

Title (en)
HIGH STRENGTH FABRICS CONSISTING OF THIN GAUGE CONSTANT COMPRESSION ELASTIC FIBERS

Title (de)
HOCHFESTE STOFFE AUS DÜNNEN ELASTISCHEN FASERN MIT KONSTANTER KOMPRESSION

Title (fr)
TISSU HAUTE RÉSISTANCE COMPOSÉ DE FIBRES ÉLASTIQUES FINES À COMPRESSION CONSTANTE

Publication
EP 2446073 B1 20131218 (EN)

Application
EP 10729020 A 20100624

Priority
• US 2010039773 W 20100624
• US 22035709 P 20090625

Abstract (en)
[origin: US2010325782A1] Elastic fibers are disclosed which have a relatively flat modulus curve at between 100% and 200% elongation. The fibers can be made into garments having a very comfortable feel. The preferred elastic fibers are made from thermoplastic polyurethane polymers and are made by a unique melt spinning process where the fiber is wound into bobbins at a speed just slightly higher than the melt velocity of the polymer exiting the spinneret.

IPC 8 full level
D01D 5/08 (2006.01); **D01F 6/00** (2006.01); **D01F 6/70** (2006.01); **D03D 15/283** (2021.01); **D03D 15/56** (2021.01); **D03D 15/593** (2021.01)

CPC (source: CN EP KR US)
D01D 5/08 (2013.01 - KR); **D01D 5/16** (2013.01 - EP KR US); **D01F 6/70** (2013.01 - CN EP KR US); **D02G 3/02** (2013.01 - KR); **D02G 3/32** (2013.01 - KR); **D02G 3/44** (2013.01 - KR); **D03D 1/0017** (2013.01 - KR); **D03D 15/00** (2013.01 - CN); **D03D 15/56** (2021.01 - KR); **D04B 1/14** (2013.01 - CN); **D04B 21/00** (2013.01 - CN); **D10B 2331/10** (2013.01 - KR); **D10B 2401/061** (2013.01 - KR); **D10B 2501/02** (2013.01 - KR); **Y10T 428/249921** (2015.04 - EP US); **Y10T 428/298** (2015.01 - 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 SE SI SK SM TR

DOCDB simple family (publication)
US 2010325782 A1 20101230; AU 2010264444 A1 20111222; AU 2010264444 B2 20170316; AU 2017201591 A1 20170330; AU 2017201591 B2 20180809; BR PI1015425 A2 20160419; BR PI1015425 B1 20201027; CA 2765405 A1 20101229; CA 2765405 C 20180619; CN 102803586 A 20121128; CN 102803586 B 20160217; CN 104831377 A 20150812; CN 105696101 A 20160622; CN 105696101 B 20190716; EP 2446073 A1 20120502; EP 2446073 B1 20131218; EP 2594667 A1 20130522; EP 2594667 B1 20150114; EP 2883983 A1 20150617; JP 2012531533 A 20121210; JP 2015025235 A 20150205; JP 2016113741 A 20160623; JP 2018024973 A 20180215; JP 5717733 B2 20150513; KR 101733649 B1 20170524; KR 101799924 B1 20171121; KR 20120102578 A 20120918; KR 20160110560 A 20160921; MX 2011014050 A 20120420; MY 154572 A 20150630; MY 179095 A 20201027; SG 10201402444Y A 20141030; SG 176815 A1 20120130; TW 201114959 A 20110501; TW 201632664 A 20160916; TW I523980 B 20160301; TW I591221 B 20170711; US 2017029982 A1 20170202; WO 2010151633 A1 20101229

DOCDB simple family (application)
US 82244110 A 20100624; AU 2010264444 A 20100624; AU 2017201591 A 20170308; BR PI1015425 A 20100624; CA 2765405 A 20100624; CN 201080027998 A 20100624; CN 201510244031 A 20100624; CN 201610074529 A 20100624; EP 10729020 A 20100624; EP 13155264 A 20100624; EP 15150781 A 20100624; JP 2012517718 A 20100624; JP 2014216132 A 20141023; JP 2016013412 A 20160127; JP 2017212827 A 20171102; KR 20127001956 A 20100624; KR 20167024936 A 20100624; MX 2011014050 A 20100624; MY PI2011006097 A 20100624; MY PI2014001890 A 20111215; SG 10201402444Y A 20100624; SG 2011092004 A 20100624; TW 105103262 A 20100624; TW 99120581 A 20100624; US 2010039773 W 20100624; US 201615255258 A 20160902