

Title (en)

Circuit for operating low pressure discharge lamps with a low voltage source

Title (de)

Schaltungsanordnung zum Betrieb einer Niederdruckentladungslampe an einer Niedervolt-Spannungsquelle

Title (fr)

Circuit pour alimenter une lampe à décharge basse pression par une source à basse tension

Publication

**EP 0845927 B1 20021127 (DE)**

Application

**EP 97115534 A 19970908**

Priority

DE 19649170 A 19961127

Abstract (en)

[origin: EP0845927A2] A circuit arrangement to drive a low pressure discharge lamp from a low voltage source is designed as a single-ended blocking oscillator possessing a transistor and a transformer. The primary winding is in series with the switching path of the transistor. There are two secondary windings, one serving to trigger the transistor's control electrode. One terminal of the primary is connected to one terminal of the same secondary winding. The other primary terminal is connected via a lamp electrode subject to a preheat voltage and via a diode to the other terminal of the secondary. Two other arrangements with different connections of the primary and secondaries are given.

IPC 1-7

**H05B 41/292**; H02M 3/338

IPC 8 full level

**H02M 3/338** (2006.01); **H05B 41/24** (2006.01); **H05B 41/292** (2006.01); **H05B 41/295** (2006.01)

CPC (source: EP)

**H05B 41/295** (2013.01)

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

**DE 19649170 A1 19980528**; CN 1172562 C 20041020; CN 1192118 A 19980902; DE 59708816 D1 20030109; EP 0845927 A2 19980603; EP 0845927 A3 19990630; EP 0845927 B1 20021127; HK 1015113 A1 19991008; JP H10162974 A 19980619

DOCDB simple family (application)

**DE 19649170 A 19961127**; CN 97122654 A 19971126; DE 59708816 T 19970908; EP 97115534 A 19970908; HK 99100022 A 19990106; JP 33771597 A 19971121