Title (en)

Composite filament yarn and process and spinneret for manufacturing the same

Title (de)

Garn aus zusammengesetzten Fäden, Verfahren und Spinndüse zur Herstellung

Title (fr)

Fil de filaments composés, procédé et filière pour leur fabrication

Publication

EP 0378194 B1 19960410 (EN)

Application

EP 90100443 A 19900110

Priority

- JP 529989 A 19890112
- JP 32408989 A 19891215
- JP 32821389 A 19891220

Abstract (en)

[origin: EP0378194A2] A polyamide/polyurethane composite filament yarn, which filament comprises a polyamide sheath component and a polyurethane eccentric core component exposed with a neck portion of uniform width on the surface of the filament, is manufactured by a process comprising inserting, immediately before extruding from a spinneret orifice, a molten polyurethane flow obliquely from upwards and incorporating said polyurethane flow eccentrically into a molten polyamide flow flowing down in said conduit, while a small part of said polyurethane flow radially projected in a restricted width penetrating through the thinnest portion of said polyamide flow flows down along the inner wall of said conduit. For this process, an employable spinneret comprises a leading duct for polyamide connecting to an orifice via a vertical conduit, another leading duct for polyurethane connecting to an injection pipe obliquely extending therefrom, protruding into said conduit, opening immediately before said orifice and having a slit extending longitudinally at the under side along the entire protruded length.

IPC 1-7

D01F 8/12; D01D 5/34

IPC 8 full level

D01D 5/34 (2006.01); **D01F 8/12** (2006.01)

CPC (source: EP)

D01D 5/34 (2013.01); **D01F 8/12** (2013.01)

Cited by

DE102004004251A1; US5972502A; CN115896965A; CN109338486A; CN110016732A; US5603888A

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