

Title (en)
METHOD FOR STRENGTHENING A NONWOVEN FABRIC

Title (de)
VERFAHREN ZUR VERFESTIGUNG EINES FASERVliesES

Title (fr)
PROCÉDÉ POUR RENFORCER UN NON-TISSÉ

Publication
EP 2616578 A1 20130724 (DE)

Application
EP 11752567 A 20110909

Priority
• EP 10009534 A 20100914
• EP 2011065621 W 20110909
• EP 11752567 A 20110909

Abstract (en)
[origin: EP2428603A1] Solidifying a nonwoven fabric by water jet treatment is claimed, where the nonwoven fabric contains flat fibers with a ratio of width B to thickness D is of $B:D \geq 10:1$. An independent claim is also included for the spunlaced nonwoven fabric comprising flat fibers with a ratio of width B to thickness D is $B:D \geq 10:1$.

IPC 8 full level
D04H 1/46 (2012.01)

CPC (source: EP KR US)
D04H 1/425 (2013.01 - EP US); **D04H 1/4258** (2013.01 - EP KR US); **D04H 1/43912** (2020.05 - EP KR US); **D04H 1/43914** (2020.05 - EP KR US); **D04H 1/46** (2013.01 - KR); **D04H 1/492** (2013.01 - EP KR US); **D06C 29/005** (2013.01 - KR US)

Citation (search report)
See references of WO 2012034934A1

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 2428603 A1 20120314; BR 112013005857 A2 20160517; BR 112013005857 B1 20200728; CN 103080397 A 20130501; CN 103080397 B 20170426; EP 2616578 A1 20130724; EP 2616578 B1 20141112; IL 225101 A 20170529; JP 2013537263 A 20130930; KR 101889112 B1 20180816; KR 20130139859 A 20131223; US 2019194846 A1 20190627; WO 2012034934 A1 20120322

DOCDB simple family (application)
EP 10009534 A 20100914; BR 112013005857 A 20110909; CN 201180043933 A 20110909; EP 11752567 A 20110909; EP 2011065621 W 20110909; IL 22510113 A 20130307; JP 2013527615 A 20110909; KR 20137004388 A 20110909; US 201113821843 A 20110909