

Title (en)
POLYPHENYLENE SULFIDE FIBER AND PROCESS FOR PRODUCING THE SAME

Title (de)
POLYPHENYLENSULFIDFASER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
FIBRE DE POLY(SULFURE DE PHÉNYLÈNE) ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2246463 A1 20101103 (EN)

Application
EP 08870062 A 20081225

Priority
• JP 2008073521 W 20081225
• JP 2008002082 A 20080109

Abstract (en)
[Abstract] The object of the invention is to provide a polyphenylene sulfide fiber with a large single-filament fineness that does not require special production equipment and serves as industrial material for uses where high rigidity is needed, and also provides a low-cost process to produce said polyphenylene sulfide fiber with high spinnability. A polyphenylene sulfide fiber with a single-filament fineness of 10 to 50 dtex and a tenacity of 4.5 to 6 cN/dtex. A polyphenylene sulfide fiber production method wherein an aqueous lubricant is attached to the surface up to 0.1 to 1 wt% and subsequently an anhydrous lubricant is attached to the surface so that the total weight of the surface-attached oil will account for 0.5 to 2 wt%.

IPC 8 full level
D01D 5/096 (2006.01); **D01D 5/16** (2006.01); **D01F 6/76** (2006.01)

CPC (source: EP US)
D01D 5/096 (2013.01 - EP US); **D01D 5/16** (2013.01 - EP US); **D01F 6/765** (2013.01 - EP US); **Y10T 428/298** (2015.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2246463 A1 20101103; **EP 2246463 A4 20110831**; **EP 2246463 B1 20170322**; CN 101960058 A 20110126; CN 101960058 B 20120627; JP 2009185438 A 20090820; JP 2012246599 A 20121213; JP 5251490 B2 20130731; US 2010285315 A1 20101111; WO 2009087901 A1 20090716

DOCDB simple family (application)
EP 08870062 A 20081225; CN 200880127903 A 20081225; JP 2008073521 W 20081225; JP 2008327183 A 20081224; JP 2012206862 A 20120920; US 81206208 A 20081225