

Title (en)

A method of preparing a polyamidic fiber suitable for staple spinning, and fiber obtained thereby.

Title (de)

Verfahren zur Herstellung von spinnfähigen Polyamidfasern und danach hergestellte Fasern.

Title (fr)

Méthode pour la préparation de fibres de polyamide convenant au filature, et fibres ainsi préparées.

Publication

**EP 0115041 A2 19840808 (EN)**

Application

**EP 83112917 A 19831221**

Priority

IT 2507782 A 19821231

Abstract (en)

The invention is concerned with a method of preparing a suitable fiber for staple processing and having good moisture absorption characteristics. The method consists of preparing a copolymer of Nylon 6 and poly(4, 7-dioxydecamethylene) adipamide containing 10 to 40% by weight of the latter component, spinning said copolymer by melting at a temperature in the 246 DEG C to 300 DEG C range and extruding through a die having capillaries with larger diameter dimensions than those used in the standard polyamide staple spinning, cooling the filaments by blowing air, hot drawing the filaments in air at a draft ratio in the 2.2 to 3.6 range, effecting a heat setting operation under tension, at least the final step of the heat setting operation being effected at a temperature close to the softening temperature of said filaments, and subjecting the resulting filaments to a mainly antistatic type of finish. The invention also relates to the polyamidic fiber thus obtained.

IPC 1-7

**D01F 6/80**; D01D 5/08; D01D 5/16

IPC 8 full level

**D01F 6/80** (2006.01)

CPC (source: EP)

**D01F 6/80** (2013.01)

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL

DOCDB simple family (publication)

**EP 0115041 A2 19840808**; **EP 0115041 A3 19851030**; IT 1157347 B 19870211; IT 8225077 A0 19821231; JP S59173310 A 19841001

DOCDB simple family (application)

**EP 83112917 A 19831221**; IT 2507782 A 19821231; JP 25226883 A 19831227