

Title (en)

Cooling the take-off injector in a combustion chamber with two burner heads

Title (de)

Kühlung der Abflugdüse in einer Brennkammer mit zwei Brennerköpfen

Title (fr)

Refroidissement de l'injecteur de décollage d'une chambre de combustion à deux têtes

Publication

EP 0689007 B1 19981111 (FR)

Application

EP 95401466 A 19950621

Priority

FR 9407624 A 19940622

Abstract (en)

[origin: EP0689007A1] The cooler consists of a second circuit which carries fuel through the take-off injector in all operating modes, comprising an inner duct (16) and a coaxial outer return channel (20), with an additional annular duct (25) between the two. The tip of the injector has inclined channels (21) alternating with its outlet orifices (6b) to return any surplus fuel from the inner duct to the return channel. The injector has, for example, six outlet orifices, with the same number of inclined channels situated between them. <IMAGE>

IPC 1-7

F23D 11/36

IPC 8 full level

F02C 7/16 (2006.01); **F23D 11/36** (2006.01); **F23R 3/28** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)

F23D 11/36 (2013.01 - EP US)

Cited by

EP2900974A4; US6003781A; EP0841517A3; EP3076083A1; US6357237B1; US9400104B2; WO0022347A1; US9897321B2; US10309651B2; US10385809B2; US11111888B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0689007 A1 19951227; **EP 0689007 B1 19981111**; DE 69505895 D1 19981217; DE 69505895 T2 19990602; FR 2721694 A1 19951229; FR 2721694 B1 19960719; JP 2992456 B2 19991220; JP H0814063 A 19960116; US 5577386 A 19961126

DOCDB simple family (application)

EP 95401466 A 19950621; DE 69505895 T 19950621; FR 9407624 A 19940622; JP 15609995 A 19950622; US 49320695 A 19950620