

Title (en)
FIELD EMISSION BACKPLATE

Title (de)
FELDEMISSIONS-RÜCKPLATTE

Title (fr)
PLAQUE ARRIÈRE À ÉMISSION DE CHAMP

Publication
EP 2050116 A1 20090422 (EN)

Application
EP 07789067 A 20070726

Priority
• GB 2007002852 W 20070726
• GB 0615615 A 20060807

Abstract (en)
[origin: GB2440783A] A field emission backplate 5a used in a field emission device such as a display device, and an associated method of manufacture. A field emission backplate 5a comprises a substrate 10a, a cathode metal layer 11a upon which is deposited an amorphous semiconductor layer 15a comprising hydrogenated amorphous silicon. The backplate 5a is exposed to laser irradiation so as to form a plurality of conductive or conducting particulates or particles 20a within the amorphous silicon layer 15a. The surface 25a may be substantially flat or planar, or may comprise a plurality of tips.

IPC 8 full level
H01J 1/304 (2006.01); **H01J 9/02** (2006.01); **H01J 31/12** (2006.01)

CPC (source: EP GB)
H01J 1/304 (2013.01 - GB); **H01J 1/3048** (2013.01 - EP); **H01J 9/025** (2013.01 - EP GB); **H01J 31/127** (2013.01 - EP)

Cited by
CN108767413A

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Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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