

Title (en)  
MODIFIED POLYESTER FIBER, OPAL FINISHED WOVEN AND KNITTED FABRIC CONTAINING THE FIBER, AND METHOD FOR PRODUCING SAME

Title (de)  
MODIFIZIERTE POLYESTERFASER, VLIES- UND GEWIRKSTOFF MIT MATTER OBERFLÄCHE MIT DER FASER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
FIBRE DE POLYESTER MODIFIÉ, TISSU TISSÉ ET TRICOTÉ À FINITION OPALE CONTENANT LA FIBRE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 3323913 A1 20180523 (EN)**

Application  
**EP 15898335 A 20151106**

Priority  
• JP 2015141163 A 20150715  
• JP 2015081399 W 20151106

Abstract (en)  
As a fiber for weight reduction, a modified polyester fiber, which is obtained by copolymerizing: ethylene terephthalate as a main constitutional unit; equal to or more than 12 mol% and equal to or less than 25 mol% of an aliphatic dicarboxylic acid having equal to or more than 4 and equal to or less than 8 carbon atoms; and equal to or more than 2 mol% and equal to or less than 5 mol% of a metal sulfonate group-containing aromatic dicarboxylic acid, is used. This modified polyester fiber has a single fiber fineness of equal to or more than 0.6 dtex and equal to or less than 3.5 dtex. A mixed woven or knitted fabric composed of two or more types of fibers, which are the modified polyester fiber, a regular polyester fiber, and optionally, a polyurethane fiber, is capable of exhibiting good etching finish properties by using an etching finish agent that contains an etching finish accelerator, for example, a Mei printer OP-2 (manufactured by Meisei Chemical Works, Ltd.) and sodium carbonate, and also exhibits low reduction in strength of non-etching finished parts.

IPC 8 full level  
**D01F 6/84** (2006.01); **D06Q 1/02** (2006.01)

CPC (source: EP US)  
**D01F 6/84** (2013.01 - EP US); **D03D 15/56** (2021.01 - EP US); **D04B 21/18** (2013.01 - EP US); **D06Q 1/02** (2013.01 - EP US); **D06P 5/001** (2013.01 - US); **D10B 2331/04** (2013.01 - EP US)

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3323913 A1 20180523**; **EP 3323913 A4 20180711**; JP 2017020147 A 20170126; JP 6515715 B2 20190522; TW 201702444 A 20170116; TW I612190 B 20180121; US 2018209074 A1 20180726; WO 2017010024 A1 20170119

DOCDB simple family (application)  
**EP 15898335 A 20151106**; JP 2015081399 W 20151106; JP 2015141163 A 20150715; TW 104136397 A 20151105; US 201515743429 A 20151106