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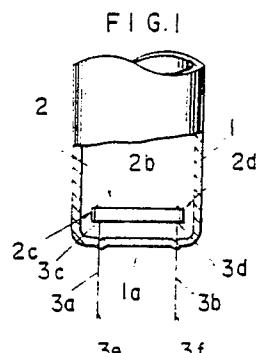
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(54) Hot cathode type discharge lamp apparatus.

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EP **Hot cathode type discharge lamp apparatus** (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.





| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (Int. Cl. 4) | | | | | | |
|---|---|---|--|-----------------|----------------------------------|----------|-----------|------------|----------------|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | | | | | | | |
| 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 | | | | | | |
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| | | | TECHNICAL FIELDS SEARCHED (Int. Cl.4) | | | | | | |
| | | | H 01 J 61/00 | | | | | | |
| <p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>14-12-1989</td> <td>SARNEEL A.P.T.</td> </tr> </table> | | | | Place of search | Date of completion of the search | Examiner | THE HAGUE | 14-12-1989 | SARNEEL A.P.T. |
| Place of search | Date of completion of the search | Examiner | | | | | | | |
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