

Title (en)

CATALYTICALLY GROWN CARBON FIBER FIELD EMITTERS AND FIELD EMITTER CATHODES MADE THEREFROM

Title (de)

FELDEMISSIONSANORDNUNGEN AUS KATALYTISCH GEWACHSENEN KOHLENSTOFFFASERN UND DARAUS HERGESTELLTE FELDEMISSIONSKATHODE

Title (fr)

EMETTEURS DE CHAMP A FIBRES DE CARBONE OBTENUES PAR CATALYSE ET CATHODES EMETTRICE DE CHAMP FABRIQUEES A PARTIR DE CEUX-CI

Publication

**EP 1285450 A1 20030226 (EN)**

Application

**EP 01939226 A 20010522**

Priority

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Abstract (en)

[origin: WO0193292A1] This invention provides an electron field emitter and field emitter cathode comprised of carbon fibers grown from the catalytic decomposition of carbon-containing gases over small metal particles. Each carbon fibers has graphene platelets arranged at an angle with respect to the fiber axis so that the periphery of the carbon fiber consists essentially of the edges of the graphene platelets. These field emitters and field emitter cathodes are useful in computer, television and other types of flat panel displays.

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