

Title (en)

POLYETHER ESTER ELASTIC FIBER AND FABRICS AND CLOTHES MADE BY USING THE SAME

Title (de)

POLYETHERESTERELASTOFIBER SOWIE DAMIT HERGESTELLTE TEXTILE FLÄCHENGEBILDE UND KLEIDUNGSSTÜCKE

Title (fr)

FIBRE ELASTIQUE D'ESTER DE POLYETHER ET TISSUS ET VETEMENTS EN ETANT FAITS

Publication

EP 1643019 A4 20070905 (EN)

Application

EP 04746409 A 20040618

Priority

- JP 2004008940 W 20040618
- JP 2003175788 A 20030620
- JP 2003329584 A 20030922

Abstract (en)

[origin: EP1643019A1] A polyether ester elastic fiber comprising a polyether ester elastomer containing polybutylene terephthalate as a hard segment and polyoxyethylene glycol as a soft segment and copolymerized with a specific metal organic sulfonate, having a coefficient of moisture absorption of not less than 5 % at 35° C and at a RH of 95 % and a coefficient of water absorption extension of not less than 10 %. The above-mentioned polyether ester elastic fiber has a good moisture-absorbing property, and is reversibly largely expanded or contracted by the absorption or release of water. Therefore, a fabric giving excellent comfortableness can be obtained from said elastic fibers, and can be recycled.

IPC 8 full level

D01F 6/86 (2006.01); **D03D 15/56** (2021.01)

CPC (source: EP KR US)

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Citation (search report)

- [A] EP 0821086 A2 19980128 - TEIJIN LTD [JP]
- [A] EP 0353768 A2 19900207 - DU PONT [US]
- See references of WO 2004113599A1

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