

Title (en)

HIGH-STRENGTH POLYETHYLENE TEREPHTHALATE YARN AND METHOD FOR PRODUCING THE SAME

Title (de)

HOCHFESTES POLYETHYLENTEREPHTHALATGARN UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

FIBRE DE POLYÉTHYLÈNE TÉRÉPHTALATE À RÉSISTANCE ÉLEVÉE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 3686326 A4 20211006 (EN)**

Application

**EP 18858587 A 20180903**

Priority

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Abstract (en)

[origin: EP3686326A1] Disclosed are a PET fiber having an intrinsic viscosity of 1.1 dl/g or higher and a tensile strength of 10 g/d or higher, and a manufacturing method therefor. A manufacturing method according to the present invention includes the steps of: melting a polyethylene terephthalate chip having an intrinsic viscosity of 1.4 to 1.7 dl/g to prepare a spinning melt; discharging the spinning melt through a nozzle of a spinning pack; heating the spinning melt just before being discharged from the nozzle by means of a heat source of 300 to 500 °C located immediately below the nozzle; converging a plurality of filaments formed by the discharging to form a multifilament; and drawing the multifilament, wherein a temperature of the spinning pack is maintained at 280 to 305 °C.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [XYI] EP 1845177 A2 20071017 - HYOSUNG CORP [KR]
- [X] KR 101575837 B1 20151222
- [Y] KR 20170090636 A 20170808 - KOLON INC [KR]
- See references of WO 2019059560A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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**EP 18858587 A 20180903**; CN 201880061237 A 20180903; JP 2020531410 A 20180903; JP 2021086074 A 20210521; KR 2018010211 W 20180903; KR 20180104442 A 20180903; US 201816640771 A 20180903