

Title (en)
METHOD FOR COATING SURFACES WITH MICRO- AND NANOPARTICLES WITH THE AID OF PLASMA METHODS

Title (de)
VERFAHREN ZUR BESCHICHTUNG VON OBERFLÄCHEN MIT MIKRO- UND NANOPARTIKELN MIT HILFE VON PLASMAVERFAHREN

Title (fr)
PROCÉDÉ DESTINÉ À L'INDUCTION DE SURFACES AVEC DES MICRO- ET NANOPARTICULES À L'AIDE D'UN PROCÉDE PLASMATIQUE

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Abstract (en)
[origin: WO2008145750A2] The invention relates to a method for coating surfaces with micro- and nanoparticles, the micro- and nanoparticles being chemically bonded to the surface, comprising the steps of pre-treatment of the surface with a plasma method, simultaneous or subsequent application of the micro- and nanoparticles to the surface, and subsequent fixation of the micro and nanoparticles on the surface using a plasma method, characterized in that the fixation of the micro- and nanoparticles takes place with the aid of anisothermal plasmas, the median electrical energy of which lies in the range of the bond dissociation energy of the micro- and nanoparticles, thus allowing the strength of the chemical bond between the surface and the micro- and nanoparticles to be variably set.

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