

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



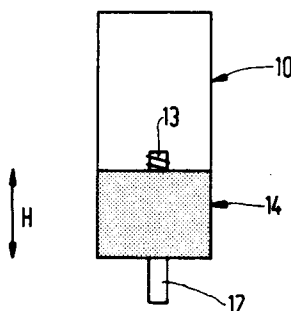
(11) Publication number:

0 506 182 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **92200786.9**(51) Int. Cl.⁵: **H01J 61/35, H01J 61/24**(22) Date of filing: **19.03.92**(30) Priority: **28.03.91 US 676930**(43) Date of publication of application:
30.09.92 Bulletin 92/40(84) Designated Contracting States:
BE DE FR GB IT NL(88) Date of deferred publication of the search report:
30.12.92 Bulletin 92/53(71) Applicant: **N.V. Philips' Gloeilampenfabrieken
Groenewoudseweg 1
NL-5621 BA Eindhoven(NL)**(72) Inventor: **Ramaiah, Raghu
c/o INT. OCTROOIBUREAU B.V., Prof.
Holstlaan 6
NL-5656 AA Eindhoven(NL)
Inventor: Kimmel, Suzette
c/o INT. OCTROOIBUREAU B.V., Prof.
Holstlaan 6
NL-5656 AA Eindhoven(NL)**(74) Representative: **Dusseldorp, Jan Charles et al
INTERNATIONAAL OCTROOIBUREAU B.V.
Prof. Holstlaan 6
NL-5656 AA Eindhoven(NL)**(54) **High pressure gas discharge lamps.**

(57) An improved high pressure gas discharge lamp. The lamp contains a standard arc tube (10) having electrodes (13) disposed at each end. The outer surface of at least one end of the arc tube is coated with a layer (14) of high radiative emissive material such as graphite or carbon. The coating serves to increase the radiative output of the arc tube at its so-called cold spot so as to cool the cold spot. The coating greatly decreases the voltage variation from lamp to lamp and permits manufacture of lamps within tighter voltage tolerances than have hitherto been achieved.

**FIG.1****EP 0 506 182 A3**



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 20 0786

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.5)
D,Y	US-A-3 842 304 (L. B. BEYER ET AL) * page 1, last paragraph; figure * * page 3, line 31 - line 41 * ---	1,3,5,6	H01J61/35 H01J61/24
Y	PATENT ABSTRACTS OF JAPAN vol. 005, no. 141 (E-073)5 September 1981 & JP-A-56 078 058 (MITSUBISHI) 26 June 1981 * abstract * ---	1,3,5,6	
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 146 (E-605)6 May 1988 & JP-A-62 262 357 (MITSUBISHI) 14 November 1987 * abstract * ---	1	
A	EP-A-0 366 187 (PHILIPS) * column 1, line 23 - line 34; figure * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H01J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 OCTOBER 1992	Examiner HULNE S.L.
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	