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(11)

EP 1 414 058 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
15.02.2006 Bulletin 2006/07

(51) Int Cl.:
H01J 65/04^(2006.01) H01J 61/54^(2006.01)

(43) Date of publication A2:
28.04.2004 Bulletin 2004/18

(21) Application number: **03000587.0**

(22) Date of filing: **14.01.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT SE SI SK TR**
Designated Extension States:
AL LT LV MK RO

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(30) Priority: **24.10.2002 KR 2002064349**

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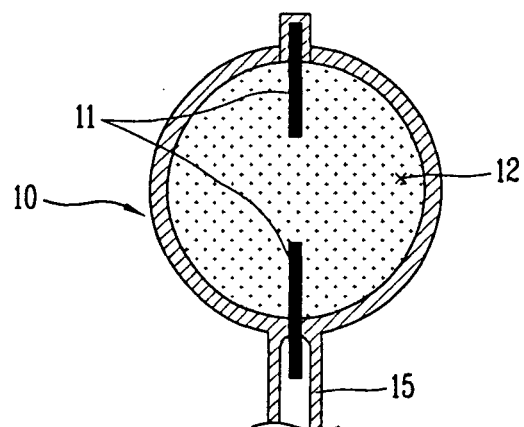
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(54) **Electrodeless lamp system and bulb thereof**

(57) A bulb in an electrodeless lamp system comprises: a bulb unit (10) having an envelope space (12) in which luminous material excited by electric field to form plasma and generate light is filled; and two or more conductors (11) installed in the envelope space (12) so that ends of the conductors (11) face each other.

FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 03 00 0587

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 39 18 839 A1 (GENERAL ELECTRIC CO., SCHENECTADY, N.Y., US) 21 December 1989 (1989-12-21) * column 1, lines 36-55; figure 2 * * column 3, lines 1-6 *	1-7, 15-18	H01J65/04 H01J61/54
Y	* the whole document *	9-14,20	
Y	----- WO 97/27617 A (FUSION LIGHTING, INC; TURNER, BRIAN; URY, MICHAEL) 31 July 1997 (1997-07-31) * pages 1-5; figure 1 *	9,11-14, 20	
Y	----- EP 0 602 746 A (MATSUSHITA ELECTRIC WORKS, LTD) 22 June 1994 (1994-06-22) * figures 1-7,10 *	10	
A	----- US 6 072 268 A (DOLAN ET AL) 6 June 2000 (2000-06-06) * the whole document *	1-20	
A	----- EP 0 458 544 A (GENERAL ELECTRIC COMPANY) 27 November 1991 (1991-11-27) * the whole document *	1-20	TECHNICAL FIELDS SEARCHED (IPC) H01J
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 16 December 2005	Examiner But, G-I
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 00 0587

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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16-12-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3918839	A1	21-12-1989	FR 2633098 A1	22-12-1989
			GB 2221086 A	24-01-1990
			JP 2060048 A	28-02-1990
			NL 8901518 A	16-01-1990

WO 9727617	A	31-07-1997	AU 1077897 A	20-08-1997
			EP 0990261 A1	05-04-2000
			JP 2000504141 T	04-04-2000
			US 5811936 A	22-09-1998

EP 0602746	A	22-06-1994	CN 1089755 A	20-07-1994
			CN 1222751 A	14-07-1999
			DE 69323601 D1	01-04-1999
			DE 69323601 T2	30-09-1999
			DE 69324047 D1	22-04-1999
			DE 69324047 T2	07-10-1999
			US 5519285 A	21-05-1996

US 6072268	A	06-06-2000	NONE	

EP 0458544	A	27-11-1991	AU 637216 B2	20-05-1993
			AU 7514391 A	28-11-1991
			JP 4229549 A	19-08-1992
			US 5084654 A	28-01-1992
