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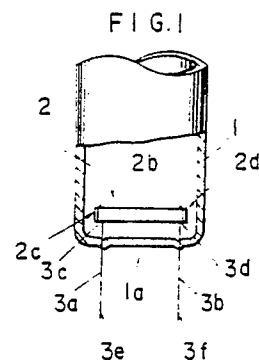
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54 **Hot cathode type discharge lamp apparatus.**

**EP 0 254 147 A3** 57 Hot cathode type discharge lamp apparatus of the invention is composed of a tube for discharge lamp, a cathode electrode member in nearly cylindrical form made of a semiconductor porcelain and arranged within the tube and including a longitudinal circumferential surface made a discharge surface, and two lead wires connected to both longitudinal ends of the cathode electrode member and penetrating an end portion of the tube. In the discharge lamp apparatus, since an electron emission material is not used in the cathode electrode but the semiconductor porcelain is used, activation of the electron emission material due to heating is not produced, thereby

blackening phenomenon of the tube wall of the discharge tube can be prevented and the life becomes long.





EP 87 10 9937

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.4)
X	US-A-3 766 423 (R.A. MENELLY) * Column 3, line 29 - column 7, line 17; figures 1-3 * ---	1,3-5	H 01 J 61/06
X	US-A-2 251 045 (G. GAIDIES et al.) * Whole document * -----	1,3-5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			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 the search 14-12-1989	Examiner SARNEEL A.P.T.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			