

Title (en)

FINE FIBER NONWOVEN FABRIC AND PRODUCT SIMILAR TO PAPER, AND METHOD FOR PRODUCING THE SAME

Title (de)

FEINSTFASERVLIESE UND PAPIERÄHNLICHE PRODUKTE SOWIE VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

NON-TISSÉ COMPRENANT DES FIBRES FINES ET PRODUIT SIMILAIRE AU PAPIER, AINSI QUE LEUR PROCÉDÉ DE FABRICATION

Publication

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Application

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Abstract (en)

[origin: WO2013152858A1] The invention relates to superfine-fibre non-wovens and paper-like products, which consist of fibrous flake materials made from glass-like hardened, reactive low-molecular resin melts suitable for polymer formation. On reaching a resin-specific fibre fineness, a consistent polymer formation and/or functionalisation can be triggered by means of targeted, subsequent external action of fluid or gaseous reactants or catalysts. The invention also relates to a method for producing the superfine-fibre non-wovens or paper-like products, in which reactive, low-molecular resin melts are extruded in gaseous media with high gas speeds and temperatures above the melt temperature of the low-molecular resin melts and the resulting superfine-fibre structures are warped and split such that a flake formation occurs. The flakes are deposited to form non-wovens or paper-like products. The reactive low-molecular resin is converted into a duroplastic resin by means of heating and/or the influence of catalysts.

IPC 8 full level

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CPC (source: EP)

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