

Title (en)

PROCESS FOR PRODUCING A THERMIONIC CATHODE, AND THERMIONIC CATHODE MANUFACTURED BY THIS PROCESS

Publication

EP 0081270 A3 19840606 (DE)

Application

EP 82201538 A 19821203

Priority

DE 3148441 A 19811208

Abstract (en)

[origin: ES8308449A1] The cathode (4) the material of which is substantially high-melting metal such as W, Mo, Ta, Nb, Re and/or C, consists of a very fine-grained mechanically stable support layer (5), a series of layers (6) considerably enriched with emissive material, in general from the scandium group especially from the group of rare earth metals, preferably with Th or compounds thereof and a thermally stable preferentially oriented coating layer (7). All the layers are provided via the gaseous phase, for example, CVD methods, on a substrate (1) formed according to the desired cathode geometry. The substrate (1) is removed after termination of the deposition. FIG. 2.

IPC 1-7

H01J 1/13; **H01J 9/04**

IPC 8 full level

H01J 1/13 (2006.01); **H01J 1/14** (2006.01); **H01J 1/28** (2006.01); **H01J 9/04** (2006.01)

CPC (source: EP US)

H01J 1/14 (2013.01 - EP US); **H01J 9/04** (2013.01 - EP US)

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