

Title (en)

A DRY-SPINNING PROCESS FOR THE MAKING OF STABLE CROSS-SECTION HYGROSCOPIC CORE-SHEATH FIBRES AND FILAMENTS

Publication

**EP 0029949 B1 19840215 (DE)**

Application

**EP 80107098 A 19801115**

Priority

DE 2947824 A 19791128

Abstract (en)

[origin: ES8107337A1] Hygroscopic filaments or fibers with a core-jacket structure of hydrophobic, filament-forming synthetic polymers having a water retention capacity of at least 10% and having uniform round to oval cross-sectional profiles are obtained by a dry-spinning process which comprises addition of a substance to the spinning solvent which (a) has a higher boiling point than the spinning solvent used, (b) is readily miscible with the spinning solvent and with water, (c) is a non-solvent for the polymer to be spun, and addition of another substance which (a) is soluble in the non-solvent for the polymer to be spun, (b) is soluble in the solvent for the polymer (c) remains dissolved in the non-solvent for the polymer during solidification of the filaments, (d) is insoluble in water, and (e) does not evaporate to any significant extent during the spinning process, to the system in quantities of at least 1% by weight, based on polymer solids/spinning solvent/non-solvent carrying out the spinning process in such a way that the non-solvent does not evaporate to any significant extent in the spinning duct and washing out the non-solvent from the solidified filaments.

IPC 1-7

**D01D 5/247**; **D01D 5/34**; **D01F 6/18**; **D01F 1/08**; **D01D 5/04**

IPC 8 full level

**D01D 5/04** (2006.01); **D01D 5/247** (2006.01); **D01D 5/34** (2006.01); **D01F 1/08** (2006.01); **D01F 6/18** (2006.01); **D01F 6/54** (2006.01)

CPC (source: EP US)

**D01D 5/247** (2013.01 - EP US); **D01D 5/34** (2013.01 - EP US); **D01F 1/08** (2013.01 - EP US); **D01F 6/18** (2013.01 - EP US); **Y10T 428/2975** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE DE FR GB IT NL

DOCDB simple family (publication)

**EP 0029949 A1 19810610**; **EP 0029949 B1 19840215**; AT E6275 T1 19840315; BR 8007730 A 19810609; CA 1163071 A 19840306; DD 154720 A5 19820414; DE 2947824 A1 19810723; DE 3066642 D1 19840322; ES 497194 A0 19811001; ES 8107337 A1 19811001; GR 73034 B 19840126; JP S5685418 A 19810711; JP S6214643 B2 19870403; PT 72072 A 19801201; PT 72072 B 19810929; US 4438060 A 19840320

DOCDB simple family (application)

**EP 80107098 A 19801115**; AT 80107098 T 19801115; BR 8007730 A 19801127; CA 365567 A 19801126; DD 22545680 A 19801125; DE 2947824 A 19791128; DE 3066642 T 19801115; ES 497194 A 19801127; GR 800163473 A 19801126; JP 16596480 A 19801127; PT 7207280 A 19801118; US 21046780 A 19801124