

Title (en)

Electronic mains connection device for a gas-discharge lamp.

Title (de)

Elektronische Vorrichtung zum Anschliessen einer Gasentladungslampe an das Stromnetz.

Title (fr)

Appareil électronique pour connecter une lampe à décharge au réseau.

Publication

EP 0066754 A1 19821215 (EN)

Application

EP 82104449 A 19820521

Priority

FI 811774 A 19810608

Abstract (en)

An electronic mains connection device for a gas-discharge lamp, acting as a stabilizing current limiting element and comprising an inverter circuit which from rectified mains current or from some other direct current converts the service voltage for a lamp to such a high frequency that the impedance of a discharge lamp is like normal resistance. A problem is to provide a stable current limitation without current limiting impedances, whereby the limitation of a current can be arranged to be effected only by means of the lamp's own resistance-like impedance on both half-cycles. For this end, the limitation of a current is effected during a period longer than a cycle of inverter operation by means of a feed-back control (7, 8) of the lamp current controlling the opening times and/or operating frequency of the switches (3, 5) of said inverter circuit.

IPC 1-7

H05B 41/29

IPC 8 full level

H05B 41/392 (2006.01); **H05B 41/24** (2006.01); **H05B 41/292** (2006.01)

CPC (source: EP)

H05B 41/2926 (2013.01)

Citation (applicant)

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- US 3906302 A 19750916 - WIJSBOOM DAN BERNARDUS
- US 4168453 A 19790918 - GERHARD FRANCIS H, et al

Citation (search report)

- [X] US 3999100 A 19761221 - DENDY KING HUBERT, et al
- [X] FR 2451696 A1 19801010 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

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EP 82104449 A 19820521; AU 8462182 A 19820607; BR 8203443 A 19820607; DE 3268249 T 19820521; FI 811774 A 19810608; JP 9748182 A 19820607