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(11) **EP 0 674 339 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
23.04.1997 Bulletin 1997/17

(51) Int. Cl.⁶: **H01J 65/04**, H01J 61/35,
H01J 61/48, H01J 61/44

(43) Date of publication A2:
27.09.1995 Bulletin 1995/39

(21) Application number: **95200649.2**

(22) Date of filing: **17.03.1995**

(84) Designated Contracting States:
BE DE FR GB IT NL

(30) Priority: **25.03.1994 EP 94200806**

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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.

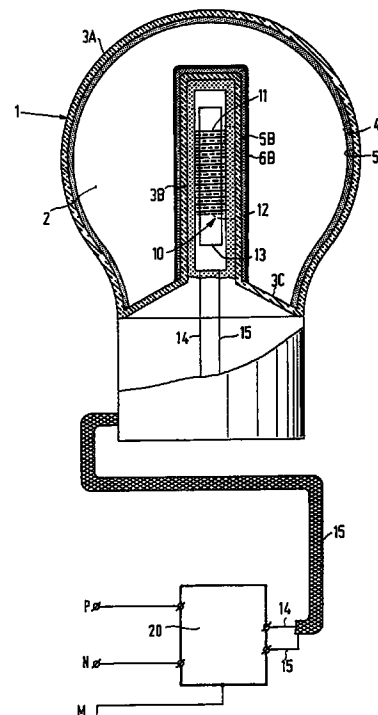


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 95 20 0649

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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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 THE HAGUE		Date of completion of the search 25 February 1997	Examiner Martín Vicente, M
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	

EPO FORM 1503 03.82 (P04C01)



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EUROPEAN SEARCH REPORT

Application Number
EP 95 20 0649

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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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