

Title (en)

Electronic ballast with asymmetrical inverter actuation

Title (de)

Elektronisches Vorschaltgerät mit asymmetrischer Wechselrichter-Ansteuerung

Title (fr)

Ballast électronique doté d'une commande à onduleur asymétrique

Publication

EP 1901592 B1 20101215 (DE)

Application

EP 07113990 A 20070808

Priority

DE 102006043155 A 20060914

Abstract (en)

[origin: EP1901592A1] The method involves adjusting power input of an electric discharge lamp (LA) by presetting duty cycles of two digital control signals. Semiconductor circuit breakers of a direct current to alternating current (DC/AC) converter are controlled by the control signals, where the DC/AC converter supplies a discharge lamp with AC. The circuit breakers are connected to half-bridges in series, and the duty cycles of the control signals are time variantly adjustable. An independent claim is also included for an electronic ballast comprising a converter.

IPC 8 full level

H05B 41/392 (2006.01); **H05B 41/282** (2006.01)

CPC (source: EP)

H05B 41/2988 (2013.01); **H05B 41/3927** (2013.01)

Citation (examination)

GUAN-CHYUN HSIEH ET AL: "Group-asymmetrical PWM controller for dimmable fluorescent lamp ballast without striation and thermostat effect", INDUSTRIAL ELECTRONICS SOCIETY, 2005. IECON 2005. 31ST ANNUAL CONFERENCE OF IEEE, IEEE, PISCATAWAY, NJ, USA LNKD-DOI:10.1109/IECON.2005.1569005, 6 November 2005 (2005-11-06), pages 792 - 797, XP010876042, ISBN: 978-0-7803-9252-6

Cited by

WO2012083323A2; DE102010063989A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1901592 A1 20080319; **EP 1901592 B1 20101215**; AT E492143 T1 20110115; CN 101146392 A 20080319; CN 101146392 B 20120328; DE 102006043155 A1 20080327; DE 502007005932 D1 20110127

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