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(54) **High intensity discharge lamp with intermediate pressure xenon fill gas**

(57) A high intensity arc discharge lamp comprises an outer light transmissive envelope having a light transmissive arc discharge tube positioned therewithin. The arc discharge tube has electrodes at opposite ends thereof and means are provided for electrical connection to the electrodes. An arc generating and sustaining medium is provided within the arc tube, the medium comprising a substantial amount of mercury, at least the iodides of sodium, scandium and lithium, and xenon at a fill pressure at room temperature of between about 130 millibar to about 260 millibar.

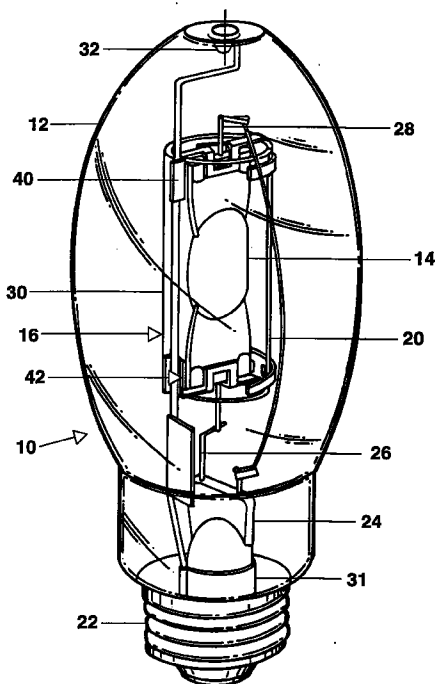


FIG. 1

EP 0 837 492 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 97 11 5546

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)
X	EP 0 110 248 A (GEN ELECTRIC) * claim 1; figure 1 * ---	1,6	H01J61/18 H01J61/82
X	FR 2 627 627 A (GEN ELECTRIC) * claim 1 *	1	
A	---	2,4,5	
X	DE 39 04 927 A (GEN ELECTRIC) * claims 1,2 *	1	
A	---	2,4,5	
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A	---	4,5	
X	US 4 179 640 A (LARSON DANIEL A ET AL) * column 3, line 45 - line 59 *	1	
A	EP 0 081 918 A (EMI PLC THORN) * page 6, line 30 - page 7, line 6; figure 4 *	1,6	
A	EP 0 078 105 A (EMI PLC THORN) * page 6, line 32 - page 7, line 8; figure 4 *	1,6	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H01J
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 April 1998	Examiner Deroubaix, P
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	

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