

Title (en)

PROCESS FOR THE PRODUCTION OF DRY SPUN HOLLOW POLYACRYLONITRILE FILAMENTS AND FIBRES

Publication

EP 0051203 B1 19840627 (DE)

Application

EP 81108530 A 19811020

Priority

DE 3040971 A 19801030

Abstract (en)

[origin: US4457885A] Hollow acrylonitrile fibres and filaments are prepared by dry spinning the spinning dope through a nozzle having loop-shaped nozzle orifices, the solution having a viscosity equivalent to at least 120 falling ball seconds, measured at 80 DEG C., or at least 75 falling ball seconds, measured at 100 DEG C., wherein the nozzle orifice area of the profiling nozzle is smaller than 0.2 mm² and the maximum width of the sides of the loop-shaped nozzle is 0.1 mm and the overlap between the two ends of the sides of the loop-shaped nozzle forms an angle of from 10 DEG to 30 DEG measured from the center of the nozzle and wherein the spinning air acts on the filaments in a transverse direction to the filament take-off and the air direction forms an angle of from 80 DEG to 100 DEG with a straight line passing through the opening between the sides.

IPC 1-7

D01D 5/24; **D01F 6/18**

IPC 8 full level

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CPC (source: EP US)

D01D 5/24 (2013.01 - EP US); **D01F 6/18** (2013.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 428/2975** (2015.01 - EP US)

Cited by

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