

Title (en)

Improved hollow polyester fibers for softer fiber fillings.

Title (de)

Hohle Polyesterfasern für weichere Füllungen.

Title (fr)

Fibres de polyester creuses pour rembourrage fibreux plus doux.

Publication

EP 0067684 A2 19821222 (EN)

Application

EP 82303034 A 19820611

Priority

US 27327581 A 19810612

Abstract (en)

A hollow polyester fibre has a continuous void throughout its length, a saw-toothed type of crimp configuration, and contains a textile slackening agent. It has a non-round cross-section, a void content of 15-35% resulting from 4 continuous, parallel, equisized voids equispaced around a solid axial core, a denier per fibre of 4-10 and a crimp frequency of 4-10 crimps per in. The fibres can be intermingled to provide filling material for pillows, insulated garments and sleeping bags. The material has high bulk and high bulk durability, together with softness resembling that of natural down fillings. The fibre may be made of poly(ethylene terephthalate) and contain 0.1-1.0 wt.% Si as a silicone slackening agent. Pref. the void content is 17-25%, the denier per fibre is 5.0-6.0 crimp frequency is 5-7 crimps per in. and the fibre length is 2.0-3.0 in.

IPC 1-7

D01D 5/24; **D01F 6/62**

IPC 8 full level

D01D 5/24 (2006.01); **D01F 6/62** (2006.01)

CPC (source: EP KR)

D01D 5/24 (2013.01 - EP); **D01F 6/62** (2013.01 - EP KR)

Cited by

EP2221400A1; EP0294912A3; EP0087291A3; US5891568A; EP0317192A1; DE102006035189A1; DE102006035189B4; GB2321187A; GB2321187B

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