

Title (en)

METHOD FOR STRUCTURING THE SURFACE OF A SYNTHETIC FIBER, DEVICE FOR CARRYING OUT SAID METHOD, AND FIBER THAT IS TWO-Dimensionally profiled all around

Title (de)

VERFAHREN ZUR OBERFLÄCHENSTRUKTURIERUNG EINER SYNTHETISCHEN FASER, VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS SOWIE RUNDUM FLÄCHIG PROFILIERT FASER

Title (fr)

PROCEDE POUR LA STRUCTURATION DE SURFACE D'UNE FIBRE SYNTHETIQUE, DISPOSITIF POUR L'EXECUTION DE CE PROCEDE, AINSI QUE FIBRE PROFILEE SUR TOUTE SA SURFACE

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Application

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Priority

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Abstract (en)

[origin: WO2005001178A1] Disclosed is a method for structuring the surface of a synthetic fiber, according to which a substantially cylindrical fiber (2) is provided with a predefined surface structure (38, 38a, 38b) by means of plastic deformation. A fiber (2) that is supplied in a plastically deformable state is plastically deformed in an embossing process by means of a microlithographically structured embossing roller (28) having a maximum structural fineness of 10 nm and is then transferred into a rigid state while the created surface structure (38, 38a, 38b) is maintained.

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