

Title (en)

FLAME RETARDANT STRETCH FIBER STRUCTURE, FLAME RETARDANT STRETCH WOVEN/KNITTED FABRIC, FLAME RETARDANT STRETCH CORE SPUN YARN, AND PROTECTIVE CLOTHING USING SAME

Title (de)

FLAMMHEMMENDE STRETCHFASERSTRUKTUR, FLAMMHEMMENDER GEWOBENER/GESTRICKTER STRETCHSTOFF, FLAMMHEMMENDES GESPONNENES GEWEBE MIT STRETCHKERN UND SCHUTZBEKLEIDUNG DAMIT

Title (fr)

STRUCTURE DE FIBRE EXTENSIBLE IGNIFUGE, TISSU/TRICOT EXTENSIBLE IGNIFUGE, FIL À ÂME EXTENSIBLE IGNIFUGE ET VÊTEMENT DE PROTECTION LES UTILISANT

Publication

EP 4053318 A1 20220907 (EN)

Application

EP 20881304 A 20201029

Priority

- JP 2019199847 A 20191101
- JP 2020040718 W 20201029

Abstract (en)

The purpose of the present invention is to impart stretchability to a flame retardant structure composed of pilling-resistant flame retardant modacrylic fiber and blended yarn. This flame retardant stretch fiber structure is characterized in that the flame retardant modacrylic fiber blend ratio is 44-79 weight%, the regenerated cellulose fiber blend ratio is 17-50 weight%, and the polyurethane elastic fiber blend ratio is 2-10 weight%. Afterflame and afterglow according to the ISO 15025 A method both average 2.0 seconds or less.

IPC 8 full level

D04B 1/16 (2006.01); **A41D 13/00** (2006.01); **A41D 31/00** (2019.01); **A41D 31/08** (2019.01); **D02G 3/04** (2006.01); **D03D 7/00** (2006.01); **D03D 15/40** (2021.01); **D03D 15/47** (2021.01); **D03D 15/513** (2021.01); **D03D 15/533** (2021.01); **D03D 15/56** (2021.01); **D04B 1/00** (2006.01); **D04B 1/18** (2006.01)

CPC (source: EP)

A41D 31/08 (2019.01); **A41D 31/18** (2019.01); **D02G 3/328** (2013.01); **D02G 3/443** (2013.01); **D03D 1/0035** (2013.01); **D03D 13/004** (2013.01); **D03D 15/283** (2021.01); **D03D 15/47** (2021.01); **D03D 15/513** (2021.01); **D03D 15/533** (2021.01); **D03D 15/54** (2021.01); **D03D 15/56** (2021.01); **D04B 1/16** (2013.01); **D04B 1/18** (2013.01); **D10B 2201/20** (2013.01); **D10B 2321/101** (2013.01); **D10B 2331/10** (2013.01); **D10B 2403/0114** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 4053318 A1 20220907; **EP 4053318 A4 20230104**; JP WO2021085571 A1 20210506; WO 2021085571 A1 20210506

DOCDB simple family (application)

EP 20881304 A 20201029; JP 2020040718 W 20201029; JP 2021553704 A 20201029