraction of suitable step values (DELTA U) or continuously variable parameters to the control values (U1, U2) fed to the control element (3). In another embodiment, the method uses an ASIC to displace the characteristic curve under hardware control.

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