

Title (en)
ELECTRONIC BALLAST COMPRISING A FULL BRIDGE CIRCUIT

Title (de)
ELEKTRONISCHES VORSCHALTGERÄT MIT VOLLBRÜCKENSCHALTUNG

Title (fr)
BALLAST ELECTRONIQUE AVEC CIRCUIT EN PONT INTEGRAL

Publication
EP 1330945 B1 20050316 (DE)

Application
EP 01974243 A 20010911

Priority
• DE 10051139 A 20001016
• EP 0110497 W 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)

Cited by
DE102007049397A1; DE202008013673U1

Designated contracting state (EPC)
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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

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