

Title (en)

POLYPHENYLENE SULFIDE MONOFILAMENT, METHOD FOR MANUFACTURING SAME, AND FIBER PACKAGE

Title (de)

POLYPHENYLENSULFIDMONOFILAMENT, VERFAHREN ZUR HERSTELLUNG DAVON UND FASERVERPACKUNG

Title (fr)

MONOFILAMENT DE SULFURE DE POLYPHÉNYLÈNE, SON PROCÉDÉ DE FABRICATION ET EMBALLAGE DE FIBRES

Publication

EP 4112789 A1 20230104 (EN)

Application

EP 22773098 A 20220331

Priority

- JP 2021062433 A 20210331
- JP 2021062434 A 20210331
- JP 2021065544 A 20210407
- JP 2022016959 W 20220331

Abstract (en)

A polyphenylene sulfide monofilament has a phenylene sulfide unit as a main structural unit and satisfies (1) to (5):(1) a fineness of 6 to 35 dtex;(2) a breaking strength of 3.4 cN/dtex or more;(3) a breaking elongation of 24% to 45%;(4) a 5% modulus of 1.0 to 1.6 cN/dtex; and(5) a 10% modulus of 1.4 to 2.3 cN/dtex.

IPC 8 full level

D01F 6/76 (2006.01)

CPC (source: EP KR US)

D01D 5/088 (2013.01 - US); **D01D 5/16** (2013.01 - EP); **D01D 7/00** (2013.01 - KR US); **D01D 10/02** (2013.01 - US); **D01F 6/74** (2013.01 - US); **D01F 6/76** (2013.01 - KR); **D01F 6/765** (2013.01 - EP); **D02J 1/22** (2013.01 - EP KR); **D10B 2331/14** (2013.01 - US); **D10B 2401/04** (2013.01 - US); **D10B 2401/063** (2013.01 - US)

Citation (search report)

See references of WO 202211116A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4112789 A1 20230104; CN 115413302 A 20221129; JP WO2022211116 A1 20221006; KR 20220158749 A 20221201; TW 202307298 A 20230216; US 2024018694 A1 20240118; WO 2022211116 A1 20221006

DOCDB simple family (application)

EP 22773098 A 20220331; CN 202280003204 A 20220331; JP 2022016959 W 20220331; JP 2022557837 A 20220331; KR 20227035647 A 20220331; TW 111112541 A 20220331; US 202217995057 A 20220331