

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, SiO₂, 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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