

Title (en)

Heater with visible light reducing optical film

Title (de)

Heizelement mit optischer Beschichtung zur Reduzierung des sichtbaren Lichts

Title (fr)

Dispositif de chauffage avec film optique pour réduction de la lumière visible

Publication

EP 2924713 A1 20150930 (EN)

Application

EP 14183059 A 20140901

Priority

JP 2014062091 A 20140325

Abstract (en)

A heater (1) includes a bulb (2), a filament (3), gas (4), and a multilayer film (5). The filament (3) is arranged along a tube axis on an inside (2a) of the bulb (2). The gas (4) is filled in the inside (2a) of the bulb (2). The multilayer film (5) is formed on an outer surface (2b) of the bulb (2). Average visible ray transmittance at a wavelength of 380 nm to 780 nm of the multilayer film (5) is equal to or lower than 24%. In the filament (3), a plurality of projecting sections (31a) projecting to an inner wall (2c) of the bulb (2) when viewed from the tube axis direction are formed in a circumferential direction and the tube axis direction.

IPC 8 full level

H01K 1/14 (2006.01); **H01K 1/18** (2006.01); **H01K 1/32** (2006.01); **H05B 3/00** (2006.01); **H05B 3/44** (2006.01)

CPC (source: EP)

H01K 1/14 (2013.01); **H01K 1/18** (2013.01); **H01K 1/325** (2013.01); **H05B 3/0033** (2013.01)

Citation (search report)

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- [Y] WO 2006081802 A2 20060810 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE], et al
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 14183059 A 20140901; JP 2014062091 A 20140325