

Title (en)

COMPOSITE FILAMENT YARN AND PROCESS AND SPINNERET FOR MANUFACTURING THE SAME

Publication

EP 0378194 A3 19901031 (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)

Citation (search report)

- [YD] JP S63256719 A 19881024 - KANEBO LTD
- [Y] US 3607611 A 19710921 - MATSUI MASAO, et al
- [A] DE 2032912 A1 19710121
- [A] GB 1518500 A 19780719 - COURTAULDS LTD

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DE FR GB IT

DOCDB simple family (publication)

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