

Title (en)
Core spun yarn and woven stretch fabric

Title (de)
Core-Spun-Garn und gewebter elastischer Stoff

Title (fr)
Fil guipé et tissu extensible tissé

Publication
EP 2006422 A1 20081224 (EN)

Application
EP 07114713 A 20070821

Priority
US 82069507 A 20070620

Abstract (en)
A core spun yarn comprising a bi-component polyester filament and an elastomeric fiber. The polyester filament has a denier from about 20 to about 150 and the elastomeric fiber has a denier from 20 to 140. The polyester filament is about 2 weight percent to about 60 weight percent, based on total weight of the yarn and the elastomeric fiber is from about 1 percent to about 40 percent, based on total weight of the yarn. The elastomeric fiber may have higher draft than the bi-component polyester fiber. The polyester filament comprises poly (trimethylene terephthalate) and at least one polymer selected from the group consisting of poly (ethylene terephthalate) and poly (tetramethylene terephthalate) and said elastomeric fiber is spandex. The yarn may include a sheath of at least one staple fiber. The disclosure also includes a fabric of the bi-component polyester filament and an elastomeric fiber.

IPC 8 full level
D01F 8/14 (2006.01); **D02G 3/32** (2006.01); **D03D 15/56** (2021.01)

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Citation (search report)
• [X] US 2007135009 A1 20070614 - LIAO TIANYI [US]
• [DA] US 2006179810 A1 20060817 - LIAO TIANYI [US]

Cited by
WO2011003452A1; CN102704120A; CN103388208A; CN103233307A; CN103243470A; CH711736A1; EP3358053A1; EP3452647A4; KR102657892B1; CN111534900A; CN112410964A; KR20160070114A; EP3058124A4; WO2015081592A1; EP3540105A1; US10704168B2; US11499251B2; WO2016135211A3; WO2009141469A1; WO2021083527A1

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