

Title (en)
THERMOPLASTIC RESIN FIBER, PRODUCTION METHOD THEREFOR, AND FABRIC THEREOF

Title (de)
THERMOPLASTISCHE HARZFASER, HERSTELLUNGSVERFAHREN DAFÜR UND GEWEBE DAVON

Title (fr)
FIBRE DE RÉSINE THERMOPLASTIQUE, SON PROCÉDÉ DE PRODUCTION, ET TISSU ASSOCIÉ

Publication
EP 3578699 A4 20210310 (EN)

Application
EP 18747941 A 20180129

Priority
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Abstract (en)
[origin: EP3578699A1] Disclosed herein is a thermoplastic resin fiber that uses highly versatile resin raw materials but exhibits high extensibility that is conventionally unknown. With a view to providing a method for producing the fiber and a fabric using the fiber, the thermoplastic resin fiber includes a thermoplastic resin containing a polyolefin resin, a polyamide resin, and a compatibilizer, and has a fracture elongation of 50% or more, wherein the compatibilizer is a modified elastomer having a reactive group that reacts with the polyamide resin. The fabric uses the thermoplastic resin fiber. The method includes a spinning step in which a thermoplastic resin composition obtained by melt-kneading a melt-kneaded product of the polyamide resin and the modified elastomer and the polyolefin is spun into a fiber.

IPC 8 full level
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Citation (search report)
• [I] JP 2014037642 A 20140227 - MITSUBISHI GAS CHEMICAL CO
• [A] JP 2012036519 A 20120223 - UNITIKA LTD
• [A] US 2014364569 A1 20141211 - KITO MASAYUKI [JP], et al
• See references of WO 2018143136A1

Designated contracting state (EPC)
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