

Title (en)

Cathode screen for gas discharge lamps.

Title (de)

Kathodenschirm für Gasentladungslampen.

Title (fr)

Ecran de cathode pour lampes à décharge dans un gaz.

Publication

EP 0555619 A1 19930818 (EN)

Application

EP 92850033 A 19920213

Priority

EP 92850033 A 19920213

Abstract (en)

A mica apertured plate (10, 20) has been developed for the purpose of manufacturing long-life fluorescent tubes in machines with the tubes lying horizontally, where diffusion pumping cannot be performed by the introduction of mercury droplets into the tube, but where it is necessary to purge the tube with alternating tube evacuating steps. In the case of one embodiment, this plate has a circular shape and is provided with slots (12, 13) which extend from the periphery of the circular plate in towards a central hole (11), such as to form intermediate tongues (14). The apertured plate is supported by support devices (8, 9) at a constant distance from the lamp electrode (3), such as to form between the plate (10) and the lamp tube a gap in which electrons and ions of the emission material released from the electrode (3) recombine. In another embodiment, the apertured plate (20) is oval and is provided with a central hole (21) and with a recess (23) which is located in the edge of the plate and in which support devices can engage. <IMAGE>

IPC 1-7

H01J 61/04

IPC 8 full level

H01J 61/04 (2006.01)

CPC (source: EP)

H01J 61/04 (2013.01)

Citation (search report)

- [X] FR 803474 A 19361001 - PHILIPS NV
- [A] BE 358007 A
- [A] DE 1539504 A1 19691106 - PHILIPS NV
- [AD] WO 8101344 A1 19810514 - LUMALAMPAN AB [SE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 12 (E-091)23 January 1982 & JP-A-56 134 468 (TOSHIBA CORP) 21 October 1981
- [A] PATENT ABSTRACTS OF JAPAN vol. 5, no. 30 (E-047)24 February 1981 & JP-A-55 157 850 (TOSHIBA CORP) 8 December 1980

Cited by

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