

Title (en)

BALLAST AND CONTROL UNIT FOR ELECTRIC DISCHARGE LAMP.

Title (de)

BALLAST UND REGELUNGSEINHEIT FÜR ELEKTRISCHE ENTLADUNGSBIRNE.

Title (fr)

UNITE DE CHARGE ET DE COMMANDE POUR UNE LAMPE A DECHARGE ELECTRIQUE.

Publication

EP 0176563 A4 19860512 (EN)

Application

EP 85901833 A 19850328

Priority

- US 59445884 A 19840328
- US 68818885 A 19850102

Abstract (en)

[origin: WO8504545A1] The unit has an input unit for connecting to a power source (11), and a phase differential control unit (16) for controlling the power factor at the input and for maintaining a desired relationship between the output voltage and current. The unit further includes a heater control unit (17) for providing heater voltage when starting the lamps (12) and for disconnecting the heater voltage when the lamps are on. A lamp starting unit (18) is provided to alternatively apply full voltage across a single lamp and then apply full voltage across all lamps in series until all lamps are on. Finally, a disconnected lamp sensor and current limiter unit (19) is provided to detect when one or more lamps are electrically disconnected and to respond by limiting the current that may pass through the output unit (14) to thereby protect persons working with the unit.

IPC 1-7

H05B 37/00; **H05B 37/02**; **H05B 39/04**; **H05B 41/36**; **G05F 1/00**

IPC 8 full level

H05B 41/04 (2006.01); **H05B 41/292** (2006.01); **H05B 41/38** (2006.01)

CPC (source: EP)

H05B 41/046 (2013.01); **H05B 41/2925** (2013.01); **H05B 41/382** (2013.01); **Y02B 20/00** (2013.01)

Citation (search report)

- No relevant documents have been disclosed
- See references of WO 8504545A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8504545 A1 19851010; AU 4214285 A 19851101; EP 0176563 A1 19860409; EP 0176563 A4 19860512

DOCDB simple family (application)

US 8500514 W 19850328; AU 4214285 A 19850328; EP 85901833 A 19850328