

Title (en)

FIELD EMISSION DEVICES MADE WITH LASER AND/OR PLASMA TREATED CARBON NANOTUBE MATS, FILMS OR INKS

Title (de)

MIT LASER UND/ODER PLASMA BEHANDELTEN KOHLENSTOFFNANORÖHRENMATTE; FOLIEN ODER TINTEN HERGESTELLTE FELD EMISSIONSVORRICHTUNGEN

Title (fr)

DISPOSITIFS D'EMISSION DE CHAMP COMPRENANT DES MATS, FILMS OU ENCRE DE NANOFIBRES DE CARBONE TRAITEES AU LASER ET/OU AU PLASMA

Publication

EP 1663857 A2 20060607 (EN)

Application

EP 04777763 A 20040709

Priority

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Abstract (en)

[origin: WO2005012162A2] Field emission devices comprising carbon nanotube mats which have been treated with laser or plasma are provided. Mats are formed from carbon nanotubes, also known as carbon fibrils, which are vermicular carbon deposits having diameters of less than about one micron. The carbon nanotube mats are then subjected to laser or plasma treatment. The treated carbon nanotube mat results in improved field emission performance as either a field emission cathode or as part of a field emission device.

IPC 1-7

C01B 6/00

IPC 8 full level

H01J 9/02 (2006.01); **H01B 1/04** (2006.01); **H01J 1/304** (2006.01); **H01J 9/04** (2006.01)

IPC 8 main group level

C01B (2006.01)

CPC (source: EP KR)

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