

Title (en)
NON-WOVEN FABRIC, NON-WOVEN FABRIC PRODUCING METHOD AND ACOUSTIC ABSORBENT

Title (de)
VLIESSTOFF, VERFAHREN ZUR HERSTELLUNG VON VLIESSTOFF UND SCHALLSCHLUCKMITTEL

Title (fr)
TISSU NON TISSÉ, PROCÉDÉ DE PRODUCTION DE TISSU NON TISSÉ ET ABSORBANT ACOUSTIQUE

Publication
EP 3243947 A1 20171115 (EN)

Application
EP 17165953 A 20170411

Priority
JP 2016095392 A 20160511

Abstract (en)
A non-woven fabric, non-woven fabric producing method and an acoustic absorbent of desirable properties are provided. The non-woven fabric is a non-woven fabric including a plurality of ultrafine fibers configured from a thermoplastic resin, and comprises: a base portion configured by entangling of some of the plurality of ultrafine fibers; and a fiber bundle configured by entangling and bundling of other ultrafine fibers in the plurality of ultrafine fibers, and that is entangled with the base portion. The fiber bundle has a lower void fraction than a void fraction of the base portion.

IPC 8 full level
D04H 1/4382 (2012.01); **D04H 1/56** (2006.01); **D04H 3/016** (2012.01); **D04H 3/16** (2006.01)

CPC (source: CN EP US)
D01D 5/0985 (2013.01 - US); **D01F 6/06** (2013.01 - US); **D04H 1/4291** (2013.01 - US); **D04H 1/43838** (2020.05 - CN EP US); **D04H 1/56** (2013.01 - EP US); **D04H 3/007** (2013.01 - US); **D04H 3/016** (2013.01 - CN EP US); **D04H 3/16** (2013.01 - EP US); **D04H 5/00** (2013.01 - CN)

Citation (applicant)
• JP 2013139655 A 20130718 - TEIJIN LTD
• JP 2013147771 A 20130801 - MITSUI CHEMICALS INC

Citation (search report)
• [X] US 2013115837 A1 20130509 - KITCHEN DALE S [US], et al
• [X] EP 0123545 A2 19841031 - TORAY INDUSTRIES [JP]
• [X] JP H0515717 A 19930126 - TOYO BOSEKI
• [A] EP 1751338 A1 20070214 - PROCTER & GAMBLE [US]
• [A] US 3972759 A 19760803 - BUNTIN ROBERT R
• [A] EP 0825287 A1 19980225 - TORAY INDUSTRIES [JP]

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EP3396039A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3243947 A1 20171115; **EP 3243947 B1 20190206**; CN 107366089 A 20171121; CN 107366089 B 20210402; JP 2017203231 A 20171116; JP 6614450 B2 20191204; US 2017327983 A1 20171116

DOCDB simple family (application)
EP 17165953 A 20170411; CN 201710263194 A 20170420; JP 2016095392 A 20160511; US 201715486385 A 20170413