

Title (en)

METHOD AND DEVICE FOR MELT-SPINNING AND CUTTING A TOW

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHMELZSPINNEN UND ZERSCHNEIDEN EINES SPINNKABELS

Title (fr)

PROCEDE ET INSTALLATION DE FILAGE PAR FUSION ET DE DECOUPAGE D'UN CABLE DE FILAMENTS

Publication

**EP 1520065 B1 20070328 (DE)**

Application

**EP 03740395 A 20030701**

Priority

- DE 10230964 A 20020710
- EP 0306983 W 20030701

Abstract (en)

[origin: WO2004007817A1] The invention relates to a method and a device for melt-spinning and cutting a tow for producing staple fibers. According to the invention, a plurality of filament strands is spun using a spinning device and is combined to give a tow. After several treatment steps in several treatment devices the tow is cut in a continuous process to give a staple fiber after spinning. In a treatment device, the tow is guided across a plurality of drawing rollers and is drawn, the tow being treated with a fluid in a treatment line formed between the drawing rollers. In order to reduce especially the problem of irregularities of the physical properties of the fibers in a one-step process, the tow is treated with steam. For this purpose, the tow is guided in a treatment line between drawing rollers through a steam chamber to which a nozzle leads that introduces the steam into the steam chamber under excess pressure.

IPC 8 full level

**D01D 5/08** (2006.01); **D01D 5/12** (2006.01); **D01D 5/26** (2006.01); **D01D 10/02** (2006.01); **D01D 13/00** (2006.01)

CPC (source: EP)

**D01D 5/08** (2013.01); **D01D 5/12** (2013.01); **D01D 5/26** (2013.01); **D01D 10/02** (2013.01); **D01D 13/00** (2013.01)

Cited by

WO2015110357A1

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

**WO 2004007817 A1 20040122**; CN 1323198 C 20070627; CN 1662682 A 20050831; DE 10230964 A1 20040122; DE 50306916 D1 20070510; EP 1520065 A1 20050406; EP 1520065 B1 20070328

DOCDB simple family (application)

**EP 0306983 W 20030701**; CN 03814537 A 20030701; DE 10230964 A 20020710; DE 50306916 T 20030701; EP 03740395 A 20030701