

Title (en)  
GAS-DISCHARGE REFLECTOR LAMP

Title (de)  
GASENTLADUNGS-REFLEKTORLAMPE

Title (fr)  
LAMPE À DÉCHARGE GAZEUSE À RÉFLECTEUR

Publication  
**EP 2034509 A4 20100120 (DE)**

Application  
**EP 06769538 A 20060526**

Priority  
RU 2006000272 W 20060526

Abstract (en)  
[origin: EA008954B1] The proposed invention relates to the electro technical industry, in particular, to improve a design of gas discharge reflecting lamps for use in general and special-purpose illumination. The invention is aimed at reduction the cost price of gas discharge reflecting lamps, and increasing its quality due to the use traditionally round-symmetrical bulbs and obtaining uniform thickness of a glass, keeping high luminous flux of a lamp. The technical result is achieved by using the gas discharge reflecting lamp containing the arc-tube, mounted on wires in a bulb, not less than half of which internal surface is covered with reflecting layer so that the plane extending through its longitudinal edges, is parallel to a longitudinal axis of arc-tube, being at a distance from the bulb symmetry axis constituting 0.04-0.11 the maximal internal diameter of bulb wherein cross-section edges of a reflecting layer are located in places of transition of throat and dome of a bulb into elliptical part; the arc-tube is placed so, that in the cross-section section extending through the center of the bulb ellipsoid, the relation of distance from an axis of arc-tube up to the nearest surface of a reflecting layer to distance from an axis of arc-tube up to edge of the reflecting layer located on longitudinal section, lays within the limits of 0.56-0.68, and at least, one wire is placed between the arc-tube and the reflecting layer in a longitudinal plane of symmetry. The achieved result provides to reduce the cost price of a lamp, to keep high luminous efficiency, allowing to realize profit at a rate of 1 million 200 thousand rubles at the price of lamps 210 rubles / 1 piece and annual manufacture - 200 thousand pcs.

IPC 8 full level  
**H01J 61/02** (2006.01); **H01J 61/34** (2006.01)

CPC (source: EP)  
**H01J 61/025** (2013.01); **H01J 61/34** (2013.01); **H01J 61/35** (2013.01); **H01J 61/825** (2013.01)

Citation (search report)  
• [Y] US 5041755 A 19910820 - PCHELIN VLADIMIR M [SU], et al  
• [Y] DD 226429 A1 19850821 - ILMENAU TECH HOCHSCHULE [DD]  
• [A] JP S5929339 A 19840216 - ETO DENKI KK  
• [A] JP S5912554 A 19840123 - ETO DENKI KK  
• [A] WO 9529500 A1 19951102 - ACMA TECH PTY LTD [SG]  
• See references of WO 2007139420A1

Cited by  
US8232710B2; WO2012067751A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2034509 A1 20090311**; **EP 2034509 A4 20100120**; **EP 2034509 B1 20120229**; AT E547805 T1 20120315; CA 2653468 A1 20071206; CN 101472496 A 20090701; CN 101473407 A 20090701; CN 101473407 B 20101222; EA 008954 B1 20071026; EA 200700650 A1 20071026; WO 2007139420 A1 20071206

DOCDB simple family (application)  
**EP 06769538 A 20060526**; AT 06769538 T 20060526; CA 2653468 A 20060526; CN 200680055109 A 20060626; CN 200680055110 A 20060526; EA 200700650 A 20060526; RU 2006000272 W 20060526