

Title (en)  
INJECTION NOZZLE FOR A NEEDLELESS INJECTION DEVICE

Title (de)  
INJEKTIONSDÜSE FÜR EINE NADELLOSE INJEKTIONSVORRICHTUNG

Title (fr)  
BUSE D'INJECTION POUR DISPOSITIF D'INJECTION SANS AIGUILLE

Publication  
**EP 3525845 A1 20190821 (FR)**

Application  
**EP 17792112 A 20171002**

Priority

- FR 1659833 A 20161011
- FR 2017052701 W 20171002

Abstract (en)  
[origin: CA3039921A1] The invention relates to a injection nozzle for a needleless injection device, comprising a outflow channel (42) extending along an injection axis (B), the at least one outflow channel (42) comprising: a first channel portion of a first section; a second channel portion of a second section, the first section being higher than the second section; and a connection portion between the first channel portion and the second channel portion, the connection portion being inclined by an angle of between 70° and 90° in relation to the injection axis (B).

IPC 8 full level  
**A61M 5/30** (2006.01)

CPC (source: EP IL KR RU US)  
**A61M 5/2046** (2013.01 - IL KR US); **A61M 5/30** (2013.01 - IL RU); **A61M 5/3007** (2013.01 - EP IL KR US); **A61M 2205/8218** (2013.01 - IL 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)  
**FR 3057169 A1 20180413; FR 3057169 B1 20220401**; AU 2017341413 A1 20190411; AU 2017341413 B2 20230608; BR 112019007287 A2 20190709; BR 112019007287 B1 20231219; CA 3039921 A1 20180419; CN 109803700 A 20190524; CN 109803700 B 20231027; EP 3525845 A1 20190821; IL 265816 A 20190630; IL 265816 B1 20230601; IL 265816 B2 20231001; JP 2019531172 A 20191031; JP 2022119971 A 20220817; KR 102546081 B1 20230621; KR 20190069477 A 20190619; MX 2019003879 A 20190805; RU 2019107485 A 20201113; RU 2019107485 A3 20201113; RU 2749568 C2 20210615; US 11712521 B2 20230801; US 2019231981 A1 20190801; WO 2018069600 A1 20180419

DOCDB simple family (application)  
**FR 1659833 A 20161011**; AU 2017341413 A 20171002; BR 112019007287 A 20171002; CA 3039921 A 20171002; CN 201780062385 A 20171002; EP 17792112 A 20171002; FR 2017052701 W 20171002; IL 26581619 A 20190403; JP 2019540707 A 20171002; JP 2022091077 A 20220603; KR 20197013603 A 20171002; MX 2019003879 A 20171002; RU 2019107485 A 20171002; US 201916381584 A 20190411