

Title (en)  
Tapered helical fuel distributor

Title (de)  
KONISCHER SCHRAUBENFÖRMIGER KRAFTSTOFFVERTEILER

Title (fr)  
DISTRIBUTEUR DE COMBUSTIBLE HÉLICOÏDAL CONIQUE

Publication  
**EP 3499127 A1 20190619 (EN)**

Application  
**EP 18213120 A 20181217**

Priority  
US 201715844307 A 20171215

Abstract (en)  
A fuel distributor system for a turbomachine fuel injector can include a plurality of helical fuel flow channels (109) defined between a fuel distributor (107) and a shroud (105) that surrounds the fuel distributor. A wind axis of the helical flow channels is an axial axis of the fuel injector and each of the helical fuel flow channels includes an upstream opening (111) configured to be in fluid communication with a liquid fuel source and a downstream opening (115) configured to effuse fuel therefrom. Each of the plurality of helical fuel flow channels can reduce in flow area from the upstream opening to the downstream opening.

IPC 8 full level  
**F23R 3/28** (2006.01); **F23R 3/36** (2006.01)

CPC (source: EP US)  
**F23R 3/28** (2013.01 - EP US); **F23R 3/283** (2013.01 - EP US); **F23R 3/36** (2013.01 - EP US)

Citation (search report)

- [X] EP 3156732 A1 20170419 - DELAVAN INC [US]
- [X] US 2014339339 A1 20141120 - PROCIW LEV ALEXANDER [US]
- [X] EP 3076082 A1 20161005 - DELAVAN INC [US]
- [A] US 2009050714 A1 20090226 - KOJOVIC ALEKSANDAR [CA], et al
- [XPI] US 2018172274 A1 20180621 - PROCIW LEV ALEXANDER [US], et al

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)  
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DOCDB simple family (application)  
**EP 18213120 A 20181217**; US 201715844307 A 20171215