

Publication

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Application

EP 97927842 A 19970605

Priority

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- US 66053696 A 19960607
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Abstract (en)

[origin: WO9747021A1] An electron-emitter having a lower non-insulating emitter region (42), an overlying insulating layer (44), and a gate layer (48A, 60A, 60B, 120A, or 180A/184) is fabricated by a process in which particles (46) are distributed over one of the following layers: the insulating layer, the gate layer, a primary layer (50A, 62A, or 72) provided over the gate layer, a further layer (74) provided over the primary layer, or a pattern-transfer layer (182). The particles are utilized in defining gate openings (54, 66, 80, 122, or 186/188) through the gate layer. The gate openings are then variously employed in forming dielectric openings (56, 58, 80, 114, 128, 144, or 154) through the insulating layer. Electron-emissive elements that can, for example, be shaped like cones (58A or 70A) or like filaments (106B, 116B, 130A, 146A, or 156B) are formed in the dielectric openings.

IPC 1-7

H01J 9/02

IPC 8 full level

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CPC (source: EP)

H01J 9/025 (2013.01); **H01J 2329/00** (2013.01)

Citation (search report)

- [E] WO 9747020 A1 19971211 - CANDESCENT TECH CORP [US]
- [A] EP 0707237 A1 19960417 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [A] US 5007873 A 19910416 - GORONKIN HERBERT [US], et al
- [A] US 5249340 A 19931005 - KANE ROBERT C [US], et al
- See references of WO 9747021A1

Designated contracting state (EPC)

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