

Title (en)
NON-WOVEN VELOUR FABRIC AND ITS APPLICATION

Title (de)
VELOURNADELVLIESTOFF UND SEINE VERWENDUNG

Title (fr)
ETOFFE NAPPÉE DE VELOURS ET SON UTILISATION

Publication
EP 2050850 A1 20090422 (DE)

Application
EP 07018532 A 20070920

Priority
EP 07018532 A 20070920

Abstract (en)
The non-woven fabric used, is a spun-bonded fleece. This is optionally pre-bonded. It contains multi-component filaments, including at least one high-melting component and at least one low-melting component. The latter can be thermally-activated. Bi-component filaments are used, in a proportion preferably exceeding 15%, based on the total fabric weight. The filament structure is core/casing, side-by-side, island-in-the-sea and/or pie (or hollow pie). The low melting component is CoPET, CoPA, PA, PP, CoPP, atactic PP and/or PE. The high-melting component is PET, PLA, PBT, PA and/or PP. The spun fleece contains up to 75 wt% of staple fibers. The fibers and/or filaments are crimped. At least one layer forming a velour surface is included; this is made from needled fleece as described. A heavy backing layer is included on the rear of the velour surface, optionally with a sound-damping layer. One or more bonding layers are included between the other layers. These include fibers or filaments of low- and high-melting polymer as described. The filaments and/or fibers of all layers are made from the same polymer and/or its derivatives.

Abstract (de)
Es wird ein Veloumadelvliesstoff beschrieben, welcher durch Ablegen eines ggf. vorverfestigten Vlieses auf einer bürstenartigen Stichunterlage und Nadeln des Vlieses auf dieser Unterlage hergestellt wird. Der erfindungsgemäße Veloumadelvliesstoff zeichnet sich dadurch aus, dass das Vlies ein Spinnvlies mit Filamenten umfasst, wobei die Filamente Mehrkomponentenfilamente mit wenigstens einer hochschmelzenden und wenigstens einer thermisch aktivierbaren niedrighschmelzenden Komponente umfassen. Der erfindungsgemäße Voloumadelvliesstoff besitzt nicht nur sehr gute mechanische Eigenschaften, sondern er ist insbesondere ausgesprochen Umwelt- und Gesundheitsverträglich und daher für Anwendungen als textile Verkleidung nicht nur im privaten, sondern ganz besonders im Objektbereich geeignet.

IPC 8 full level
D04H 1/46 (2012.01); **D04H 3/105** (2012.01); **D04H 3/14** (2012.01); **D04H 3/147** (2012.01); **D04H 5/02** (2012.01); **D04H 11/08** (2006.01)

CPC (source: EP US)
D04H 1/46 (2013.01 - EP); **D04H 3/105** (2013.01 - EP); **D04H 3/14** (2013.01 - EP); **D04H 3/147** (2013.01 - EP); **D04H 5/02** (2013.01 - EP); **D04H 11/08** (2013.01 - EP US); **Y10T 74/19149** (2015.01 - EP US)

Citation (search report)
• [A] FR 2704007 A1 19941021 - TEXTILMASHINENFABRIK E FEHRER [AT]
• [A] DE 19823272 A1 19991202 - MAYER MALIMO TEXTILMASCHF [DE]
• [A] US 4651393 A 19870324 - DILO RICHARD [DE], et al
• [A] DE 19826981 A1 19991223 - KAISER PETER [DE]
• [A] EP 0960227 A1 19991201 - TARKETT SOMMER SA [FR]
• [A] US 2003056883 A1 20030327 - BANSAL VISHAL [US], et al

Cited by
CN102717559A; US11441251B2; US9902128B2; US11168418B2; WO2020148150A1; US10590577B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2050850 A1 20090422; EP 2050850 B1 20090610; AT E433510 T1 20090615; BR PI0817205 A2 20150310; CN 101821442 A 20100901; CN 101821442 B 20120627; DE 502007000857 D1 20090723; DK 2050850 T3 20090803; ES 2326006 T3 20090928; JP 2010539346 A 20101216; JP 5228050 B2 20130703; MY 150375 A 20131231; PL 2050850 T3 20091130; PT 2050850 E 20090729; RO 126483 A2 20110729; RO 126483 B1 20130530; RU 2418894 C1 20110520; SI 2050850 T1 20091031; WO 2009039914 A1 20090402

DOCDB simple family (application)
EP 07018532 A 20070920; AT 07018532 T 20070920; BR PI0817205 A 20080801; CN 200880107898 A 20080801; DE 502007000857 T 20070920; DK 07018532 T 20070920; EP 2008006370 W 20080801; ES 07018532 T 20070920; JP 2010525217 A 20080801; MY PI20101129 A 20080801; PL 07018532 T 20070920; PT 07018532 T 20070920; RO 201000242 A 20080801; RU 2010115576 A 20080801; SI 200730048 T 20070920