

Title (en)
ELECTRONIC BALLAST

Title (de)
ELEKTRONISCHES VORSCHALTGERÄT

Title (fr)
BALLAST ELECTRONIQUE

Publication
EP 1590993 B1 20090527 (DE)

Application
EP 04707218 A 20040202

Priority
• EP 2004000921 W 20040202
• DE 10304544 A 20030204

Abstract (en)
[origin: WO2004071135A1] The invention relates to a connection device for low-pressure discharge lamps, comprising a controllable rectifier circuit for the production of a high-frequency supply voltage for a discharge lamp (1), a lamp inductance (L1) connected to the rectifier circuit, a lamp parallel capacitor (C1) which is serially connected to the lamp inductance (L1) and which is connected in parallel to the discharge lamp (1), and a pre-heating circuit for supplying a heating current to the electrodes (2, 3) of the discharge lamp (1). In order to minimize electrical losses and to enable universal use of said connection device for various types of discharge lamps, the pre-heating circuit is supplied with current by an auxiliary winding (7) placed on the lamp inductance (L1). The auxiliary winding (7) is connected to the pre-heating circuit by means of a controllable switch or a parallel resonance circuit (9).

IPC 8 full level
H05B 41/295 (2006.01); **H05B 41/282** (2006.01); **H05B 41/298** (2006.01)

CPC (source: EP US)
H05B 41/295 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004071135 A1 20040819; AT E432606 T1 20090615; CN 1748447 A 20060315; CN 1748447 B 20100616; DE 10304544 A1 20040819; DE 10304544 B4 20061012; DE 502004009526 D1 20090709; EP 1590993 A1 20051102; EP 1590993 B1 20090527; US 2006103327 A1 20060518; US 7279844 B2 20071009

DOCDB simple family (application)
EP 2004000921 W 20040202; AT 04707218 T 20040202; CN 200480003500 A 20040202; DE 10304544 A 20030204; DE 502004009526 T 20040202; EP 04707218 A 20040202; US 54451805 A 20051102