

Title (en)

Circuit and method for starting and operating discharge lamps

Title (de)

Schaltungsanordnung und Verfahren zum Start und Betrieb von Entladungslampen

Title (fr)

Circuit et méthode d'allumage et de commande du fonctionnement des lampes à décharges

Publication

EP 1443807 A3 20051026 (DE)

Application

EP 03029436 A 20031219

Priority

DE 10303276 A 20030128

Abstract (en)

[origin: EP1443807A2] The gas discharge lamps [LP1,LP2] are supplied by a system with a rectifier [D1-4] having an output coupled to an electronic pumping circuit [UN1,D7,D8] and a capacitor [C31]. An AC inverter [INV] connects with a resonator circuit [L3,C6,C7] having a regulator [CONT]. This operates to limit values from a switch.

IPC 1-7

H05B 41/295

IPC 8 full level

H05B 41/282 (2006.01); **H05B 41/28** (2006.01); **H05B 41/295** (2006.01)

CPC (source: EP KR US)

H05B 41/28 (2013.01 - EP US); **H05B 41/282** (2013.01 - KR); **H05B 41/295** (2013.01 - EP US); **Y10S 315/05** (2013.01 - EP US); **Y10S 315/07** (2013.01 - EP US)

Citation (search report)

- [DY] EP 0621743 A1 19941026 - KONINKL PHILIPS ELECTRONICS NV [NL]
- [Y] US 5747942 A 19980505 - RANGANATH KRISHNAPPA [US]
- [Y] US 5563477 A 19961008 - RIBARICH THOMAS [CH], et al
- [Y] US 6144169 A 20001107 - JANCZAK JERZY [US]
- [Y] US 5742134 A 19980421 - WACYK IHOR T [US], et al
- [A] EP 1049361 A2 20001102 - MITSUBISHI ELECTRIC CORP [JP], et al

Cited by

EP1601237A3; EP1635620A1; US7193375B2; EP1601237A2; WO2013113836A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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