

Title (en)

Impregnated thermionic cathode for electron tube.

Title (de)

Imprägnierte thermiorische Kathode für Elektronenröhre.

Title (fr)

Cathode thermo-électronique imprégnée pour tube électronique.

Publication

**EP 0401068 A1 19901205 (FR)**

Application

**EP 90401216 A 19900507**

Priority

FR 8907084 A 19890530

Abstract (en)

Cathode comprising a matrix (4) made of a porous material impregnated with an emissive product (aluminates of barium and of calcium). The porous body (4) is covered with a layer (5) of a non-porous refractory material and has prescribed porosity thanks to a set of narrow slots (6) obtained by etching. This layer is advantageously obtained by chemical vapour-phase deposition (C.V.D.) and has a thickness of the order of one to several hundred micrometres. <IMAGE>

IPC 1-7

**H01J 1/28**

IPC 8 full level

**H01J 1/28** (2006.01)

CPC (source: EP)

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Citation (search report)

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- [X] INTERNATIONAL ELECTRON DEVICES MEETING, INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS, IEDM'83, Washington, 5-7 décembre 1983, pages 448-451, IEEE, New York, US; L.R. FALCE: "Dispenser cathodes: the current state of the technology"
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CN103311066A; EP0549034A1; EP0492763A1

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