

Title (en)

Stabilized polyurethane modified polyester forming fabric.

Title (de)

Stabilisiertes Papiermaschinenewebe aus mit Polyurethan modifiziertem Polyester.

Title (fr)

Toile stabilisée pour machine de fabrication de papier en polyester modifié avec le polyuréthane.

Publication

EP 0387395 A2 19900919 (EN)

Application

EP 89115192 A 19890817

Priority

US 32461489 A 19890317

Abstract (en)

This invention discloses a paper-maker's forming fabric wherein some of the yarns are melt-extruded monofilaments, that are a blend of 60 to 90% by weight of a polyethylene terephthalate, together with 40 to 10% by weight of a thermoplastic polyurethane, which may be an ester or ether-based type. Additionally, it is contemplated that the blend may contain up to 5% by weight of a hydrolysis stabilizer. The high abrasion resistance of these blended monofilaments makes them particularly advantageous for use in replacing the nylon-6 and nylon-66 monofilaments currently used in paper machine forming fabrics. The monofilaments disclosed comprising blends of polyethylene terephthalate and thermoplastic polyurethane are also a feature of this invention.

IPC 1-7

D01F 6/92; **D21F 1/00**

IPC 8 full level

D01F 6/92 (2006.01); **D21F 1/00** (2006.01)

CPC (source: EP)

D01F 6/92 (2013.01); **D21F 1/0027** (2013.01)

Cited by

WO2015192932A1; EP0735166A3; US6033777A; CN106232883A; CN114016147A; DE19648884A1; EP0674029A1; US5700881A; WO9526432A1; WO0056957A1; WO9915047A1; WO9303221A1; DE102007009118A1; EP1961845A2; DE102007009117A1; EP1961844A2; EP0844320B1; DE102014009238A1; US10793975B2; DE102007009119A1; US7825174B2; EP1961846A2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0387395 A2 19900919; **EP 0387395 A3 19910925**; **EP 0387395 B1 19941207**; **EP 0387395 B2 20010103**; AT E115211 T1 19941215; DE 68919827 D1 19950119; DE 68919827 T2 19950427; DE 68919827 T3 20010517; ES 2064400 T3 19950201; ES 2064400 T5 20010301

DOCDB simple family (application)

EP 89115192 A 19890817; AT 89115192 T 19890817; DE 68919827 T 19890817; ES 89115192 T 19890817