

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 DES FILAMENTS À DÉVIATION

Publication
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Application
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• 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.

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Citation (examination)
• WO 9620300 A2 19960704 - CHEMIEFASER LENZING AG [AT], et al
• DE 10223268 B4 20060601 - ZIMMER AG [DE]
• KR 101401148 B1 20140529 - HYOSUNG CORP [KR]

Citation (opposition)
Opponent : Dompatent von Kreisler Selting Werner -.
• WO 03057951 A1 20030717 - ZIMMER AG [DE], et al
• WO 0212599 A1 20020214 - ZIMMER AG [DE], et al
• DE 19744371 A1 19990415 - THUERINGISCHES INST TEXTIL [DE]
• EP 4190952 A1 20230607 - TREETOTEXTILE AB [SE]
• WO 2006000197 A1 20060105 - THUERINGISCHES INST TEXTIL [DE], et al

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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

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