

Title (en)

POLY(ETHYLENETEREPHTHALATE) DRAWN FIBER, TIRE-CORD, AND METHOD OF MANUFACTURING THE
POLY(ETHYLENETEREPHTHALATE) DRAWN FIBER AND THE TIRE-CORD

Title (de)

GEZOGENE POLY(ETHYLENTEREPHTHALAT)FASER , REIFENCORD SOWIE HERSTELLUNGSVERFAHREN FÜR DIE GEZOGENE
POLY(ETHYLENTEREPHTHALAT-) FASER UND REIFENCORD

Title (fr)

FIBRE ÉTIRÉE DE POLY(TÉRÉPHTALATE D'ÉTHYLÈNE), CÂBLE POUR PNEU ET LEUR PROCÉDÉ DE FABRICATION

Publication

EP 2660370 A2 20131106 (EN)

Application

EP 11853427 A 20111228

Priority

- KR 20100138191 A 20101229
- KR 2011010237 W 20111228

Abstract (en)

The present invention relates to a drawn poly(ethyleneterephthalate) (PET) fiber exhibiting excellent dimensional stability and uniform properties while having high fineness of 2000 denier or more, a tire cord, and their preparation method. The drawn PET fiber includes PET 90 mol% or more, and has a crystallinity of 40 to 50%, an amorphous orientation factor (AOF) of 0.01 to 0.2, a monofilament fineness of 2.5 to 4.0 denier, a coefficient of variation (CV) of cross sectional area of 8.0 % or less, and a total fineness of 2000 to 4000 denier.

IPC 8 full level

D01D 5/08 (2006.01); **D01F 6/62** (2006.01); **D02G 3/48** (2006.01); **D02J 1/22** (2006.01)

CPC (source: EP US)

D01D 5/088 (2013.01 - EP US); **D01D 5/12** (2013.01 - EP US); **D01F 6/62** (2013.01 - EP US); **D02G 3/48** (2013.01 - EP US);
D02J 1/22 (2013.01 - EP US); **D10B 2331/04** (2013.01 - EP US); **Y10T 428/298** (2015.01 - EP US)

Cited by

EP3266625A4; EP3266626A4; US10589578B2; US10589570B2

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)

EP 2660370 A2 20131106; **EP 2660370 A4 20140611**; **EP 2660370 B1 20190306**; CN 103282561 A 20130904; CN 103282561 B 20151125;
JP 2014504338 A 20140220; JP 5802761 B2 20151104; KR 20120076324 A 20120709; US 2013302610 A1 20131114;
WO 2012091455 A2 20120705; WO 2012091455 A3 20121018

DOCDB simple family (application)

EP 11853427 A 20111228; CN 201180063845 A 20111228; JP 2013546044 A 20111228; KR 2011010237 W 20111228;
KR 20110144493 A 20111228; US 201113997733 A 20111228