

Title (en)

ELECTRONIC BALLAST FOR AT LEAST ONE LOW-PRESSURE DISCHARGE LAMP

Title (de)

ELEKTRONISCHES VORSCHALTGERÄT FÜR MINDESTENS EINE NIEDERDRUCK-ENTLADUNGSLAMPE

Title (fr)

BALLAST ELECTRONIQUE DESTINE A AU MOINS UNE LAMPE A DECHARGE BASSE TENSION

Publication

**EP 1103166 B1 20030716 (DE)**

Application

**EP 00927002 A 20000419**

Priority

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- EP 0003572 W 20000419

Abstract (en)

[origin: WO0072642A1] The invention relates to an electronic ballast for at least one low-pressure discharge lamp. Said ballast contains an inverter, which is connected to a source of direct voltage (U>BUS<), a load circuit, which is connected to said inverter and which contains the lamp (LA) and a serial resonant circuit, and an evaluation circuit (M1), which reacts to different operating modes of the lamp (LA) and in the event of a defect or if the lamp (LA) is removed, produces corresponding signals, which are used to switch off the inverter. A filament transformer is provided for heating the filament (W1, W2). The primary winding (Tp) of said filament transformer is connected in series to a switch (S3) at the output of the inverter and then to the direct voltage source (U>BUS<) whenever the inverter is switched off because of a heating filament defect or because the lamp (LA) has been removed, the switch (S3) being clocked in this switching off phase.

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**H05B 41/298**

IPC 8 full level

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**WO 0072642 A1 20001130**; AT E245337 T1 20030815; AU 4553500 A 20001212; AU 761360 B2 20030605; BR 0007013 A 20010703; EP 1103166 A1 20010530; EP 1103166 B1 20030716; US 2001007410 A1 20010712; US 6433490 B2 20020813

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