

Title (en)

Circuits for controlling the light intensity and the operating mode of discharge lamps

Title (de)

Schaltungsanordnungen zur Steuerung der Helligkeit und des Betriebsverhaltens von Gasentladungslampen

Title (fr)

Circuits pour commander l'intensité lumineuse et le mode de fonctionnement de lampes à décharge

Publication

**EP 0689373 A3 19970507 (DE)**

Application

**EP 95114483 A 19911209**

Priority

- DE 4039161 A 19901207
- EP 91121150 A 19911209

Abstract (en)

[origin: EP0490330A1] The invention relates in general to an electronic ballast (EVG) for fluorescent lamps. In particular, it relates to circuit arrangements inside the electronic ballast for separately measuring lamp current and heater coil current of lamp. Such an electronic ballast comprises an AC voltage generator (30, WR), whose frequency can be controlled, a series resonant circuit (L2, C17), which is connected to the output of the AC voltage generator (30) and to whose capacitor (C17) the gas discharge lamp is connected in parallel, and a current measuring element (R32) responding to the lamp current (IL1), at least one heating circuit of the heater coils of the gas discharge lamp being connected independently of the series resonant circuit (L2, C17) to the AC voltage generator (30), and a further current measuring element (R10) connected to said heating circuit serving to measure the heating current (JW). <IMAGE>

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IPC 8 full level

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Citation (search report)

- [A] EP 0208083 A2 19870114 - TRILUX LENZE GMBH & CO KG [DE]
- [A] EP 0244777 A2 19871111 - GEN ELECTRIC [US]
- [AP] NL 8902811 A 19910603 - ARKALITE B V

Cited by

EP2088837A1; US6094016A; EP1945008A1; EP0903968A1; EP1294216A3; EP0903966A1; WO2008055366A1; WO9839951A1; WO0235675A1; US7619539B2; US8111008B2; US7161313B2; US7369060B2; US6747418B2; US7880638B2; US8035529B2; US8125315B2

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DOCDB simple family (application)

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