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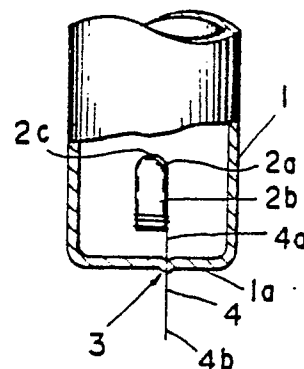
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54 **Cold cathode type discharge lamp apparatus.**

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 57 A cold cathode type discharge lamp apparatus of the invention is composed of a discharge lamp tube, a cathode electrode member in nearly cylindrical form made of a semiconductor porcelain and including an apex made a discharge surface, a sealing support member for sealing and supporting the cathode electrode member within the tube, and a lead wire connected to the cathode electrode member. In such discharge lamp apparatus, since an electron emission material is not used in the cathode electrode but the semiconductor porcelain is used, chemical reaction due to heating is not used, thereby blackening of the light emission tube is prevented

and the life becomes long.

FIG. 1a





EP 87 10 9938

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-3 911 309 (U. KÜMMEL et al.) * Column 2, line 53 - column 4, line 37; figures 1,2 * ----	1,3-8	H 01 J 61/06
X	DE-A-2 501 432 (CHEMOKOMPLEX VEGYIPARI-GEP ES BERENDEZES EXPORT) * Pages 13-14; figures 1-6 * ----	1,3-6, 10	
X	US-A-4 152 619 (R.S. BHALLA) * Page 2, line 32 - page 5, line 19; figures 1-6 * -----	1,3-7	
			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.
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			