Title (en)

METHOD FOR PRODUCING A WORKPIECE SURFACE AND WORKPIECE WITH PREDEFINABLE HYDROPHILIC WETTING CHARACTERISTICS FOR SAID SURFACE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER WERKSTÜCKOBERFLÄCHE, SOWIE WERKSTÜCK MIT VORGEBBAREN HYDROPHILEN BENETZUNGSEIGENSCHAFTEN DER OBERFLÄCHE

Title (fr)

PROCÉDÉ DE RÉALISATION D'UNE SURFACE DE PIÈCE ET PIÈCE DONT LA SURFACE A DES PROPRIÉTÉS DE MOUILLAGE HYDROPHILES POUVANT ÊTRE PRÉDÉTERMINÉES

Publication

EP 2235231 A1 20101006 (DE)

Application

EP 08714780 A 20080320

Priority

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- CH 5762007 A 20070405

Abstract (en)

[origin: WO2008122133A1] The aim of the invention is to produce a workpiece (10) with a hydrophilic surface (9), the degree of hydrophilic behaviour of said surface being selectable. To achieve this, at least some sections of the surface of a substrate material (1) are provided with a microstructure (2, 3) by mechanical embossing and are then coated and a nanostructure (5), which is overlaid on the microstructure (2, 3), is created by means of a plasma treatment consisting of at least two stages. A protective layer (6) containing hydrocarbons and/or at least one cover layer (7) is deposited over the nanostructure (5), the desired hydrophilic characteristics occurring on the surface (9) of said layer. This targeted overlaying of different structures allows the specific creation of surfaces with the desired degree of wettability.

IPC 8 full level

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Citation (search report)

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Cited by

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