

Title (en)
Control circuit for gasdischarge lamps.

Title (de)
Schaltungsanordnung zur Steuerung von Gasentladungslampen.

Title (fr)
Circuit de commande de lampes à décharge.

Publication
EP 0490330 B1 19950830 (DE)

Application
EP 91121151 A 19911209

Priority
DE 4039161 A 19901207

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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Cited by
DE19501695B4; DE10127135B4; US6069455A; EP0769889A1; BE1009717A3; EP1901591A1; US5691604A; EP0589081A1; US5504399A; EP0722263A1; EP0658071A1; BE1007869A3; EP0617567A1; US10154563B2; US6236168B1; WO2008116496A1; WO2016041567A1; WO9953731A1

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