

Title (en)

FIBRE WITH IMPROVED COMPLEXATION QUALITIES AND CATION-EXCHANGE PROPERTIES

Title (de)

FASERN MIT VERBESSERTEN KOMPLEXIERUNGS- UND KATIONENAUSTAUSCHEIGENSCHAFTEN

Title (fr)

FIBRE PRESENTANT DES PROPRIETES DE COMPLEXATION AMELIOREES ET DES PROPRIETES ECHANGEUSES DE CATIONS

Publication

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Application

**EP 00905144 A 20000215**

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Abstract (en)

[origin: US7048769B1] The present invention concerns a process for treating a fiber or a fiber-based material such as a yarn, a woven, knitted or nonwoven textile material, paper, or leather, to improve its adsorption properties, wherein the following successive operations are carried out on said fiber or said material: a) applying a solid mixture of cyclodextrin(s) and/or cyclodextrin derivative(s) and/or inclusion complex(es) of cyclodextrin and/or cyclodextrin derivatives, at least one poly(carboxylic) acid and/or at least one poly(carboxylic) acid anhydride and optionally a catalyst; b) heating to a temperature in the range 150° C. to 220° C.; c) washing with water; and d) drying. The present invention also concerns fibers or fiber-based materials with improved cation exchange properties and improved hydrophilic characteristics.

IPC 1-7

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