

Title (en)  
Fuel injector.

Title (de)  
Brennstoffeinspritzvorrichtung.

Title (fr)  
Injecteur de carburant.

Publication  
**EP 0444811 A1 19910904 (EN)**

Application  
**EP 91301296 A 19910219**

Priority  
GB 9004734 A 19900302

Abstract (en)  
A fuel injector, eg for a gas turbine engine, has a hollow cylindrical body (12) with a downstream outlet end (18). The body (12) has an inner annular wall (24) with an outwardly flared inner surface (26) defining a downstream end region of an inner air passage (28). The body (12) also has an outer annular wall (30) defining an inner surface of an outer air passage (36). An annular fuel passage (32) is defined between the inner and outer walls (24 and 30). Fuel is supplied to the annular fuel passage (32) via a series of holes (46) provided in the inner wall (24), such fuel being supplied to the holes (46) by bore (52) and groove (50). The outwardly flared inner surface (26) of the inner wall (24) terminates adjacent the downstream outlet end (18) and is directed towards the downstream end (34) of the outer annular wall (30) so that air from the inner air passage (28) meets a fuel film on the inner surface of the outer annular wall (30) at or closely adjacent to the downstream outlet end (18) of the body (12). <IMAGE>

IPC 1-7  
**F02C 7/22**

IPC 8 full level  
**F23D 11/10** (2006.01)

CPC (source: EP)  
**F23D 11/107** (2013.01); **F23D 2900/11101** (2013.01)

Citation (search report)  
• [YD] US 4170108 A 19791009 - MOBSBY JOHN A [GB]  
• [Y] US 4216652 A 19800812 - HERMAN AVRUM S [US], et al  
• [A] US 3980233 A 19760914 - SIMMONS HAROLD C, et al  
• [AD] US 4373325 A 19830215 - SHEKLETON JACK R

Cited by  
DE10205573B4; EP2385306A3; US2016084503A1; US9822980B2; US10364988B2

Designated contracting state (EPC)  
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0444811 A1 19910904**; GB 9004734 D0 19900425

DOCDB simple family (application)  
**EP 91301296 A 19910219**; GB 9004734 A 19900302