

Title (en)

A liquid fuel injector

Title (de)

Flüssigkeitskraftstoffinjektor

Title (fr)

INJECTEUR DE CARBURANT Liquide

Publication

EP 2667098 B1 20170412 (EN)

Application

EP 13169005 A 20130523

Priority

US 201213481411 A 20120525

Abstract (en)

[origin: EP2667098A2] A flow directing device for imparting swirl on a fluid includes a flow directing body (102) having a first surface (156) and opposed second surface (154). A flow channel (144) is defined in the first surface of the flow directing body for conducting fluids flowing through the flow directing body. The flow channel includes a channel surface set in from the first surface. A swirl bore (148) extends through the flow directing body from the channel surface to the second surface of the flow directing body at an oblique angle relative to the channel surface for imparting a tangential swirl component onto fluids flowing through the swirl bore. Having an asymmetrical terminus portion of the channel surface, and positioning of the swirl bore within the terminus portion, allow control of the swirl direction for flow within the terminus portion and swirl bore.

IPC 8 full level

F23D 11/38 (2006.01); **F23R 3/14** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP)

F23D 11/383 (2013.01); **F23R 3/14** (2013.01); **F23R 3/286** (2013.01); **F23R 2900/00018** (2013.01)

Designated contracting state (EPC)

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