

Title (en)

Elastic non-woven fabric and method for its production

Title (de)

Elastischer Vliesstoff und Verfahren zu dessen Herstellung

Title (fr)

Etoffe de nappe de fibres élastique et son procédé de fabrication

Publication

EP 1903134 A1 20080326 (DE)

Application

EP 07016270 A 20070820

Priority

DE 102006045616 A 20060925

Abstract (en)

Water (2) in a container (1) is heated to a first temperature. The container is loaded with a length of fleece (3) material. The material is moved through the water at a first velocity and tensioned in at least one direction. By reduction of the velocity to zero, or by reversal of direction, the width of the material is reduced. Cross-linking, de-aerating and plasticizing agents are mixed with the water. The material is dried on a tenter frame at 140[deg] C whilst maintaining longitudinal stressing on it. It is wound up (8). The fleece produced, is elastic and can be extended in at least one direction by at least 30% of its original extent. The material weight is 40 - 150 g/m 2>. Its ultimate tensile strength is 200 N/5 to 500 N/5. The microfilament size is 0.1 - 0.15 dtex. The microfilaments include polyamide and polyester and arise as a result of splitting bi-component filaments. The flat layer is free of folds and waves. An independent claim IS INCLUDED FOR the fleece produced.

Abstract (de)

Ein Vliesstoff, umfassend eine flächige Lage aus thermoplastischen Filamenten, wobei die Lage elastisch ausgestaltet ist und in mindestens einer Richtung um mindestens 30% ihrer Anfangsausdehnung vergrößerbar ist, sowie ein Verfahren zur Herstellung eines Vliesstoffs lösen die Aufgabe, einen Vliesstoff und ein Verfahren anzugeben, mit welchen ausreichend elastische textile Flächenwaren kostengünstig herstellbar sind.

IPC 8 full level

D04H 1/50 (2012.01); **D04H 3/009** (2012.01); **D04H 3/011** (2012.01); **D04H 3/016** (2012.01); **D04H 3/11** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP)

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Citation (search report)

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