

Title (en)
FIELD-EMISSION FLAT LAMP AND THE MANUFACTURE THEREOF

Title (de)
FLACHE FELDEMISSIONSLAMPE UND IHRE HERSTELLUNG

Title (fr)
LAMPE PLANE A EMISSION PAR EFFET DE CHAMP ET SA FABRICATION

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Application
EP 09746001 A 20090428

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Abstract (en)
[origin: WO2009138682A2] The subject of the invention is a field-emission flat lamp (100) transmitting radiation in the visible and/or the ultraviolet, comprising: first and second plane dielectric walls (1, 2) with an anode (3) and a cathode (4) respectively, the first wall/anode assembly being transparent or generally transparent in the visible and/or the UV, a cathodoluminescent material, and electron-accelerating element that comprises an essentially mineral (6) and apertured dielectric plate and/or a discontinuous enamel-based dielectric layer (6"), the openings emerging (63) on at least what is called the free main face (61) of the plate facing the internal face (21) of the first wall, for said electron bombardment, said apertured plate (6) or said discontinuous enamel-based dielectric layer (6") bearing, on its free face (61), a third electrode (7) forming an accelerating electrode, or having a poled surface, thus creating an electron-accelerating remanent electric field. The invention also relates to the manufacture thereof.

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See references of WO 2009138682A2

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