

Title (en)

Method for improving the tear resistance and/or tear propagation of adsorptive filter material and material obtained therefrom

Title (de)

Verfahren zur Verbesserung der Reissfestigkeit und/oder Weiterreissfestigkeit von Adsorptionsfiltermaterialien und damit hergestelltes Adsorptionsfiltermaterial

Title (fr)

Procédé pour améliorer la résistance à la déchirure et/ou la propagation de la déchirure dans un matériau filtre adsorptive et matériau obtenu par ledit procédé

Publication

**EP 1752572 A1 20070214 (DE)**

Application

**EP 06014664 A 20060714**

Priority

DE 102005038098 A 20050810

Abstract (en)

Method for improving the crack resistance of a warp knitted product comprises providing the product with a number of stitch wales, a number of stitch rows and binding elements which extend over the rows. An independent claim is also included for an absorption filter material. Preferred Features: The binding elements are formed by smooth, textured and/or reinforced threads made from cotton, polyester and/or polyamide. The warp knitted product is additionally impinged with a spot-like applied adhesive for fixing an adsorbent for adsorbing chemical poison and chemical warfare agents. The adhesive is applied in an amount of less than 100 g/m<sup>2</sup>, especially less than 60 g/m<sup>2</sup>.

IPC 8 full level

**D04B 21/16** (2006.01)

CPC (source: EP US)

**A41D 31/245** (2019.01 - EP US); **D04B 21/16** (2013.01 - EP US); **D10B 2501/04** (2013.01 - EP); **D10B 2505/04** (2013.01 - EP); **Y10T 428/24802** (2015.01 - EP US); **Y10T 428/24818** (2015.01 - EP US); **Y10T 442/2508** (2015.04 - EP US); **Y10T 442/45** (2015.04 - EP US); **Y10T 442/494** (2015.04 - EP US)

Citation (search report)

- [X] GB 2055407 A 19810304 - COSMOPOLITAN TEXTILE CO LTD
- [X] US 2003056552 A1 20030327 - ENGLEBERT STEVE R [US], et al
- [X] WO 9401198 A1 19940120 - KAERCHER GMBH & CO ALFRED [DE], et al
- [X] DE 3210070 A1 19821118 - TOYO BOSEKI [JP]

Cited by

WO2009070194A1; WO2016001198A1; US11045301B2

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1752572 A1 20070214**; **EP 1752572 B1 20100414**; AT E464412 T1 20100415; DE 102005038098 A1 20070215; DE 102005038098 B4 20100128; DE 502006006675 D1 20100527; JP 2007046222 A 20070222; JP 4423610 B2 20100303; US 2010224552 A1 20100909; US 8268736 B2 20120918

DOCDB simple family (application)

**EP 06014664 A 20060714**; AT 06014664 T 20060714; DE 102005038098 A 20050810; DE 502006006675 T 20060714; JP 2006216377 A 20060809; US 50070006 A 20060808