

Title (en)  
Device for operating discharge lamps

Title (de)  
Vorrichtung zum Betreiben von Entladungslampen

Title (fr)  
Appareil pour alimenter des lampes à décharge

Publication  
**EP 1424880 A3 20080319 (DE)**

Application  
**EP 03022972 A 20031009**

Priority  
DE 10252836 A 20021113

Abstract (en)  
[origin: US2004090193A1] A device for operating a plurality of discharge lamps (71, 72) is to be fashioned cost effectively. Two lamps (71, 72) are therefore operated in a single load circuit. In the preheating phase, the incandescent filaments (711, 712, 721, 722) are supplied with preheating current either directly or via a transformer (Ls, Lp). The preheating current is controlled via a temperature-dependent resistor (PTC) in such a way that the continuous heating current is greatly reduced over all the filaments during the operation of the lamp.

IPC 8 full level  
**H05B 41/18** (2006.01); **H05B 41/295** (2006.01)

CPC (source: EP KR US)  
**H05B 41/18** (2013.01 - KR); **H05B 41/295** (2013.01 - EP US)

Citation (search report)

- [X] EP 0693864 A2 19960124 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [X] JP S5410587 A 19790126 - NIPPON ELECTRIC CO
- [X] JP S55151790 A 19801126 - NIPPON ELECTRIC CO
- [XA] DE 3046617 A1 19810903 - PHILIPS NV [NL]
- [XA] EP 0378992 A1 19900725 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] EP 0798952 A1 19971001 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

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

Designated extension state (EPC)  
AL LT LV MK

DOCDB simple family (publication)  
**US 2004090193 A1 20040513; US 6806657 B2 20041019;** CA 2448791 A1 20040513; CN 1505452 A 20040616; DE 10252836 A1 20040527; EP 1424880 A2 20040602; EP 1424880 A3 20080319; KR 20040042849 A 20040520

DOCDB simple family (application)  
**US 69578203 A 20031030;** CA 2448791 A 20031110; CN 200310118177 A 20031113; DE 10252836 A 20021113; EP 03022972 A 20031009; KR 20030079847 A 20031112