

Title (en)
Light emitter and method for its operation

Title (de)
Leuchtmittel und Betriebsverfahren dafür

Title (fr)
Émetteur de lumière et procédé de fonctionnement

Publication
EP 2618362 A1 20130724 (DE)

Application
EP 13000279 A 20130121

Priority
DE 102012001000 A 20120120

Abstract (en)
The body has a stabilization unit (2) for thermally stabilizing a partial surrounded space i.e. vacuum space, of a discharge space (1), where the partial surrounded space exhibits pressure that is lesser than 1/100 times of standard atmospheric pressure. The partial surrounded space is filled with material. A plasma luminescence unit is energized for performing a microwave coupling with an electrode-free discharge space. The body is made of glasses, quartz glass and/or glass ceramic. The discharge space is formed co-axial to the partial surrounded space.

Abstract (de)
Die Erfindung betrifft einen Körper mit Gasentladungsgefäß, insbesondere Leuchtmittel mit einem zumindest einen Entladungsraum (1) und ein Mittel zur thermischen Stabilisierung aufweisenden Körper, insbesondere Leuchtkörper. Hierbei ist vorgesehen, dass das Mittel zur thermischen Stabilisierung ein vom Entladungsraum (1) zumindest partiell umgebener Raum (2) ist.

IPC 8 full level
H01J 61/12 (2006.01); **H01J 61/32** (2006.01); **H01J 61/33** (2006.01); **H01J 61/52** (2006.01); **H01J 65/04** (2006.01)

CPC (source: EP)
H01J 61/125 (2013.01); **H01J 61/32** (2013.01); **H01J 61/33** (2013.01); **H01J 61/52** (2013.01); **H01J 65/044** (2013.01)

Citation (applicant)
• DE 10335523 B4 20090430 - KOCH BERTHOLD [DE]
• US 4908492 A 19900313 - OKAMOTO YUKIO [JP], et al
• US 5072157 A 19911210 - GREB ULRICH [GB], et al
• US 4049940 A 19770920 - MOISAN MICHEL, et al
• DE 102009022755 A1 20101202 - FACHHOCHSCHULE AACHEN [DE]
• M KANDO; T. FUKAYA; Y. OHISHI; T. MIZOJIRI; Y. MORIMOTO; M. SHIDO; T. SERITA: "Application of an antenna excited high pressure microwave discharge to compact discharge lamps", J. PHYS. D: APPL. PHYS., vol. 41, 2008, pages 10
• TAKAFUMI MIZOJIRI; MITSURU IKEUCHI; YUKIHIRO MORIMOTO; MASASHI KANDO: "Compact Sulfur Lamps Operated by Antenna-Excited Ificrowave Discharge", JAPANESE JOURNAL OF APPLIED PHYSICS, vol. 47, no. 10, 2008, pages 8012 - 8016

Citation (search report)
• [X] KR 20040107335 A 20041220 - ARTLANP INC
• [XI] WO 03047318 A1 20030605 - CONSIGLIO NAZIONALE RICERCHE [IT], et al
• [X] GB 2400975 A 20041027 - JENACT LTD [GB]
• [X] DE 3913519 A1 19901031 - RHEYDT KABELWERK AG [DE]
• [X] JP H06203807 A 19940722 - TOSHIBA LIGHTING & TECHNOLOGY
• [X] JP 2004127538 A 20040422 - HARISON TOSHIBA LIGHTING CORP
• [X] US 2004004422 A1 20040108 - CLAUS HOLGER [US], et al
• [X] US 2011279065 A1 20111117 - HILBIG RAINER [DE], et al
• [A] US 5905342 A 19990518 - MIMASU MUTSUMI [JP], et al
• [A] US 4065701 A 19771227 - HAUGSJAA PAUL O, et al
• [X] EDVARD MIKHAILOVICH BARKHUDAROV ET AL: "Killing bacteria present on surfaces in films or in droplets using microwave UV lamps", WORLD JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, KLUWER ACADEMIC PUBLISHERS, DO, vol. 24, no. 6, 2 September 2007 (2007-09-02), pages 761 - 769, XP019616960, ISSN: 1573-0972

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)
EP 2618362 A1 20130724; EP 2618362 B1 20190911; DE 102012001000 A1 20130725

DOCDB simple family (application)
EP 13000279 A 20130121; DE 102012001000 A 20120120