



⑫

## EUROPEAN PATENT APPLICATION

⑬ Application number: 89116864.3

⑮ Int. Cl.<sup>5</sup>: H01J 61/34, H01J 61/82

⑯ Date of filing: 12.09.89

⑭ Priority: 12.09.88 US 243370

Wilmington Delaware 19801(US)

⑯ Date of publication of application:  
21.03.90 Bulletin 90/12

⑰ Inventor: Krasko, Zeya K.  
21 Neptune Street  
Beverly, MA 01915(US)  
Inventor: Keeffe, William M.  
20 Haven Avenue  
Rockport, MA 01966(US)

⑯ Date of deferred publication of the search report:  
08.05.91 Bulletin 91/19

⑰ Representative: Lemke, Jörg-Michael,  
Dipl.-Ing.  
Oberländerstrasse 16a  
W-8900 Augsburg(DE)

⑲ Applicant: GTE PRODUCTS CORPORATION  
1209 Orange Street

### ⑳ Metal halide discharge lamp with improved color rendering properties.

⑳ 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.

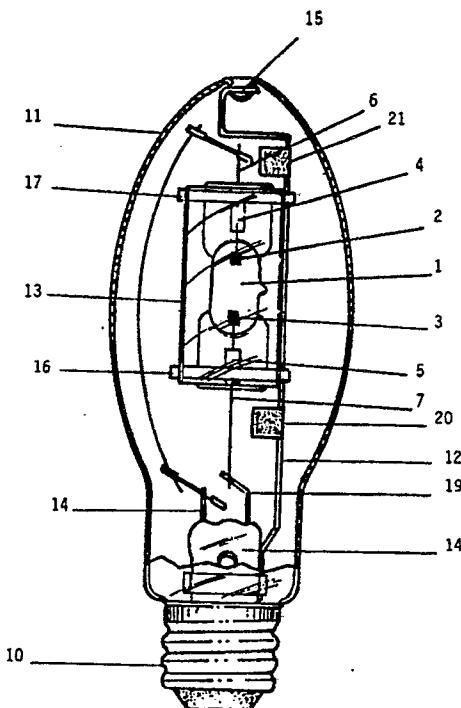


FIGURE 1



# EUROPEAN SEARCH REPORT

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)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)		
A,D	EP-A-0 173 235 (G.T.E.) * Page 4, last paragraph - page 7; claims 1-22; figure 1 * - - - A US-A-3 979 624 (CHI-SHENG LIU et al.) * Column 6, paragraphs 2-3; figures 1,3; claims 1-8 * - - - A EP-A-0 134 426 (G.T.E.) * Page 5, paragraphs 1-2 * - - - A EP-A-0 210 626 (GENERAL ELECTRIC) * Page 3, last paragraph; figure 1 * - - - A GB-A-1 533 345 (GENERAL ELECTRIC) * Page 1, right-hand column, last paragraph; page 2, paragraph 1; figure 1 * - - - - -	1,2,3,6,7, 9,11,12, 13,14 1-5,14 1 2 10	H 01 J 61/34 H 01 J 61/82		
			H 01 J 61/00		
The present search report has been drawn up for all claims					
Place of search	Date of completion of search	Examiner			
The Hague	07 February 91	HULNE S.L.			
CATEGORY OF CITED DOCUMENTS					
X: particularly relevant if taken alone	E: earlier patent document, but published on, or after the filing date				
Y: particularly relevant if combined with another document of the same category	D: document cited in the application				
A: technological background	L: document cited for other reasons				
O: non-written disclosure	.....				
P: intermediate document	&: member of the same patent family, corresponding document				
T: theory or principle underlying the invention					