

Title (en)
METHOD OF PRODUCING FINE AMORPHOUS POLYMER FIBRES, FINE AMORPHOUS POLYMER FIBRES, AND SPINNERET FOR PRODUCING SUCH FIBRES

Title (de)
VERFAHREN ZUR HERSTELLUNG FEINER AMORPHER POLYMERFASERN, FEINE AMORPHE POLYMERFASERN UND SPINNDÜSE ZUR HERSTELLUNG SOLCHER FASERN

Title (fr)
PROCÉDÉ DE PRODUCTION DE FIBRES FINES DE POLYMÈRE AMORPHE, FIBRES FINES DE POLYMÈRE AMORPHE, ET FILIÈRE DESTINÉE À PRODUIRE DE TELLES FIBRES

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Application
EP 13747602 A 20130731

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Abstract (en)
[origin: US2014037957A1] A method including the steps of extruding a melt including an amorphous polymer composition through a spinneret under a pressure of from 400 to 1500 psi to produce a spun fiber; collecting the spun fiber on a feeding roll without drawing the spun fiber; producing a solidified fiber from the spun fiber. The solidified fiber can have a dpf within a range of from greater than 0 to 2.5 dpf, and a shrinkage less than or equal to 2%. The method can also include collecting the solidified fiber onto a spool without subjecting the solidified fiber to a drawing step. A spinneret for producing fibers of at most 2.5 dpf from a composition comprising an amorphous polyetherimide polymer, the spinneret comprising a die having a plurality of round melt channels but no distribution plates. Fibers produced by the method and from the spinneret are also disclosed.

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Citation (search report)
See references of WO 2014025586A1

Citation (examination)
• JP H01306614 A 19891211 - TEIJIN LTD
• "ASTM D 2259 - 02 / Standard Test Method for shrinkage of yarns", 30 November 2002, ASTM INTERNATIONAL, article ANONYMOUS: "ASTM D 2259 - 02 / Standard Test Method for shrinkage of yarns", pages: 1 - 5, XP055512494

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