

Title (en)
GAS DISCHARGE LAMP AND A DEVICE FOR CONTROLLING THE TEMPERATURE THEREOF

Title (de)
GASENTLADUNGSLAMPE SOWIE VORRICHTUNG ZU DEREN TEMPERIERUNG

Title (fr)
LAMPE À DÉCHARGE ET DISPOSITIF THERMORÉGULATEUR

Publication
EP 3298620 B1 20181031 (DE)

Application
EP 16727134 A 20160510

Priority
• DE 102015107694 A 20150518
• EP 2016060386 W 20160510

Abstract (en)
[origin: WO2016184716A1] The invention relates to a device for the regulated temperature control of a gas discharge lamp, and to a gas discharge lamp. The claimed device comprises a transformer core (11) of a transformer (14), said transformer core (11) being designed to receive at least one discharge current-conducting connection line (04; 06) of the gas discharge lamp, as a primary winding (12; 13). The transformer (14) forms an energy source for heating a gas discharge lamp functional region (22) which determines a function of said gas discharge lamp and is formed by an amalgam reservoir (22). The device also comprises a secondary winding (16) on the transformer core (11), and a means for regulating temperature (19) which is used to regulate the energy that heats the amalgam reservoir (22). The means for temperature regulation (19) is electrically connected to the secondary winding (16).

IPC 8 full level
H01J 61/28 (2006.01); **H01J 61/52** (2006.01)

CPC (source: EP RU US)
H01J 61/24 (2013.01 - US); **H01J 61/28** (2013.01 - EP RU US); **H01J 61/523** (2013.01 - EP US); **H01J 61/72** (2013.01 - US)

Cited by
US11771865B2; DE102020203417A1; WO2021185582A1; US11666730B2; US12023452B2

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

DOCDB simple family (publication)
WO 2016184716 A1 20161124; CA 2985397 A1 20161124; CA 2985397 C 20230110; CN 107636798 A 20180126; CN 107636798 B 20190820; DE 102015107694 A1 20161124; DK 3298620 T3 20190128; EP 3298620 A1 20180328; EP 3298620 B1 20181031; RU 2017139938 A 20190618; RU 2017139938 A3 20190905; RU 2736627 C2 20201119; US 10269552 B2 20190423; US 2018144924 A1 20180524

DOCDB simple family (application)
EP 2016060386 W 20160510; CA 2985397 A 20160510; CN 201680028184 A 20160510; DE 102015107694 A 20150518; DK 16727134 T 20160510; EP 16727134 A 20160510; RU 2017139938 A 20160510; US 201615575731 A 20160510