

Title (en)

A PROCESS FOR PREPARING SUBDENIER FIBERS, PULP-LIKE SHORT FIBERS, FIBRIDS, ROVINGS AND MATS FROM ISOTROPIC POLYMER SOLUTIONS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SUBDENIER FASERN, PULPEÄHNLICHEN KURZEN FASERN, FIBRIDEN, VORGARNEN UND MATTEN AUS ISOTROPEN POLYMEREN LÖSUNGEN

Title (fr)

PROCEDE DE PREPARATION DE FIBRES DE L'ORDRE DU SOUS-DENIER SOUS FORME DE FIBRES COURTES DE CONSISTANCE PATEUSE, DE FIBRIDES, DE STRATIFILS ET DE NATTES A PARTIR DE SOLUTIONS POLYMERES ISOTROPES

Publication

**EP 0540608 B1 19980128 (EN)**

Application

**EP 91913576 A 19910719**

Priority

- US 9105000 W 19910719
- US 55519490 A 19900720

Abstract (en)

[origin: WO9201829A1] A process for preparing subdenier fibers and structures thereof from isotropic polymer solutions is disclosed. The process comprises extruding a stream of the polymer solution into a chamber, introducing a pressurized gas into the chamber, directing the gas in the flow direction of and in surrounding contact with the stream within the chamber, passing both the gas and the stream into a zone of lower pressure at a velocity sufficient to attenuate the stream and fragment it into fibers, and contacting the fragmented stream in the zone with a coagulating fluid.

IPC 1-7

**D01D 5/11**; D01F 6/60; D01F 6/18; D21H 13/26; D04H 3/16

IPC 8 full level

**B29C 47/54** (2006.01); **B32B 5/18** (2006.01); **C08F 20/42** (2006.01); **C08F 20/44** (2006.01); **C08L 77/00** (2006.01); **C08L 77/10** (2006.01); **D01D 5/084** (2006.01); **D01D 5/11** (2006.01); **D01F 6/18** (2006.01); **D01F 6/60** (2006.01); **D01F 6/80** (2006.01); **D01F 6/84** (2006.01); **D04H 1/56** (2006.01); **D04H 13/00** (2006.01); **D21H 13/26** (2006.01)

CPC (source: EP)

**D01D 5/11** (2013.01); **D01F 6/18** (2013.01); **D01F 6/605** (2013.01); **D04H 1/56** (2013.01); **D04H 13/00** (2013.01); **D21H 13/26** (2013.01)

Designated contracting state (EPC)

AT CH DE FR GB IT LI

DOCDB simple family (publication)

**WO 9201829 A1 19920206**; AT E162857 T1 19980215; AU 658827 B2 19950504; AU 8232191 A 19920218; CA 2087727 A1 19920121; DE 69128834 D1 19980305; DE 69128834 T2 19980910; EP 0540608 A1 19930512; EP 0540608 B1 19980128; JP 3022597 B2 20000321; JP H05508451 A 19931125; KR 0178360 B1 19990201; PL 297657 A1 19920713

DOCDB simple family (application)

**US 9105000 W 19910719**; AT 91913576 T 19910719; AU 8232191 A 19910719; CA 2087727 A 19910719; DE 69128834 T 19910719; EP 91913576 A 19910719; JP 51247091 A 19910719; KR 930700164 A 19930119; PL 29765791 A 19910719