

Title (en)
MANUFACTURE OF POLYACRYLONITRILE FILAMENTS CONTAINING VERY FEW SOLVENTS

Publication
EP 0098484 B1 19870121 (DE)

Application
EP 83106187 A 19830624

Priority
DE 3225267 A 19820706

Abstract (en)
[origin: US4505870A] Polyacrylonitrile filaments having a residual solvent content of less than 5% by weight and a total linear density of over 100,000 dtex can be prepared without contact with an extracting agent for the spinning solvent by a process in which (a) the spinning solution spun has a viscosity at 100 DEG C. of 10 to 60 falling-ball seconds, (b) the filaments are treated while still hot, directly at the end of the spinning cell, inside it or immediately outside the end of the cell, with a spin-finish which contains a lubricant and an antistat and which gives the filaments a moisture content of at most 10% by weight, relative to the solids content of the fibre, and (c) the filaments are immediately exposed to a heat treatment without cooling down first.

IPC 1-7
D01F 6/18; **D01D 5/04**

IPC 8 full level
D01D 5/04 (2006.01); **D01F 6/18** (2006.01); **D01F 6/38** (2006.01)

CPC (source: EP US)
D01D 5/04 (2013.01 - EP US); **D01F 6/18** (2013.01 - EP US)

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DE3832872A1; US5013504A

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EP 0098484 A2 19840118; **EP 0098484 A3 19850911**; **EP 0098484 B1 19870121**; DE 3225267 A1 19840112; DE 3225267 C2 19901108; DE 3369350 D1 19870226; JP S5921712 A 19840203; US 4505870 A 19850319

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