

Title (en)

METHOD OF OPERATING AT LEAST ONE FLUORESCENT LAMP WITH ELECTRONIC BALLAST, AND BALLAST THEREFOR

Title (de)

VERFAHREN ZUM BETREIBEN MINDESTENS EINER LEUCHTSTOFFLAMPE MIT EINEM ELEKTRONISCHEN VORSCHALTGERÄT SOWIE VORSCHALTGERÄT DAFÜR

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER AU MOINS UNE LAMPE A FLUORESCENCE AU MOYEN D'UN BALLAST ELECTRONIQUE ET BALLAST ELECTRONIQUE UTILISE A CET EFFET

Publication

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Application

EP 95925814 A 19950703

Priority

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Abstract (en)

[origin: WO9603017A1] The invention concerns a method of operating at least one fluorescent lamp (FL) by means of electronic ballast and the ballast itself. A rectifier bridge (GL) at a.c. supply voltage (L, N), a connected high-value regulator (L1, D1, V1), a half-bridge circuit (V2, V3) and a control and regulating circuit (IC) are provided for continuously monitoring the lamp current with a regulated control circuit (CCO, SEL, HSD, LSD) for the power transistors (V2, V3) which maintains the bulb current constant during normal operation. As a master control system, a time-value emitting device (PST, IT, CT), which is activated in a specific manner whenever the lamp is activated or a fault is detected, generates a time base for a monitoring circuit (MON) which evaluates the lamp current at any particular moment at predetermined reference levels (Mp, Mi and Mo) which differ in individual time sections (DELTA pt, DELTA it, DELTA st, DELTA ot) and which, via the regulated control circuit (CCO, IST, SEL, HSD, LSD), controls the lamp current as a function of time if the lamp starts normally and triggers automatic switching-off of the electronic ballast in the event of a fault.

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IPC 8 full level

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