

Title (en)

Wet-laid nonwoven comprising nanofibrillar cellulose and a method of manufacturing such

Title (de)

Nassgelegtes Vlies mit nanofibrillärer Cellulose und Verfahren zur Herstellung davon

Title (fr)

Non-tissé obtenu par voie humide comprenant de la cellulose nanofibrillaire et son procédé de fabrication

Publication

**EP 2781652 B1 20151223 (EN)**

Application

**EP 14160857 A 20140320**

Priority

FR 1352506 A 20130320

Abstract (en)

[origin: EP2781652A1] A wet-laid nonwoven comprising at least synthetic and/or natural fibers and nanofibrillar cellulose (NFC) in an amount of between 0.1 and 20% by dry weight compared with the dry weight of said nonwoven, the nonwoven being impregnated with the NFC for its entire thickness.

IPC 8 full level

**D21H 11/18** (2006.01); **D04H 1/00** (2006.01); **D21H 15/02** (2006.01); **D21H 17/25** (2006.01); **D21H 21/52** (2006.01)

CPC (source: EP)

**D04H 1/425** (2013.01); **D21H 11/18** (2013.01); **D21H 15/02** (2013.01); **D21H 17/25** (2013.01); **D21H 21/52** (2013.01)

Citation (opposition)

Opponent : UPM-Kymmene Corporation

- EP 2243872 A1 20101027 - BEMIS CO INC [US]
- US 2003000665 A1 20030102 - TAKAI HISASHI [JP], et al
- JP H11206611 A 19990803 - UNI CHARM CORP
- US 2003177909 A1 20030925 - KOSLOW EVAN E [US]
- JP 2013104142 A 20130530 - DAICEL CORP
- Retrieved from the Internet <URL:http://www.effibers.com/prod\_k-PVA.php>

Cited by

WO2021063957A1; CN112368139A; US10669671B2; US2015191036A1; CN114450450A; EP3690136A1; SE2051028A1; SE545733C2; US11511015B2; US11512020B2; US11692313B2; US11603612B2; JP2017538053A; US2016145779A1; US10060058B2; US2022251783A1; WO2016081392A1; WO2018171914A1; WO2017115018A1; WO2019231994A1; WO2022049483A1; US10479044B2; US10906268B2; US11858717B2; US2015167249A1; US9580873B2; US9670622B2; CN108430525A; CN109310797A; EP3930664A4; US11975910B2; US11999553B2; US11919699B2; US11940204B2; WO2022260052A1; EP3224411B1; EP3464723B1

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

DOCDB simple family (publication)

**EP 2781652 A1 20140924; EP 2781652 B1 20151223; EP 2781652 B2 20180912**; ES 2565314 T3 20160401; ES 2565314 T5 20190125; FR 3003580 A1 20140926; FR 3003580 B1 20150703

DOCDB simple family (application)

**EP 14160857 A 20140320**; ES 14160857 T 20140320; FR 1352506 A 20130320