

Title (en)

Electronic ballast system with a micro-controller for use with high intensity discharge lamps

Title (de)

Elektronisches Vorschaltssystem mit einem Mikrocontroller zur Verwendung mit Entladungslampen hoher Intensität

Title (fr)

Système de ballast électronique avec micro-contrôleur pour lampes à décharge à haute intensité

Publication

EP 1545166 A1 20050622 (EN)

Application

EP 03380297 A 20031218

Priority

EP 03380297 A 20031218

Abstract (en)

Electronic Ballast system for high intensity gas discharge lamps (HID lamps) formed by a power factor correction circuit, a Buck - type regulator source, a DC-AC converter with an operating frequency equal to 150 Hz, an electronic igniter circuit, a power control circuit and a microprocessor integrated circuit which comprises means for sensing voltage and current, means for controlling output power to the ballast, means for controlling triggering of the igniter and means for communicating in series with peripheral circuits. The power control circuit and the microprocessor allow the use of the same ballast system with different lamp wattages. <IMAGE>

IPC 1-7

H05B 41/292; **H05B 41/288**

IPC 8 full level

H05B 41/288 (2006.01); **H05B 41/292** (2006.01)

CPC (source: EP)

H05B 41/2882 (2013.01); **H05B 41/2925** (2013.01)

Citation (search report)

- [XY] EP 1322141 A1 20030625 - IWASAKI ELECTRIC CO LTD [JP]
- [Y] US 6072283 A 20000606 - HEDREI GEORGE C [CA], et al
- [A] US 2002145393 A1 20021010 - HUI SHU YUEN RON [HK], et al
- [A] EP 1227706 A2 20020731 - UNIV CITY HONG KONG [CN]
- [A] US 6437515 B1 20020820 - KAMOI TAKESHI [JP], et al
- [A] WO 03061352 A1 20030724 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

Cited by

CN104902662A; WO2007042517A3; WO2012007779A1

Designated contracting state (EPC)

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