



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 359 200 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **89116864.3**

(51) Int. Cl.⁵: **H01J 61/34, H01J 61/82**

(22) Date of filing: **12.09.89**

(30) Priority: **12.09.88 US 243370**

Wilmington Delaware 19801(US)

(43) Date of publication of application:
21.03.90 Bulletin 90/12

(72) Inventor: **Krasko, Zeya K.**

21 Neptune Street

Beverly, MA 01915(US)

(64) Designated Contracting States:
BE DE FR GB NL

Inventor: **Keeffe, William M.**

20 Haven Avenue

Rockport, MA 01966(US)

(68) Date of deferred publication of the search report:
08.05.91 Bulletin 91/19

(71) Applicant: **GTE PRODUCTS CORPORATION**
1209 Orange Street

(74) Representative: **Lemke, Jörg-Michael,**
Dipl.-Ing.

Oberländerstrasse 16a

W-8900 Augsburg(DE)

(54) **Metal halide discharge lamp with improved color rendering properties.**

(57) A low wattage metal halide lamp having improved CRI is disclosed. The low wattage metal halide discharge lamp of the present invention comprises an outer sealed glass envelope; a pair of electrical conductors sealed into and passing through the glass envelope; an arc tube disposed within the outer glass envelope, the arc tube including a pair of spaced electrodes therein with the electrodes being electrically connected to the electrical conductors such that one electrode is electrically connected to one electrical conductor; a chemical fill disposed within the arc tube, the chemical fill comprising mercury, scandium metal, sodium iodide, scandium iodide, lithium iodide, and a starting gas; and a support structure disposed within the outer glass envelope to support the arc tube therein, the support structure (12) being electrically isolated from the electrical circuit of the lamp.

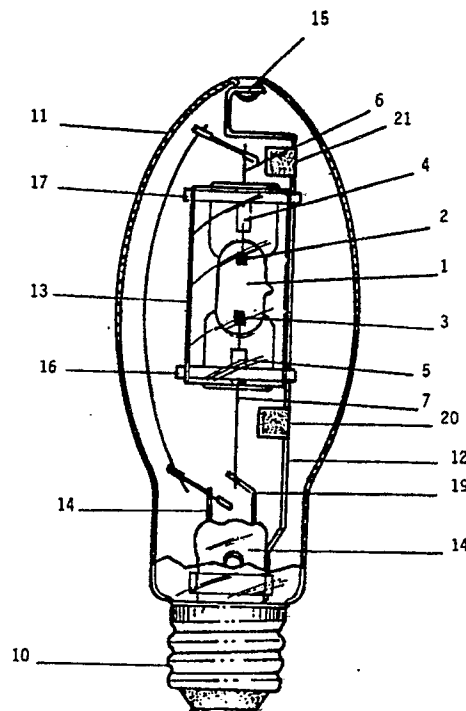


FIGURE 1

EP 0 359 200 A3



European
Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 11 6864

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)
A,D	EP-A-0 173 235 (G.T.E.) * Page 4, last paragraph - page 7; claims 1-22; figure 1 * - - -	1,2,3,6,7, 9,11,12, 13,14	H 01 J 61/34 H 01 J 61/82
A	US-A-3 979 624 (CHI-SHENG LIU et al.) * Column 6, paragraphs 2-3; figures 1,3; claims 1-8 * - - -	1-5,14	
A	EP-A-0 134 426 (G.T.E.) * Page 5, paragraphs 1-2 * - - -	1	
A	EP-A-0 210 626 (GENERAL ELECTRIC) * Page 3, last paragraph; figure 1 * - - -	2	
A	GB-A-1 533 345 (GENERAL ELECTRIC) * Page 1, right-hand column, last paragraph; page 2, paragraph 1; figure 1 * - - - - -	10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 J 61/00
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 07 February 91	Examiner HULNE S.L.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>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</div> <div>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</div>			