

Title (en)

Electron-emitting device, and electron beam-generating apparatus and image-forming apparatus employing the device.

Title (de)

Elektronemittierende Vorrichtung, Elektronenstrahlerzeugungsgerät und diese Vorrichtung verwendendes Bilderzeugungsgerät.

Title (fr)

Dispositif émetteur d'électrons, appareil générateur d'un faisceau d'électrons et appareil de formation d'image muni d'un tel dispositif.

Publication

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Application

EP 92117138 A 19921007

Priority

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- JP 26871492 A 19921007

Abstract (en)

An electron-emitting device having an electron-emitting region between electrodes on a substrate where the electron-emitting region contains fine particles dispersed therein at an areal occupation ratio of the fine particles ranging from 20 % to 75 % of the electron-emitting region is disclosed. The other electron-emitting device where the electron-emitting region contains fine particles being arranged at gaps of from 5 ÅNGSTROM to 100 ÅNGSTROM and having average particle diameter of from 5 ÅNGSTROM to 1000 ÅNGSTROM is also disclosed. Electron beam-generating apparatus and image-forming apparatus comprise one of the electron-emitting regions and a modulation means for modulating the electron beams emitted from the electron-emitting devices in accordance with information signals. <IMAGE>

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H01J 1/30; **H01J 31/12**

IPC 8 full level

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CPC (source: EP)

H01J 1/316 (2013.01); **H01J 31/127** (2013.01); **H01J 2201/3165** (2013.01); **H01J 2329/8625** (2013.01)

Citation (applicant)

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