

Title (en)

BI-COMPONENT FIBERS AND NONWOVEN MATERIALS PRODUCED THEREFROM

Title (de)

ZWEIKOMPONENTENFASERN UND DARAUS HERGESTELLTE VLIESTOFFE

Title (fr)

FIBRES À DEUX COMPOSANTS ET MATÉRIAUX NON TISSÉS PRODUITS A PARTIR DESDITES FIBRES

Publication

**EP 3853401 A4 20230419 (EN)**

Application

**EP 19862229 A 20190830**

Priority

- US 201862732599 P 20180918
- EP 18199603 A 20181010
- US 2019048978 W 20190830

Abstract (en)

[origin: WO2020060747A1] A method can include (a) extruding a bi-component fiber comprising: a first component comprising a first polypropylene homopolymer; and a second component comprising a blend that comprises a propylene-based elastomer and a second polypropylene homopolymer, wherein the blend has a melt flow rate that is at least 20% greater than or at least 20% less than a melt flow rate of the first polypropylene homopolymer; (b) cooling the bi-component fiber; and (c) thermally and/or mechanically activating the bi-component fiber to cause the bi-component fiber to curl.

IPC 8 full level

**D01D 5/098** (2006.01); **D01D 5/22** (2006.01); **D01F 6/06** (2006.01); **D01F 8/06** (2006.01); **D04H 1/4291** (2012.01); **D04H 1/4382** (2012.01); **D04H 1/4391** (2012.01); **D04H 3/007** (2012.01); **D04H 3/018** (2012.01); **D04H 3/147** (2012.01)

CPC (source: EP)

**D01D 5/0985** (2013.01); **D01D 5/22** (2013.01); **D01F 6/06** (2013.01); **D04H 1/4291** (2013.01); **D04H 1/4382** (2013.01); **D04H 1/4391** (2013.01); **D04H 3/007** (2013.01); **D04H 3/018** (2013.01); **D04H 3/147** (2013.01)

Citation (search report)

- [IAY] EP 1129247 A1 20010905 - KIMBERLY CLARK CO [US]
- [YA] JP H11323715 A 19991126 - MITSUI CHEMICALS INC
- [A] US 6723669 B1 20040420 - CLARK DARRYL FRANKLIN [US], et al
- [A] JP 2011021300 A 20110203 - DAIWABO HOLDINGS CO LTD, et al
- [A] EP 2559793 A1 20130220 - MITSUI CHEMICALS INC [JP]
- See references of WO 2020060747A1

Designated contracting state (EPC)

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