

Title (en)
ELECTRODELESS FLUORESCENT LAMP AND ITS OPERATING DEVICE

Title (de)
ELEKTRODENLOSE FLUORESZENZLAMPE UND BETRIEBSEINRICHTUNG DAFÜR

Title (fr)
LAMPE FLUORESCENTE SANS ELECTRODE ET SON DISPOSITIF D'ACTIONNEMENT

Publication
EP 1705691 B1 20130501 (EN)

Application
EP 05726203 A 20050105

Priority
• JP 2005000014 W 20050105
• JP 2004000557 A 20040105

Abstract (en)
[origin: EP1705691A1] In an electrodeless fluorescent lamp, even when it is lighted in a state that a temperature in a bulb is not increased sufficiently such as in use in a cool-temperature environment or in dimming lighting, deterioration of light output of the electrodeless fluorescent lamp due to insufficiency of mercury on a surface of an amalgam which is to be supplied to a discharge space is prevented. Therefore, a metal container (7) is disposed inside an induction coil (13). A high frequency current on which a current for induction heating is superimposed is applied to the induction coil (13) so that the metal container (7) is heated with induction heating, and thereby, the amalgam therein is heated. The heated amalgam becomes a mixture of liquid-phase and solid-phase, and thus, an amount of mercury enough for supplying it into a discharge space inside the bulb can be maintained on the surface of the amalgam.

IPC 8 full level
F21S 2/00 (2006.01); **H01J 61/28** (2006.01); **H01J 65/04** (2006.01); **H05B 41/24** (2006.01); **F21Y 101/00** (2016.01)

CPC (source: EP)
H01J 61/28 (2013.01); **H01J 65/048** (2013.01)

Cited by
US2014145617A1; US9129792B2; US9129791B2; USD854198S; US8872426B2; WO2014082039A1; US9209008B2; US9460907B2; US8901842B2; US9911589B2; US10141179B2; US10236174B1; US10418233B2; US10529551B2; US8941304B2; US8975829B2; US9245734B2; US10128101B2

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DE NL

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