

Title (en)
NONWOVEN CLOTH OF ULTRAFINE FIBERS AND METHOD OF MANUFACTURING THE SAME.

Title (de)
VLIESSTOFF AUS SEHR FEINEN FASERN UND DER HERSTELLVERFAHREN.

Title (fr)
NON-TISSE DE FIBRES ULTRAFINES ET PROCEDE POUR SA FABRICATION.

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EP 0624676 A4 19950201 (EN)

Application
EP 93921107 A 19931004

Priority
• JP 9301417 W 19931004
• JP 29208792 A 19921005

Abstract (en)
[origin: WO9408083A1] A nonwoven cloth (6) of ultrafine fibers having high bulkiness, heat retaining property and tensile strength. A thermoplastic polymer component A is provided. A thermoplastic polymer component (B) non-compatible with respect to the component A and having a melting point higher than that of the component A by 30 -180 C is provided. A fiber web is formed by accumulating long composite fibers obtained by a bicomponent melt spinning method using the components A, B with at least the component A exposed on the outer surfaces of the fibers. The component A only is then softened or melted by applying heat to predetermined regions of the fiber web in the direction of the thickness thereof, so that the long composite fibers are fused together. A fiber fleece (5) having predetermined regions spaced in a dotted or latticed state is obtained. This fiber fleece (5) is subjected to a rubbing step. The long composite fibers existing in the non-fused region (12) are divided so that the fiber dividing rate reaches a predetermined level, to produce fibers A consisting of the component A alone and fibers B consisting of the component B alone.

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Citation (search report)
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• [A] EP 0380358 A2 19900801 - CHISSO CORP [JP]
• [A] FR 2044782 A1 19710226 - TORAY INDUSTRIES
• [A] US 4476186 A 19841009 - KATO HIROYASU [JP], et al
• [A] DATABASE WPI Section Ch Week 9032, Derwent World Patents Index; Class A17, AN 90-243042
• [A] DATABASE WPI Section Ch Week 9216, Derwent World Patents Index; Class A17, AN 92-126174
• See references of WO 9408083A1

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