

Title (en)

AMORPHIC DIAMOND FILM FLAT FIELD EMISSION CATHODE

Title (de)

FLACHFELDEMISSIONSKATHODE AUS AMORPHEN DIAMANT

Title (fr)

CATHODE PLATE A EMISSION DE CHAMP POURVUE D'UNE PELLICULE DE DIAMANT AMORPHE

Publication

EP 0730780 A1 19960911 (EN)

Application

EP 94905336 A 19931206

Priority

- US 9311845 W 19931206
- US 7115793 A 19930602

Abstract (en)

[origin: WO9428571A1] A field emission cathode includes a layer of conductive material (14) and a layer of amorphic diamond film (12), functioning as a low effective work-function material, deposited over the conductive material to form emission sites. The emission sites each contain at least two sub-regions having differing electron affinities.

IPC 1-7

H01J 19/24; H01J 1/30; H01J 61/067

IPC 8 full level

H01J 1/304 (2006.01); **H01J 31/12** (2006.01); **H01J 61/067** (2006.01); **H01J 63/06** (2006.01)

CPC (source: EP KR)

H01J 1/304 (2013.01 - EP); **H01J 19/24** (2013.01 - KR); **H01J 31/127** (2013.01 - EP); **H01J 61/0677** (2013.01 - EP); **H01J 63/06** (2013.01 - EP);
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JP H08510858 A 19961112; KR 100307042 B1 20011217; KR 960702937 A 19960523

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