

Title (en)

Electronic ballast with fuzzy-logic for gas-discharge lamps

Title (de)

Elektronisches Vorschaltgerät für Gasentladungslampen mit unscharfer Logik

Title (fr)

Ballast électronique à logique floue pour lampes à décharge

Publication

EP 0702508 B1 20000202 (DE)

Application

EP 95114572 A 19950915

Priority

- DE 4433085 A 19940916
- DE 4443784 A 19941208

Abstract (en)

[origin: EP0702508A1] The electronic bias circuit has a rectifier (2) for rectifying the supply voltage, coupled to a current converter (3), in turn coupled to a load circuit (4) for supplying at least one gas discharge lamp (5). The brightness of the lamp is controlled via a regulation device (6, 7) with a fuzzy regulator (7), providing an outlet signal determining the setting value of at least one physical operating parameter of the current converter or the load circuit, in dependence on at least one input signal. Pref. the fuzzy regulator is supplied with a difference value obtained by comparing the actual operating current of the lamp with the required lamp operating current and is used for regulating the pulse ratio or frequency of the lamp current.

IPC 1-7

H05B 41/36; **H05B 41/392**; **H05B 37/02**

IPC 8 full level

H05B 41/36 (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP US)

H05B 41/36 (2013.01 - EP US); **H05B 41/392** (2013.01 - EP US); **Y10S 315/04** (2013.01 - EP US); **Y10S 315/07** (2013.01 - EP US); **Y10S 706/90** (2013.01 - US)

Cited by

WO2008101836A1; US6525479B1; DE19850441A1; DE102008016753A1; EP0833548A4; DE102010042887A1; DE102008019158B3; US6160361A; DE102008031409A1; WO03022015A1; WO2015158921A1; DE102008047440A1; US6577076B2; US6268799B1; US6690282B2; US7006004B2; US8344649B2

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DOCDB simple family (publication)

EP 0702508 A1 19960320; **EP 0702508 B1 20000202**; AT E189573 T1 20000215; ES 2144081 T3 20000601; FI 111792 B 20030915; FI 954289 A0 19950913; FI 954289 A 19960317; US 5600211 A 19970204

DOCDB simple family (application)

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