

Title (en)

ACRYLIC FIBERS, METHOD FOR MANUFACTURING SAME, AND SPUN YARN AND KNITTED FABRIC USING SAID FIBERS

Title (de)

ACRYLFASERN, VERFAHREN ZUR HERSTELLUNG DAVON UND SPINNGARN UND MASCHENWARE MIT DEN BESAGTEN FASERN

Title (fr)

FIBRES ACRYLIQUES, PROCÉDÉ POUR DE FABRICATION DE CES DERNIÈRES, AINSI QUE FILÉ ET TISSU TRICOTÉ FAISANT APPEL AUXDITES FIBRES

Publication

EP 3138940 A1 20170308 (EN)

Application

EP 15786320 A 20150428

Priority

- JP 2014093278 A 20140430
- JP 2015062863 W 20150428

Abstract (en)

Provided are: acrylic fibers having 2-7% boiling water shrinkage and formed by the side-by-side conjugation of a copolymer A, which contains 5-10 mass% of an unsaturated monomer that can form a copolymer with acrylonitrile units, and a copolymer B, which contains 2-5 mass% of unsaturated monomer units that can form a copolymer with acrylonitrile units and 0.2-1.5 mass% of sulfonic acid group-containing monomer units; a method for manufacturing said fibers; a spun yarn containing said fibers; and a knitted fabric obtained from said spun yarn. The single fiber fineness of the heat-treated acrylic fibers is 1.7-6.6 dtex, the bulkiness is at least 380 cm³/g, the percentage of crimp is at least 15%, and the product (DKSDKE) of the knot strength (cN/dtex) and the knot elongation (%) is 10-25. The acrylic fibers have excellent crimp characteristics and anti-pilling properties.

IPC 8 full level

D01F 8/08 (2006.01); **D01D 1/02** (2006.01); **D01D 5/06** (2006.01); **D01D 5/32** (2006.01); **D02G 1/00** (2006.01); **D02G 3/04** (2006.01); **D02J 1/22** (2006.01); **D04B 1/20** (2006.01)

CPC (source: EP US)

D01D 1/02 (2013.01 - US); **D01D 5/06** (2013.01 - US); **D01D 5/22** (2013.01 - EP US); **D01D 5/32** (2013.01 - US); **D01F 8/08** (2013.01 - EP US); **D02G 1/004** (2013.01 - US); **D02G 3/045** (2013.01 - US); **D02J 1/22** (2013.01 - EP US); **D02J 1/228** (2013.01 - EP US); **D04B 1/20** (2013.01 - US); **D10B 2401/046** (2013.01 - US); **D10B 2401/061** (2013.01 - US); **D10B 2401/16** (2013.01 - US)

Cited by

CN107675346A

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 3138940 A1 20170308; **EP 3138940 A4 20170426**; CN 106460242 A 20170222; JP 6065976 B2 20170125; JP WO2015166956 A1 20170420; US 2017044693 A1 20170216; WO 2015166956 A1 20151105

DOCDB simple family (application)

EP 15786320 A 20150428; CN 201580022144 A 20150428; JP 2015062863 W 20150428; JP 2015523315 A 20150428; US 201515307053 A 20150428