

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 A1 20020313 (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

D01D 4/02 (2006.01); **D01D 5/08** (2006.01); **D01D 5/084** (2006.01); **D01D 5/088** (2006.01); **D01F 6/60** (2006.01); **D01F 6/62** (2006.01); **D01F 6/90** (2006.01); **D01F 6/92** (2006.01)

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)

Citation (search report)

See references of WO 0070132A1

Cited by

CN102864506A; CN105369375A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

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

DOCDB simple family (application)

US 95816901 A 20011004; AT 00927131 T 20000502; DE 19922240 A 19990514; DE 50004736 T 20000502; EP 0003975 W 20000502; EP 00927131 A 20000502