

Title (en)

METHOD FOR PRODUCING ULTRA-FINE SYNTHETIC YARNS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ULTRAFEINEN SYNTHETISCHEN GARNEN

Title (fr)

PROCEDE DE PRODUCTION DE FILS SYNTHETIQUES ULTRAFINS

Publication

EP 1185728 B1 20031210 (DE)

Application

EP 00927131 A 20000502

Priority

- DE 19922240 A 19990514
- EP 0003975 W 20000502

Abstract (en)

[origin: US6420025B1] A process of producing a synthetic ultrafine endless yarn on the basis of polyester or polyamide in the range from 0.25 to 0.9 denier per POY filament by melt spinning at draw-off speeds between 2000 and 6000 m/min with a high spinning safety. To the polyester or polyamide a second immiscible amorphous polymer may be added in an amount of 0.05 to 5 wt %. One feature of the invention is the adjustment of a balanced temperature profile in the cross-section of the filament bundle before reaching the draft zone, as well as the suitable adaptation between snap-back length and the draft point of the filaments in the quench duct.

IPC 1-7

D01D 5/08; **D01D 5/084**; **D01D 5/088**; **D01D 4/02**; **D01F 6/60**; **D01F 6/62**; **D01F 6/90**; **D01F 6/92**

IPC 8 full level

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CPC (source: EP US)

D01F 6/60 (2013.01 - EP US); **D01F 6/62** (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2969** (2015.01 - EP US)

Cited by

CN102864506A; CN105369375A

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US 6420025 B1 20020716; AT E256206 T1 20031215; DE 19922240 A1 20001116; DE 50004736 D1 20040122; EP 1185728 A1 20020313; EP 1185728 B1 20031210; WO 0070132 A1 20001123

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