

Title (en)

BALLAST FOR AT LEAST ONE GAS DISCHARGE LAMP AND METHOD FOR OPERATING SUCH A BALLAST

Title (de)

VORSCHALTGERÄT FÜR MINDESTENS EINE GASENTLADUNGSLAMPE UND VERFAHREN ZUM BETREIBEN EINES DERARTIGEN VORSCHALTGERÄTS

Title (fr)

BALLAST POUR AU MOINS UNE LAMPE A DECHARGE, ET PROCEDE POUR FAIRE FONCTIONNER UNE TEL BALLAST

Publication

EP 1095543 A1 20010502 (DE)

Application

EP 00941880 A 20000419

Priority

- DE 0001226 W 20000419
- DE 19922039 A 19990512

Abstract (en)

[origin: US6316888B1] A ballast for a gas discharge lamp having an inverter. A DC voltage source feeds the ballast. A bridge circuit is arranged in parallel with the DC voltage source. The bridge circuit has first and second controllable switches. The midpoint of the bridge is connected to a load circuit having the gas discharge lamp. The gas discharge lamp has first and second electrodes. A control circuit controls the pulse duty factor of the first and second switches. The pulse duty factor is not equal to 50%. The control circuit controls the pulse duty factor such that the first and second electrodes are subjected to essentially the same thermal load on average.

IPC 1-7

H05B 41/298

IPC 8 full level

H05B 41/24 (2006.01); **H05B 41/282** (2006.01); **H05B 41/298** (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP KR US)

H05B 41/2828 (2013.01 - EP US); **H05B 41/295** (2013.01 - KR); **H05B 41/2988** (2013.01 - EP US); **H05B 41/3927** (2013.01 - EP US); **Y10S 315/04** (2013.01 - EP US); **Y10S 315/07** (2013.01 - EP US)

Citation (search report)

See references of WO 0070921A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

US 6316888 B1 20011113; AT E254385 T1 20031115; CA 2337062 A1 20001123; CN 1242653 C 20060215; CN 1304631 A 20010718; DE 19922039 A1 20001116; DE 50004415 D1 20031218; EP 1095543 A1 20010502; EP 1095543 B1 20031112; JP 2003500808 A 20030107; KR 20010071870 A 20010731; TW 494706 B 20020711; WO 0070921 A1 20001123

DOCDB simple family (application)

US 72005500 A 20001220; AT 00941880 T 20000419; CA 2337062 A 20000419; CN 00800844 A 20000419; DE 0001226 W 20000419; DE 19922039 A 19990512; DE 50004415 T 20000419; EP 00941880 A 20000419; JP 2000619246 A 20000419; KR 20017000512 A 20010112; TW 89107979 A 20000427