

Title (en)
ELECTRONIC BALLAST FOR AT LEAST ONE LOW-PRESSURE DISCHARGE LAMP

Title (de)
ELEKTRONISCHES VORSCHALTGERÄT FÜR MINDESTENS EINE NIEDERDRUCK-ENTLADUNGSLAMPE

Title (fr)
BALLAST ELECTRONIQUE DESTINE A AU MOINS UNE LAMPE A DECHARGE BASSE TENSION

Publication
EP 1103165 B1 20030716 (DE)

Application
EP 00927003 A 20000419

Priority
• DE 19923945 A 19990525
• EP 0003573 W 20000419

Abstract (en)
[origin: WO0072640A1] An electronic ballast for a low-pressure discharge lamp (LA) contains an inverter, which is supplied with direct voltage (UBUS) and whose output is connected to a load circuit containing connecting contacts for the lamp (LA). Said ballast also contains a filament transformer, which has a primary winding (Tp) that is connected to the output of the inverter, and a secondary winding (Ts1, Ts2) for heating each of two electrodes of the lamp (LA) respectively, said secondary winding being located in a heating circuit with a filament (W1, W2). Finally, the ballast has a series circuit that lies parallel to the load circuit. Said series circuit contains the primary winding (Tp) of the filament transformer and an electronic switching device (S3, S4). The currents are measured and evaluated in one of the two heating circuits and in the primary winding (Tp) of the filament transformer in order to determine the lamp type and the lamp mode.

IPC 1-7
H05B 41/295; **H05B 41/298**

IPC 8 full level
H05B 41/295 (2006.01); **H05B 41/298** (2006.01)

CPC (source: EP US)
H05B 41/295 (2013.01 - EP US); **H05B 41/2985** (2013.01 - EP US); **Y10S 315/07** (2013.01 - EP US)

Cited by
CN102027809A; DE102008012452A1; DE102007047142A1; DE102008022198A1; DE102008012454A1; WO2009109325A1;
DE102008012453A1; EP2355626A2

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)
WO 0072640 A1 20001130; AT E245336 T1 20030815; AU 4553600 A 20001212; AU 761194 B2 20030529; BR 0006149 A 20010417;
DE 19923945 A1 20001228; DE 50002900 D1 20030821; EP 1103165 A1 20010530; EP 1103165 B1 20030716; NZ 509309 A 20020828;
US 2001002780 A1 20010607; US 6366031 B2 20020402

DOCDB simple family (application)
EP 0003573 W 20000419; AT 00927003 T 20000419; AU 4553600 A 20000419; BR 0006149 A 20000419; DE 19923945 A 19990525;
DE 50002900 T 20000419; EP 00927003 A 20000419; NZ 50930900 A 20000419; US 76786801 A 20010124