

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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Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 0081270 A2 19830615**; **EP 0081270 A3 19840606**; **EP 0081270 B1 19861203**; CA 1211737 A 19860923; DE 3148441 A1 19830721; DE 3274598 D1 19870115; ES 517938 A0 19830816; ES 8308449 A1 19830816; HU 194646 B 19880229; JP H0354415 B2 19910820; JP S58106735 A 19830625; US 4533852 A 19850806

DOCDB simple family (application)

**EP 82201538 A 19821203**; CA 416802 A 19821201; DE 3148441 A 19811208; DE 3274598 T 19821203; ES 517938 A 19821206; HU 391082 A 19821206; JP 21537682 A 19821208; US 44707982 A 19821206