

Title (en)

CIRCUIT FOR OPERATING ONE OR MORE LOW-PRESSURE DISCHARGE LAMPS

Title (de)

SCHALTUNGSANORDNUNG ZUM BETRIEB EINER ODER MEHRERER NIEDERDRUCKENTLADUNGSLAMPEN

Title (fr)

CIRCUIT POUR ACTIONNER UNE OU PLUSIEURS LAMPE(S) A DECHARGE A BASSE PRESSION

Publication

**EP 0616752 B1 19980520 (DE)**

Application

**EP 92924561 A 19921209**

Priority

- DE 4140557 A 19911209
- DE 9201026 W 19921209

Abstract (en)

[origin: WO9312631A1] The invention relates to a circuit for operating one or more low-pressure discharge lamps. For each lamp (LP) there is a heating circuit consisting of the electrodes (E1, E2) of the lamp (LP) and a relay contact (K). During the preheating stage, the switch (S), preferably taking the form of a threshold switch, detects the rectified, smoothed voltage of the electrode coils (E1, E2) and, if the electrodes (E1, E2) have preheated sufficiently, opens the relay contact (K) via the relay coil (RL). In another preferred embodiment, the relay is replaced by a field effect transistor which is switched off at the end of the preheating stage by an electronic switch which assesses the voltage drop across the electrode coil (E1). The circuit arrangement of the invention permits the best possible preheating of the lamp electrodes in an economical manner.

IPC 1-7

**H05B 41/29**

IPC 8 full level

**H05B 41/24** (2006.01); **H05B 41/295** (2006.01)

CPC (source: EP US)

**H05B 41/295** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**WO 9312631 A1 19930624**; DE 4140557 A1 19930617; DE 59209340 D1 19980625; EP 0616752 A1 19940928; EP 0616752 B1 19980520; JP H07501653 A 19950216; US 5583399 A 19961210

DOCDB simple family (application)

**DE 9201026 W 19921209**; DE 4140557 A 19911209; DE 59209340 T 19921209; EP 92924561 A 19921209; JP 51051093 A 19921209; US 50834195 A 19950727