

Title (en)

SEA-ISLAND TYPE COMPOSITE MULTIFILAMENT, ULTRAFINE MULTIFILAMENT, AND ULTRAFINE FIBER STRUCTURE

Title (de)

VERBUNDMULTIFILAMENT VOM MEERESINSEL-TYP, ULTRAFEINES MULTIFILAMENT UND ULTRAFEINE FASERSTRUKTUR

Title (fr)

MULTIFILAMENT COMPOSITE DE TYPE ÎLE ET MER, MULTIFILAMENT ULTRAFIN ET STRUCTURE DE FIBRE ULTRAFINE

Publication

EP 4279644 A1 20231122 (EN)

Application

EP 22739440 A 20220113

Priority

- JP 2021004876 A 20210115
- JP 2022000846 W 20220113

Abstract (en)

Provided are a sea-island type composite multifilament which includes a thermoplastic elastomer resin as an island component, and an ultrafine multifilament prepared from such a sea-island type composite multifilament. The sea-island type composite multifilament includes an island component and a sea component. The island component includes a thermoplastic elastomer resin (A) having at least one of a Shore A hardness of 90 or less, a Shore D hardness of 60 or less, or a Rockwell hardness (R scale) of 70 or less. The sea component includes a water-soluble or easily alkali-soluble thermoplastic resin (B). The sea-island type composite multifilament has an average single island diameter of 8000 nm or less.

IPC 8 full level

D01F 8/12 (2006.01); **D01F 6/00** (2006.01); **D01F 8/10** (2006.01); **D01F 8/14** (2006.01); **D03D 15/33** (2021.01); **D03D 15/56** (2021.01); **D04B 1/18** (2006.01); **D04B 21/00** (2006.01)

CPC (source: EP US)

D01D 5/088 (2013.01 - US); **D01D 5/30** (2013.01 - US); **D01D 5/36** (2013.01 - EP); **D01F 6/82** (2013.01 - EP); **D01F 6/86** (2013.01 - EP); **D01F 8/10** (2013.01 - US); **D01F 8/12** (2013.01 - US); **D01F 8/14** (2013.01 - US); **D04B 1/16** (2013.01 - US); **D04B 1/18** (2013.01 - EP); **D01F 8/10** (2013.01 - EP); **D01F 8/12** (2013.01 - EP); **D01F 8/14** (2013.01 - EP); **D10B 2321/06** (2013.01 - US); **D10B 2331/02** (2013.01 - US); **D10B 2331/04** (2013.01 - US); **D10B 2401/06** (2013.01 - US); **D10B 2401/20** (2013.01 - US)

Citation (search report)

See references of WO 2022154035A1

Designated contracting state (EPC)

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BA ME

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