

Title (en)
COMPOSITE FIBER AND MULTIFILAMENT

Title (de)
VERBUNDFASER UND MULTIFIL

Title (fr)
FIBRE COMPOSITE ET MULTIFILAMENT

Publication
EP 4265828 A1 20231025 (EN)

Application
EP 21906673 A 20211215

Priority
• JP 2020210112 A 20201218
• JP 2021046396 W 20211215

Abstract (en)
The present invention provides a conjugate fiber wherein the sum of the lengths of interfaces that are formed by two or more kinds of polymers that constitute a fiber cross-section is extremely large. A conjugate fiber according to the present invention has a fiber cross-section which is composed of two or more kinds of polymers that form a plurality of interfaces; the value obtained by dividing the sum of the interface lengths between two kinds of polymers by the area of the fiber cross-section is 0.0010 nm⁻¹ or more; and the interfaces are continuous in the fiber axis direction.

IPC 8 full level
D01F 8/04 (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP KR US)
D01D 5/253 (2013.01 - EP US); **D01D 5/32** (2013.01 - EP US); **D01D 5/34** (2013.01 - US); **D01F 8/06** (2013.01 - EP); **D01F 8/12** (2013.01 - EP); **D01F 8/14** (2013.01 - EP KR US); **D10B 2331/04** (2013.01 - US); **D10B 2401/00** (2013.01 - US)

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 4265828 A1 20231025; CN 116583634 A 20230811; JP WO2022131312 A1 20220623; KR 20230119647 A 20230816; TW 202233919 A 20220901; US 2024110314 A1 20240404; WO 2022131312 A1 20220623

DOCDB simple family (application)
EP 21906673 A 20211215; CN 202180084298 A 20211215; JP 2021046396 W 20211215; JP 2021575507 A 20211215; KR 20237019975 A 20211215; TW 110147347 A 20211217; US 202118267798 A 20211215