Title (en)

METHOD AND DEVICE FOR MELT SPINNING AND COOLING A MULTIFILAMENT THREAD COMPRISING A MEASUREMENT OF THE COOLING AIR TEMPERATURE INSIDE THE FILAMENT BUNDLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHMELZSPINNEN UND ABKÜHLEN EINES MULTIFILEN FADENS MIT KÜHLLUFTTEMPERATURMESSUNG INNERHALB DES FILAMENTBÜNDELS

Title (fr)

PROCEDE ET DISPOSITIF POUR FILER A CHAUD ET REFROIDIR UN BRIN MULTIFILAIRE AVEC MESURE DE LA TEMPERATURE DE L'AIR DE REFROIDISSEMENT A L'INTERIEUR DU FAISCEAU DE FILAMENTS

Publication

EP 1951936 B1 20090304 (DE)

Application

EP 06829081 A 20061121

Priority

- EP 2006011130 W 20061121
- DE 102005056041 A 20051124

Abstract (en)

[origin: WO2007059914A1] The invention relates to a method for melt spinning and cooling a multifilament thread and to a device for carrying out said method. According to said method, a plurality of filaments is extruded from a polymer melt, said filaments being guided in a filament bundle and cooled by a cooling air stream that passes transversally across the filament bundle, the temperature of the cooling air that is evacuated during the cooling of the filaments being measured and monitored. To detect the cooled state of the filaments and the characteristics of the thread derived from said state, the temperature of the cooling air is measured at least at one measuring point inside the filament bundle. To achieve this, a temperature sensor is located inside the filament bundle between the spinneret and a thread guide that is allocated to the latter.

IPC 8 full level

D01D 5/088 (2006.01)

CPC (source: EP)

D01D 5/088 (2013.01); **D01D 13/02** (2013.01)

Cited by

DE102022002694A1; WO2024022849A1

Designated contracting state (EPC)

CH DE IT LI

DOCDB simple family (publication)

WO 2007059914 A1 20070531; CN 101313090 A 20081126; CN 101313090 B 20101208; DE 502006003037 D1 20090416; EP 1951936 A1 20080806; EP 1951936 B1 20090304

DOCDB simple family (application)

EP 2006011130 W 20061121; CN 200680043742 A 20061121; DE 502006003037 T 20061121; EP 06829081 A 20061121