

Title (en)
SPINNING METHOD AND SPINNING DEVICE

Title (de)
SPINNVERFAHREN UND SPINNVORRICHTUNG

Title (fr)
PROCÉDÉ DE FILAGE ET DISPOSITIF DE FILAGE

Publication
EP 3399077 A4 20181226 (EN)

Application
EP 16881850 A 20161226

Priority
• JP 2015256373 A 20151228
• JP 2016089230 W 20161226

Abstract (en)
[origin: EP3399077A1] A nozzle device for spinning comprising a nozzle, a polymer solution supply means that supplies a polymer solution to the nozzle and ejects the polymer solution from the nozzle tip, and a solvent vapor supply means that supplies a gas containing vapor of the same solvent as the solvent of the polymer solution at least to the vicinity of the polymer solution just ejected, and a spinning method using the nozzle device for spinning. Solidification of a spinning solution is prevented at the nozzle tip from which the spinning solution is ejected.

IPC 8 full level
D01D 4/02 (2006.01); **D01D 5/00** (2006.01); **D01D 5/04** (2006.01)

CPC (source: EP KR US)
D01D 4/02 (2013.01 - EP KR US); **D01D 5/0069** (2013.01 - EP US); **D01D 5/04** (2013.01 - EP KR US)

Citation (search report)
• [X] RU 2242546 C1 20041220
• [X] US 6382526 B1 20020507 - RENEKER DARRELL H [US], et al
• [XI] US 2013040140 A1 20130214 - JOO YONG L [US], et al
• [I] US 2010084793 A1 20100408 - HUANG CHENG-CHIANG [TW], et al
• See references of WO 2017115876A1

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 3399077 A1 20181107; EP 3399077 A4 20181226; AU 2016382146 A1 20180614; BR 112018013135 A2 20181211;
CA 3009481 A1 20170706; CN 108431308 A 20180821; HK 1253542 A1 20190621; JP 6683737 B2 20200422; JP WO2017115876 A1 20180614;
KR 20180098274 A 20180903; MX 2018006927 A 20180801; RU 2018127383 A 20200130; RU 2018127383 A3 20200130;
TW 201730390 A 20170901; TW I707995 B 20201021; US 2020270771 A1 20200827; WO 2017115876 A1 20170706

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EP 16881850 A 20161226; AU 2016382146 A 20161226; BR 112018013135 A 20161226; CA 3009481 A 20161226;
CN 201680076961 A 20161226; HK 18112744 A 20181008; JP 2016089230 W 20161226; JP 2017559258 A 20161226;
KR 20187018254 A 20161226; MX 2018006927 A 20161226; RU 2018127383 A 20161226; TW 105143408 A 20161227;
US 201616066236 A 20161226