

Title (en)

Method of manufacturing a synthetic-resin fibre and molecularly oriented synthetic-resin fibre, and a molecularly oriented synthetic-resin fibre obtained by this method.

Title (de)

Verfahren zur Herstellung einer Synthesefaser und einer orientierten Synthesefaser sowie nach diesem Verfahren hergestellte orientierte Synthesefaser.

Title (fr)

Méthode pour la fabrication d'une fibre synthétique et fibre synthétique orientée; fibre synthétique orientée, fabriquée par cette méthode.

Publication

**EP 0233667 A1 19870826 (EN)**

Application

**EP 87200155 A 19870203**

Priority

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Abstract (en)

The invention provides a method of manufacturing a synthetic-resin fibre, in which decomposition of the polymer molecules is avoided, and in which no solvents have to be used. A starting material which comprises at least an oligomeric compound is extruded from the melt to form a liquid thread, after which the starting material is polymerized by subjecting it to actinic radiation. The method is particularly suitable for the manufacture of a molecularly oriented synthetic-resin fibre, for which purpose the liquid thread is subjected to an elongational flow, after which the thus oriented oligomeric compound is polymerized. The synthetic-resin fibre obtained by this method has a particularly high density of cross-links between the polymer chains.

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IPC 8 full level

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Citation (search report)

- [X] FR 2080737 A1 19711119 - SCHWARZA CHEMIEFASER [DD]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 228 (C-303)[1951], 13th September 1985; & JP-A-60 88 112 (MATSUSHITA DENKI SANGYO K.K.) 17-05-1985
- [A] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 138 (C-231)[1575], 27th June 1984; & JP-A-59 47 411 (TEIJIN K.K.) 17-03-1984

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EP2710050A4; US5073294A; KR101433991B1; AU2009306069B2; WO2010046750A3; US7939578B2; US8513322B2; US9481113B2; US10099416B2

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