

Title (en)
STAINPROOF FIBER STRUCTURE

Title (de)
SCHMUTZRESISTENTE FASERSTRUKTUR

Title (fr)
STRUCTURE À FIBRES À L'ÉPREUVE DES TACHES

Publication
EP 3696318 A1 20200819 (EN)

Application
EP 18866556 A 20181004

Priority
• JP 2017197318 A 20171011
• JP 2018037209 W 20181004

Abstract (en)
Provided is a fiber structure having high adhesion suppressibility against aqueous soil and oily soil and soil removability in washing. A soil resistant fiber structure includes a resin film on at least a part of a fiber surface, the resin film containing polyvinyl alcohol and a fluorine-based oil-repellent resin having a hydrophilic component, the fiber structure having a water repellency degree of 2 or less as measured by a spray test in accordance with JIS L-1092, and an oil repellency degree of 2 or more as measured in accordance with AATCC 118 method. The fluorine-based oil-repellent resin is preferably a fluorine-based oil-repellent resin containing a polyoxyalkylene group. The polyvinyl alcohol preferably has an average polymerization degree of 200 to 1500.

IPC 8 full level
D06M 15/277 (2006.01); **A41D 31/00** (2019.01); **D06M 15/333** (2006.01); **D06M 15/423** (2006.01)

CPC (source: EP KR US)
A41D 31/00 (2013.01 - EP KR US); **D03D 15/00** (2013.01 - EP KR US); **D03D 15/217** (2021.01 - EP KR US); **D03D 15/283** (2021.01 - EP KR US); **D03D 15/47** (2021.01 - EP); **D06M 15/277** (2013.01 - EP KR US); **D06M 15/333** (2013.01 - EP KR US); **D06M 15/423** (2013.01 - EP KR US); **D06M 15/53** (2013.01 - EP US); **D06M 15/576** (2013.01 - EP US); **D06M 2101/06** (2013.01 - EP); **D06M 2101/32** (2013.01 - EP US); **D06M 2200/01** (2013.01 - EP KR US); **D06M 2200/11** (2013.01 - EP US); **D10B 2331/04** (2013.01 - US)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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EP 3696318 A1 20200819; **EP 3696318 A4 20210707**; CA 3074185 A1 20190418; CN 111183254 A 20200519; JP 2023058707 A 20230425; JP 7501694 B2 20240618; JP WO2019073898 A1 20200917; KR 20200058418 A 20200527; US 2020283949 A1 20200910; WO 2019073898 A1 20190418

DOCDB simple family (application)
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