

Title (en)

NON-ROUND SOLUTION SPUN SPANDEX FILAMENTS AND METHODS AND DEVICES FOR PRODUCTION THEREOF

Title (de)

UNRUNDE LÖSUNGSGESPONNENE SPANDEXFASERN SOWIE VERFAHREN UND VORRICHTUNGEN ZUR HERSTELLUNG DAVON

Title (fr)

FILAMENTS D'ÉLASTHANNE FILÉS EN SOLUTION NON ARRONDIS ET LEURS PROCÉDÉS ET DISPOSITIFS DE PRODUCTION

Publication

EP 3458631 A1 20190327 (EN)

Application

EP 17725127 A 20170515

Priority

- US 201662339312 P 20160520
- US 2017032595 W 20170515

Abstract (en)

[origin: WO2017200900A1] Non-round or shaped solution spun spandex filaments as well as methods and devices for production of these non-round or shaped solution spun spandex filaments are provided.

IPC 8 full level

D01D 4/02 (2006.01); **D01D 5/04** (2006.01); **D01D 5/253** (2006.01); **D01F 6/70** (2006.01)

CPC (source: EP KR US)

D01D 4/02 (2013.01 - EP KR US); **D01D 5/04** (2013.01 - EP KR US); **D01D 5/253** (2013.01 - EP KR US); **D01F 6/70** (2013.01 - EP KR US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017200900 A1 20171123; BR 112018073755 A2 20190820; CN 109563643 A 20190402; CN 109563643 B 20220617; EP 3458631 A1 20190327; JP 2019516877 A 20190620; JP 2022031796 A 20220222; JP 7216177 B2 20230131; KR 102445642 B1 20220921; KR 20190020656 A 20190304; TW 201805496 A 20180216; US 2019284721 A1 20190919; US 2022195626 A1 20220623

DOCDB simple family (application)

US 2017032595 W 20170515; BR 112018073755 A 20170515; CN 201780031288 A 20170515; EP 17725127 A 20170515; JP 2018560801 A 20170515; JP 2021191662 A 20211126; KR 20187033609 A 20170515; TW 106116559 A 20170519; US 201716301504 A 20170515; US 202217579143 A 20220119