

Title (en)  
Aerodynamic fuel nozzle

Title (de)  
Aerodynamische Kraftstoffdüse

Title (fr)  
Buse à combustible aérodynamique

Publication  
**EP 2515042 A2 20121024 (EN)**

Application  
**EP 12164848 A 20120419**

Priority  
US 201113092345 A 20110422

Abstract (en)  
The present application and the resultant patent provide a combustor (100) for a turbine engine (10). The combustor (100) may include a number of fuel nozzles (110) with one or more of the fuel nozzles (110) including a swirler assembly (130). The swirler assembly (130) may include a number of stages (140) with a number of fueled structures (245) and a number of unfueled structures (250).

IPC 8 full level  
**F23R 3/14** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)  
**F23R 3/14** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US)

Cited by  
CN104406197A; WO2023180315A3

Designated contracting state (EPC)  
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BA ME

DOCDB simple family (publication)  
**EP 2515042 A2 20121024; EP 2515042 A3 20140108**; CN 102809176 A 20121205; US 2012266602 A1 20121025

DOCDB simple family (application)  
**EP 12164848 A 20120419**; CN 201210179234 A 20120420; US 201113092345 A 20110422