

Title (en)  
POLYURETHANE-NYLON 6 ECCENTRIC SHEATH-CORE CONJUGATE FIBER

Title (de)  
POLYURETHAN-NYLON-6-EXZENTERMANTEL-KERN-KONJUGATFASER

Title (fr)  
FIBRE CONJUGUÉE ÂME-GAINE EXCENTRIQUE EN POLYURÉTHANE-NYLON 6

Publication  
**EP 3643817 A4 20210317 (EN)**

Application  
**EP 18820560 A 20180615**

Priority  
• JP 2017123316 A 20170623  
• JP 2018023038 W 20180615

Abstract (en)  
[origin: EP3643817A1] The purpose of the present invention is to provide a polyurethane-nylon 6 eccentric sheath-core conjugate fiber which can obtain an excellent soft stretchable woven/knitted fabric and ensure the appearance quality of stockings. The present invention relates to an eccentric sheath-core conjugate fiber being characterized by having: (1) a core component of a thermoplastic polyurethane; and (2) a sheath component of nylon 6, wherein the curvature of a cross section is 15% or less and the CV value of the curvature of a cross section is 0.40 or less.

IPC 8 full level  
**D01F 8/12** (2006.01); **A41B 11/14** (2006.01); **D01D 5/22** (2006.01); **D01D 5/34** (2006.01); **D01F 8/16** (2006.01)

CPC (source: EP KR)  
**A41B 11/14** (2013.01 - KR); **D01D 5/22** (2013.01 - EP); **D01D 5/34** (2013.01 - EP KR); **D01F 8/12** (2013.01 - EP KR); **D01F 8/16** (2013.01 - EP KR); **D03D 15/283** (2021.01 - KR); **D03D 15/47** (2021.01 - KR); **D03D 15/56** (2021.01 - KR); **D04B 1/26** (2013.01 - KR); **D04B 21/207** (2013.01 - KR); **D10B 2331/02** (2013.01 - KR); **D10B 2331/10** (2013.01 - KR); **D10B 2501/021** (2013.01 - KR)

Citation (search report)  
[X] JP S5285512 A 19770715 - TORAY INDUSTRIES

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 3643817 A1 20200429**; **EP 3643817 A4 20210317**; **EP 3643817 B1 20240710**; CN 110799681 A 20200214; CN 110799681 B 20220315; JP 7074062 B2 20220524; JP WO2018235754 A1 20200416; KR 102542862 B1 20230614; KR 20200020716 A 20200226; TW 201907061 A 20190216; TW I761538 B 20220421; WO 2018235754 A1 20181227

DOCDB simple family (application)  
**EP 18820560 A 20180615**; CN 201880041675 A 20180615; JP 2018023038 W 20180615; JP 2018539443 A 20180615; KR 20197037572 A 20180615; TW 107121435 A 20180622