

Title (en)

SELF-BONDED CELLULOSIC NONWOVEN WEB AND METHOD FOR MAKING

Title (de)

SELBSTGEBONDETE CELLULOSEVLIESBAHN UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

BANDE NON TISSÉE CELLULOSIQUE AUTOCOLLANTE ET PROCÉDÉ DE FABRICATION

Publication

EP 3137668 A4 20171206 (EN)

Application

EP 15786021 A 20150416

Priority

- US 201461985028 P 20140428
- US 2015026225 W 20150416

Abstract (en)

[origin: WO2015167815A1] A self-bonded nonwoven web, at least some cellulosic fibers that are self-bonded to each other at points of intersection of the cellulosic fibers with each other; and, an ionic liquid. Methods of making such a web are also disclosed, wherein the method comprises: contacting at least some of the first, cellulosic fibers with an ionic liquid; exposing the ionic liquid and the first, cellulosic fibers to a first temperature; and exposing the ionic liquid and the first, cellulosic fibers to a second temperature that is lower than the first temperature.

IPC 8 full level

D04H 1/64 (2012.01); **D04H 1/425** (2012.01); **D04H 1/4258** (2012.01); **D04H 1/4334** (2012.01); **D04H 1/435** (2012.01); **D04H 1/587** (2012.01)

CPC (source: EP KR US)

D04H 1/425 (2013.01 - EP KR US); **D04H 1/4258** (2013.01 - EP US); **D04H 1/4334** (2013.01 - US); **D04H 1/435** (2013.01 - US); **D04H 1/54** (2013.01 - EP US); **D04H 1/587** (2013.01 - EP KR US); **D04H 1/64** (2013.01 - KR); **D04H 1/641** (2013.01 - US); **D10B 2201/01** (2013.01 - US); **D10B 2331/02** (2013.01 - US); **D10B 2331/04** (2013.01 - US)

Citation (search report)

- [X] US 8202379 B1 20120619 - DELONG HUGH C [US], et al
- [X] WO 2012021146 A1 20120216 - H & C SCIENT RESOURCES INTERNATIONAL LLC [US], et al
- [A] US 3718537 A 19730227 - KAWAI A, et al
- See references of WO 2015167815A1

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)

WO 2015167815 A1 20151105; BR 112016025238 A2 20170815; CN 106460272 A 20170222; EP 3137668 A1 20170308; EP 3137668 A4 20171206; JP 2017514033 A 20170601; KR 20160146870 A 20161221; US 2017051443 A1 20170223

DOCDB simple family (application)

US 2015026225 W 20150416; BR 112016025238 A 20150416; CN 201580022886 A 20150416; EP 15786021 A 20150416; JP 2016563200 A 20150416; KR 20167032217 A 20150416; US 201515307315 A 20150416