

Title (en)

HIGH LOAD BEARING CAPACITY NYLON STAPLE FIBERS WITH ADDITIVE, AND BLENDED YARNS AND FABRICS THEREOF

Title (de)

NYLON-STAPELFASERN MIT HOHER LASTKAPAZITÄT MIT ADDITIVEN, UND GEMISCHTEN GARNEN UND GEWEBEN DAVON

Title (fr)

FIBRES EN NYLON DISCONTINUES DE CAPACITÉ DE CHARGE ÉLEVÉE AVEC ADDITIFS, FILS MELANGES ET LEURS TISSÉES

Publication

**EP 3697953 B1 20231011 (EN)**

Application

**EP 18807746 A 20181018**

Priority

- US 201762575091 P 20171020
- US 2018056492 W 20181018

Abstract (en)

[origin: WO2019079584A1] Nylon staple fiber with additive exhibiting a break tenacity greater than 6.5 g/den are provided as well as yarns, fabrics and other articles of manufacture produced from the fiber. Methods for producing the nylon staple fiber with additive are also provided.

IPC 8 full level

**D02G 3/04** (2006.01); **D01F 1/02** (2006.01); **D01F 1/04** (2006.01); **D01F 1/10** (2006.01); **D01F 6/60** (2006.01); **D04H 1/549** (2012.01)

CPC (source: EP KR US)

**D01D 5/088** (2013.01 - KR); **D01D 5/26** (2013.01 - KR); **D01D 10/02** (2013.01 - KR); **D01F 1/02** (2013.01 - EP); **D01F 1/04** (2013.01 - EP KR US); **D01F 1/07** (2013.01 - KR); **D01F 1/10** (2013.01 - EP US); **D01F 1/106** (2013.01 - KR); **D01F 6/60** (2013.01 - EP KR US); **D01F 6/80** (2013.01 - KR); **D02G 3/04** (2013.01 - EP KR US); **D04H 1/549** (2013.01 - EP KR US); **D10B 2331/02** (2013.01 - US); **D10B 2401/04** (2013.01 - US); **D10B 2401/063** (2013.01 - US)

Citation (examination)

- US 2013059495 A1 20130307 - DEMPSTER DAVID S [CA], et al
- US 2012278979 A1 20121108 - UNDERWOOD JOEY K [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2019079584 A1 20190425**; BR 112020007709 A2 20201020; CN 111225998 A 20200602; CN 111225998 B 20230124; EP 3697953 A1 20200826; EP 3697953 B1 20231011; JP 2021500483 A 20210107; JP 7242664 B2 20230320; KR 20200068656 A 20200615; MX 2020003277 A 20200720; US 2020283933 A1 20200910

DOCDB simple family (application)

**US 2018056492 W 20181018**; BR 112020007709 A 20181018; CN 201880067935 A 20181018; EP 18807746 A 20181018; JP 2020521928 A 20181018; KR 20207009281 A 20181018; MX 2020003277 A 20181018; US 201816753349 A 20181018