

Title (en)  
COMPOSITE FIBER AND MOLDED ARTICLE

Title (de)  
VERBUNDFASER UND FORMARTIKEL

Title (fr)  
FIBRE COMPOSITE ET ARTICLE MOULÉ

Publication  
**EP 3690087 A4 20210602 (EN)**

Application  
**EP 18862330 A 20180831**

Priority  
• JP 2017185816 A 20170927  
• JP 2018032501 W 20180831

Abstract (en)  
[origin: EP3690087A1] There are provided a composite fiber from which a fabric-feel molded article having a fiber texture can be obtained and a molded article using the composite fiber. The composite fiber has a sea-island structure in which, in a sea component 1 of which a cross section vertical to a longitudinal direction is made of a first thermoplastic resin, a plurality of island components 2 made of a second thermoplastic resin higher in melting point than the first thermoplastic resin is interspersed. Woven cloth, knitted cloth, or braided cloth is formed using a composite fiber 10 for two or more axes in which the sea component 1 has a parallel light transmittance of 5% or more, the island components 2 have a crystallinity of 10% or more, and the volume ratio of the island components 2 is 50 to 90%, and is thermally molded to form a molded article.

IPC 8 full level  
**D01F 8/04** (2006.01); **D01D 5/34** (2006.01); **D01F 8/06** (2006.01); **D02G 3/40** (2006.01); **D03D 15/00** (2021.01); **D04B 1/16** (2006.01); **D04B 21/16** (2006.01); **D04C 1/02** (2006.01)

CPC (source: EP US)  
**D01D 5/34** (2013.01 - EP); **D01F 8/04** (2013.01 - EP); **D01F 8/06** (2013.01 - EP); **D02G 3/40** (2013.01 - EP); **D03D 15/00** (2013.01 - EP US); **D03D 15/283** (2021.01 - EP US); **D04B 1/16** (2013.01 - EP); **D04B 21/16** (2013.01 - EP); **D04C 1/02** (2013.01 - EP); **D01D 5/36** (2013.01 - EP)

Citation (search report)  
• [X] JP 2015112784 A 20150622 - UBE EXSYMO CO LTD  
• [X] EP 1731641 A1 20061213 - UBE NITTO KASEI CO [JP]  
• [XA] US 2008045109 A1 20080221 - OGATA TOSHIYUKI [JP], et al  
• [A] CN 102560708 A 20120711 - UNIV SHAOXING, et al  
• See also references of WO 2019065093A1

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DOCDB simple family (publication)  
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