

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>

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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)
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