

Title (en)
COARSE TITER ELASTANE AND WET SPINNING METHOD FOR PRODUCING THE SAME

Title (de)
ELASTANE MIT GROBEM TITER UND NASSSPINNVERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
ELASTHANE A GROS TITRE ET PROCEDE DE FILAGE AU MOUILLE POUR LE PRODUIRE

Publication
EP 1095177 A1 20010502 (DE)

Application
EP 99929247 A 19990617

Priority

- DE 19829063 A 19980630
- EP 9904180 W 19990617

Abstract (en)
[origin: US2003203197A1] Described are a process for producing elastane yarn having a linear density of at least 2500 dtex by the wet spinning process and the thereby producible coarse linear density elastane yarn having a wide cross section and a low residual solvent content. The process comprises the steps of spinning an up to 35% strength by weight stable-viscosity elastane solution into a coagulation bath, washing and optionally drawing, drying by contact heating, setting, spin finishing and winding the yarn, the filaments leaving the coagulation bath passing around a diverting roller disposed just above the coagulation bath liquid, the as-spun filament linear density amounting to not more than 1% of the value of the final linear density, the jet stretch ratio being within the range from 0.5 to 50, the contact heating temperature being at least 220° C. and the contact time of the elastane yarn being at least 2 seconds.

IPC 1-7
D01F 6/70

IPC 8 full level
D01F 6/70 (2006.01)

CPC (source: EP KR US)
D01F 6/70 (2013.01 - EP KR US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 428/2967** (2015.01 - EP US)

Citation (search report)
See references of WO 0000682A1

Designated contracting state (EPC)
DE ES FR GB IT NL SE

DOCDB simple family (publication)
US 2003203197 A1 20031030; US 6844060 B2 20050118; AR 019169 A1 20011226; AR 035558 A2 20040616; AU 4611999 A 20000117; BR 9911695 A 20010320; CA 2336014 A1 20000106; DE 19829063 A1 20000105; EP 1095177 A1 20010502; IL 139989 A0 20020210; IL 139989 A 20050725; JP 2002519529 A 20020702; KR 20010072655 A 20010731; TW 491915 B 20020621; US 6602453 B1 20030805; WO 0000682 A1 20000106

DOCDB simple family (application)
US 42545703 A 20030429; AR P000104388 A 20000824; AR P990103109 A 19990628; AU 4611999 A 19990617; BR 9911695 A 19990617; CA 2336014 A 19990617; DE 19829063 A 19980630; EP 9904180 W 19990617; EP 99929247 A 19990617; IL 13998999 A 19990617; JP 2000557029 A 19990617; KR 20007015033 A 20001229; TW 88110142 A 19990617; US 72070800 A 20001229