

Title (en)
METHOD AND DEVICE FOR FILAMENT SPINNING WITH DEFLECTION

Title (de)
VERFAHREN UND VORRICHTUNG ZUM FILAMENTSPINNEN MIT UMLENKUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE FILAGE DE FILAMENTS COMPRENANT UN RENVOI

Publication
EP 3844328 A1 20210707 (DE)

Application
EP 19758989 A 20190830

Priority
• EP 18191628 A 20180830
• EP 2019073163 W 20190830

Abstract (en)
[origin: FI20195076A1] The present invention relates to a method for producing solid cellulose filaments from a cellulosic fluid, comprising the steps of extruding said fluid through a plurality of extrusion openings, whereby fluid filaments are formed, and solidifying said filaments in a coagulation bath, wherein the filaments are bundled and deflected as a bundle in the coagulation bath in order to be drawn from the coagulation bath above the coagulation bath level, wherein the bundle of filaments occupies a deflection width L on a deflection device as defined by a formula, and to a device for conducting said method.

IPC 8 full level
D01D 5/06 (2006.01); **D01F 2/00** (2006.01)

CPC (source: CN EP FI KR US)
D01D 5/04 (2013.01 - CN); **D01D 5/06** (2013.01 - CN EP FI KR US); **D01D 5/14** (2013.01 - CN US); **D01D 7/00** (2013.01 - EP); **D01D 10/06** (2013.01 - US); **D01F 2/00** (2013.01 - EP FI KR US)

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)
EP 3505659 A1 20190703; BR 112021002686 A2 20210511; CA 3109240 A1 20200305; CN 110872732 A 20200310; CN 110872732 B 20220215; CN 112639181 A 20210409; EP 3844328 A1 20210707; EP 3844328 B1 20230607; ES 2954061 T3 20231120; FI 20195076 A1 20200301; FI 3844328 T3 20230810; KR 20200000558 U 20200311; KR 20210044881 A 20210423; PT 3844328 T 20230818; TW 202009266 A 20200301; TW I793257 B 20230221; US 11946165 B2 20240402; US 2021189599 A1 20210624; WO 2020043860 A1 20200305; ZA 202100726 B 20220727

DOCDB simple family (application)
EP 18191628 A 20180830; BR 112021002686 A 20190830; CA 3109240 A 20190830; CN 201910496372 A 20190610; CN 201980056832 A 20190830; EP 19758989 A 20190830; EP 2019073163 W 20190830; ES 19758989 T 20190830; FI 19758989 T 20190830; FI 20195076 A 20190205; KR 20190000470 U 20190130; KR 20217009061 A 20190830; PT 19758989 T 20190830; TW 108103310 A 20190129; US 201917271151 A 20190830; ZA 202100726 A 20210202