

Title (en)

Electronic ballast with a full-bridge circuit

Title (de)

Elektronisches Vorschaltgerät mit Vollbrückenschaltung

Title (fr)

Ballast électronique avec un circuit en pont complet

Publication

EP 1465465 A3 20041013 (DE)

Application

EP 04013891 A 20010911

Priority

- DE 10051139 A 20001016
- EP 01974243 A 20010911

Abstract (en)

[origin: US2004004447A1] An electronic ballast for controlling the operating behavior and brightness of a gas discharge lamp, includes a full bridge circuit fed with a d.c. voltage (UBUS). The gas discharge lamp is connected as a load of the full bridge circuit, and a control circuit in each case switches on one bridge diagonal and switches off another bridge diagonal of the full bridge circuit, alternately. The bridge diagonals each have a regulatable constant current source for regulating a lamp current, and thereby the occurrence of flickering appearances is suppressed. As a result, the lamp can be dimmed over a very wide range of brightnesses.

IPC 1-7

H05B 41/392

IPC 8 full level

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

CPC (source: EP US)

H05B 41/2828 (2013.01 - EP US); **H05B 41/3921** (2013.01 - EP US); **H05B 41/3927** (2013.01 - EP US)

Citation (search report)

- [A] US 4346332 A 19820824 - WALDEN JOHN P
- [A] EP 0473157 A2 19920304 - TOSHIBA LIGHTING & TECHNOLOGY [JP]
- [A] EP 0633711 A1 19950111 - TOTO LTD [JP]
- [A] DE 19523750 A1 19970102 - THOMSON BRANDT GMBH [DE]
- [A] DE 4238388 A1 19940519 - HEIDELBERGER DRUCKMASCH AG [DE]
- [A] WOOD P N: "HIGH FREQUENCY DISCHARGE LAMP BALLASTS USING POWER MOSFETS, IGBT'S AND HIGH VOLTAGE MONOLYTHIC DRIVERS", PCI PROCEEDINGS, June 1989 (1989-06-01), pages 307 - 324, XP000775812

Cited by

RU2482639C2; EP2223572A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2004004447 A1 20040108; **US 6876158 B2 20050405**; AT E291341 T1 20050415; AT E419735 T1 20090115; AU 2001293807 B2 20060216; AU 9380701 A 20020429; BR 0114678 A 20031007; DE 10051139 A1 20020425; DE 50105645 D1 20050421; DE 50114634 D1 20090212; EP 1330945 A1 20030730; EP 1330945 B1 20050316; EP 1465465 A2 20041006; EP 1465465 A3 20041013; EP 1465465 B1 20081231; WO 0234015 A1 20020425; ZA 200302354 B 20040326

DOCDB simple family (application)

US 41431903 A 20030416; AT 01974243 T 20010911; AT 04013891 T 20010911; AU 2001293807 A 20010911; AU 9380701 A 20010911; BR 0114678 A 20010911; DE 10051139 A 20001016; DE 50105645 T 20010911; DE 50114634 T 20010911; EP 0110497 W 20010911; EP 01974243 A 20010911; EP 04013891 A 20010911; ZA 200302354 A 20010911