

Title (en)

METHOD FOR DEPOSITING OXIDE THIN FILMS ON TEXTURED AND CURVED METAL SURFACES

Title (de)

VERFAHREN ZUR ABSCHIEDUNG VON OXID-DÜNNFILMEN AUF TEXTURIERTEN UND GEKRÜMMTEN METALLOBERFLÄCHEN

Title (fr)

PROCÉDÉ DE DÉPÔT DE FILMS D'OXYDES MINCES SUR DES SURFACES MÉTALLIQUES TEXTURÉES COURBÉES

Publication

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Application

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Abstract (en)

[origin: WO2010076428A1] The invention relates to a method for depositing an epitaxial metal oxide buffer layer onto the functionalised surface of a textured metal substrate, said method including the following steps: (1) depositing a layer of an A₂-XB₂+XO₇ oxide precursor, where A is a metal having a valence of 3 or a mixture of a plurality of such metals, and B is a metal having a valence of 4, and x is a number between -0.1 and +0.1, from a solution of carboxylates of said metals A and B; (2) letting the oxide precursor layer dry; (3) carrying out a thermal processing so as to pyrolyse said oxide precursor and so as to form the oxide, at least a portion of said thermal processing being carried out under a reduction gas scanning.

IPC 8 full level

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