

Title (en)

METHOD AND DEVICE FOR COOLING A SYNTHETIC THREAD

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ABKÜHLEN EINES SYNTHETISCHEN FADENS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE REFROIDISSEMENT D'UN FIL SYNTHÉTIQUE

Publication

EP 3519617 A1 20190807 (DE)

Application

EP 17704776 A 20170214

Priority

- DE 102016011740 A 20160928
- EP 2017053246 W 20170214

Abstract (en)

[origin: WO2018059743A1] The invention relates to a method and a cooling device for cooling a synthetic thread within a texturing zone of a texturing machine. For this purpose, a cooling fluid is introduced into a cooling groove of a cooling body, which is distributed in the groove base of the cooling groove. The heated thread is guided through the cooling groove in contact with same. In order to avoid an excess of cooling fluid at the end of the cooling, the cooling fluid is supplied via a dosing opening in the groove base of the cooling groove according to a thread titre of the thread and with a flow rate in the region of 0.05 ml/min to 5 ml/min, wherein the flow rate of cooling fluid is generate by a controllable dosing means.

IPC 8 full level

D02J 13/00 (2006.01)

CPC (source: EP)

D02J 13/001 (2013.01); **D02J 13/003** (2013.01)

Citation (search report)

See references of WO 2018059743A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018059743 A1 20180405; CN 109790652 A 20190521; CN 109790652 B 20211130; EP 3519617 A1 20190807; EP 3519617 B1 20201007; JP 2019533095 A 20191114; JP 6991225 B2 20220112; TW 201814095 A 20180416; TW 202321536 A 20230601; TW I774665 B 20220821; TW I803429 B 20230521

DOCDB simple family (application)

EP 2017053246 W 20170214; CN 201780058217 A 20170214; EP 17704776 A 20170214; JP 2019538312 A 20170214; TW 106109156 A 20170320; TW 111135473 A 20170320