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(54) Electrodeless low-pressure mercury vapour discharge lamp

(57) An electrodeless low-pressure mercury vapor discharge lamp of the invention comprises a discharge vessel (1) that gas-tightly encloses a discharge-space (2) that is provided with a fill of mercury and a noble gas. The discharge vessel (1) has a light-transmitting enveloping part (3A) and further has a sunken part (3B) in which a coil (10) for generating a high-frequency magnetic field is arranged. At least a portion (5B) of a surface (4) of the discharge vessel (1) turned towards the discharge space (2) is provided with a luminescent layer (5A, 5B). At least a portion of the luminescent layer (5B) bears a protective layer (6B) of aluminum oxide particles with a covering weight of 10 to 500 $\mu\text{g}/\text{cm}^2$. The protective layer provides for a lower mercury consumption and/or a reduction in the change of colour point during lamp life.

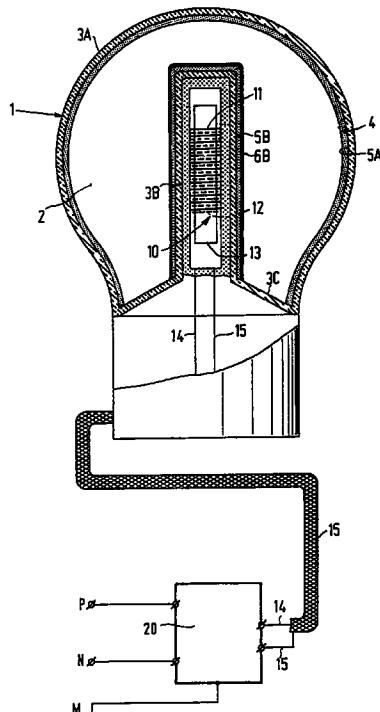


FIG.1



DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages		
Y,D	EP 0 162 504 A (PHILIPS NV) 27 November 1985 * abstract * * page 3, last paragraph * * page 4, line 10 - line 15 * ---	1-3	H01J65/04 H01J61/35 H01J61/48 H01J61/44
Y,D	GB 2 091 936 A (GTE PROD CORP) 4 August 1982 * abstract; claims 1-4; figures * * page 1, line 1 - line 32 * * page 2, line 7 - line 8 * ---	1,2	
Y	US 3 886 396 A (HAMMER EDWARD E ET AL) 27 May 1975 * abstract * * column 1, line 10 - line 27 * * column 1, line 45 - line 55 * * column 3, line 14 - line 24 * * column 4, last paragraph * * column 5, line 28 * ---	1-3	
A	EP 0 507 533 A (TOSHIBA LIGHTING & TECHNOLOGY) 7 October 1992 * column 2, line 2 - line 35 * * column 3, line 16 - line 18 * * column 4, line 40 - column 5, line 1 * * column 5, line 14 - line 21; figure 2 * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H01J
A	US 5 270 615 A (CHANG HSUEH-RONG) 14 December 1993 * abstract * * column 1, line 37 - line 65 * * column 2, line 34 - line 38 * ---	1	
A	US 4 607 191 A (FLAHERTY JOHN M) 19 August 1986 * column 1, line 1 - line 62 * ---	1	
		-/-	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	25 February 1997	Martin Vicente, M	
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EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 3 995 191 A (KADUK EDWARD E ET AL) 30 November 1976 * abstract; claim 6 * * column 1, line 29 - line 37 * * column 2, line 11 - line 16 * * column 2, line 65 - column 3, line 1 * -----	1	
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THE HAGUE	25 February 1997	Martín Vicente, M	
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