Title (en)

POLYESTER DIFFERENTIAL SHRINKAGE BLENDED WOVEN YARN AND PROCESS FOR PRODUCING THE SAME

Title (de)

DIFFERENZIERT SCHRUMPFENDES POLYESTERMISCHGARN UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

FIL POLYESTER TISSE MIXTE A RETRAIT DIFFERENTIEL ET PROCEDE DE FABRICATION ASSOCIE

Publication

EP 1703004 A4 20090121 (EN)

Application

EP 04808170 A 20041227

Priority

- JP 2004019820 W 20041227
- JP 2004002757 A 20040108

Abstract (en)

[origin: EP1703004A1] A polyester combined filament yarn composed of a self-extending polyester multifilament yarn A and a heat-shrinkable polyester multifilament yarn B, wherein the polyester multifilament yarn A comprises a core portion and a plurality of fin portions protruding in a radial fashion from the core portion along the lengthwise direction of the core portion, and the following conditions (a) to (c) are simultaneously satisfied. (a) ## 1 / 20 #¤ S B / S A #¤ 1 / 3 (b) ## 0.6 #¤ L B / D A #¤ 3.0 (c) ## W B / D A #¤ 1 / 4 (where S A represents the cross-sectional area of the core portion, D A represents the diameter of the core portion when the cross-section is a circle and the circumscribed circle diameter when it is not a circle, and S B , L B and W B represent the cross-sectional area, maximum length and maximum width, respectively, of the fin portions.)

IPC 8 full level

D02G 3/04 (2006.01); **D01F 6/62** (2006.01); **D01F 8/14** (2006.01); **D02G 3/02** (2006.01); **D02G 3/32** (2006.01); **D02J 1/08** (2006.01)

CPC (source: EP KR US)

D01F 6/62 (2013.01 - KR); **D01F 8/14** (2013.01 - EP US); **D02G 3/02** (2013.01 - KR); **D02G 3/04** (2013.01 - KR); **D02G 3/32** (2013.01 - EP US); **D02J 1/08** (2013.01 - EP KR US)

Citation (search report)

- [XA] EP 0758027 A1 19970212 - TEIJIN LTD [JP]
- [A] US 4965919 A 19901030 - FUJITA TAKAYOSHI [JP], et al
- See references of WO 2005071149A1

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DE FR GB IT

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 04808170 A 20041227; CA 2552861 A 20041227; CN 200480040040 A 20041227; JP 2004019820 W 20041227; JP 2005517211 A 20041227; KR 20067015697 A 20060803; RU 2006128733 A 20041227; TW 94100163 A 20050104; US 58530804 A 20041227