

Title (en)
BALLAST COMPRISING SWITCHED INDUCTANCE

Title (de)
VORSCHALTGERÄT MIT GESCHALTETER INDUKTIVITÄT

Title (fr)
BALLAST A BOBINE D'INDUCTION COMMUTEE

Publication
EP 1483944 A1 20041208 (DE)

Application
EP 03714694 A 20030306

Priority
• DE 0300785 W 20030306
• DE 10210804 A 20020312

Abstract (en)
[origin: WO03077611A1] The invention relates to ballast for a discharge lamp (16) comprising a direct-current supply phase (2), high-frequency timed semiconductor switches (10, 11) for modifying the direction of current through the discharge lamp (16), a choke inductance (17) connected in series to the discharge lamp (16) and discharge circuits (19, 20) for the semiconductor switches (10, 11), each of which consists of a capacitor (19) connected in parallel to said semiconductor switches (10, 11) and a current converter (20) connected in anti-parallel. The aim of the invention is to guarantee an effective discharge of the semiconductor switches (10, 11), even during a no-load operation. To achieve this, a series connection of an auxiliary inductance (21) and a switch (22) that is operated depending on the voltage of the discharge lamp (16) is connected in parallel to said discharge lamp (16).

IPC 1-7
H05B 41/00

IPC 8 full level
H05B 41/292 (2006.01)

CPC (source: EP)
H05B 41/2925 (2013.01)

Citation (search report)
See references of WO 03077611A1

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 03077611 A1 20030918; AU 2003218949 A1 20030922; DE 10210804 A1 20031009; DE 10210804 B4 20040527;
DE 50304223 D1 20060824; EP 1483944 A1 20041208; EP 1483944 B1 20060712

DOCDB simple family (application)
DE 0300785 W 20030306; AU 2003218949 A 20030306; DE 10210804 A 20020312; DE 50304223 T 20030306; EP 03714694 A 20030306