

Title (en)

PROCESS FOR PREPARING ANTIMICROBIAL ELASTIC FIBER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER ANTIMIKROBIELLEN ELASTOFASER

Title (fr)

PROCEDE DE PREPARATION D'UNE FIBRE ELASTIQUE ANTIMICROBIENNE

Publication

**EP 1848845 A1 20071031 (EN)**

Application

**EP 05733511 A 20050408**

Priority

- KR 2005000988 W 20050408
- KR 20040113981 A 20041228

Abstract (en)

[origin: WO2006070971A1] Disclosed herein is a process for preparing an antimicrobial elastic fiber. The process comprises: mixing a glass compound, as an antimicrobial agent, containing ZnO, SiO<sub>2</sub>, and an alkali metal oxide, and having an average particle size of 0.1 μm to 5 μm, with a dispersant; sand grinding or milling the mixture; and adding the ground or milled mixture to a solution of a segmented polyurethane polymer to prepare an elastic yarn. The process can provide advantageous effects that spinnability is improved and the color of yarn remains unchanged.

IPC 8 full level

**D01F 1/10** (2006.01); **D01F 6/70** (2006.01)

CPC (source: EP KR US)

**D01F 1/103** (2013.01 - EP KR US); **D01F 6/70** (2013.01 - EP US); **D04H 1/4358** (2013.01 - KR); **D06M 11/36** (2013.01 - KR); **D10B 2401/13** (2013.01 - KR); **Y10T 428/2927** (2015.01 - EP US)

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**WO 2006070971 A1 20060706**; BR PI0507099 A 20070619; BR PI0507099 B1 20161011; CN 100570024 C 20091216; CN 101061265 A 20071024; EP 1848845 A1 20071031; EP 1848845 A4 20090812; JP 2008525653 A 20080717; KR 100615778 B1 20060825; KR 20060075227 A 20060704; MX 2007005028 A 20070619; TW 200624628 A 20060716; US 2007292684 A1 20071220

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