

Title (en)
METHOD OF SYNTHESISING AND GROWING NANORODS FROM A METAL CARBIDE ON A SUBSTRATE, SUBSTRATES THUS OBTAINED AND APPLICATIONS THEREOF

Title (de)
VERFAHREN ZUR HERSTELLUNG UND ZÜCHTUNG VON NANOSTÄMMEN EINES METALLISCHEN KARBIDS AUF EINEM SUBSTRAT, DADURCH HERGESTELLTE SUBSTRATE UND DEREN VERWENDUNGEN

Title (fr)
PROCEDES DE SYNTHESE ET DE CROISSANCE DE NANOTIGES D'UN CARBURE METALLIQUE SUR UN SUBSTRAT, SUBSTRATS AINSI OBTENUS ET LEURS APPLICATIONS

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EP 1570101 A2 20050907 (FR)

Application
EP 03799710 A 20031204

Priority
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Abstract (en)
[origin: FR2848204A1] The synthesis of metal carbide (M1) nano-rods on a substrate comprises: (a) the deposition, on the substrate, of a layer containing some oxide nano-crystals of metal (M1) and some oxide nano-crystals of at least one metal (M2) different to metal M1, the oxide nano-crystals of metal M1 being dispersed in this layer; (b) the reduction of the oxide nano-crystals of these two metals; (c) the selective growth of the nano-crystals of metal M1. An Independent claim is also included for a substrate incorporating metallic carbide nano-rods fixed on its surface perpendicular to a principal plane of the substrate and physically separated from each other.

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