

Title (en)

Cooling of a multimode injection device for a combustion chamber, particularly for a gas turbine

Title (de)

Kühlung einer multimodalen Einspritzvorrichtung für eine Brennkammer, insbesondere für eine Gasturbine

Title (fr)

Refroidissement d'un dispositif d'injection multimode pour chambre de combustion, notamment d'un turboréacteur

Publication

EP 1806536 B1 20170816 (FR)

Application

EP 07100253 A 20070108

Priority

FR 0650069 A 20060109

Abstract (en)

[origin: EP1806536A1] The multi-mode injector, containing two coaxial fuel atomising systems fed by primary (17) and secondary (19) circuits, has an atomising head in which the secondary circuit is connected to an annular distribution chamber (30) pierced with a series of equally-spaced fuel ejection holes (31). In the head the primary circuit forms at least part of a cooling duct (86) adjoining the distribution chamber and made with inner and outer radial surfaces.

IPC 8 full level

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); **F23R 3/283** (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US); **F23D 2900/00016** (2013.01 - EP US)

Citation (examination)

EP 1798475 A2 20070620 - KAWASAKI HEAVY IND LTD [JP]

Cited by

FR2911667A1; FR2951245A1; FR2951246A1; CN102575843A; RU2477808C2; EP2026002A1; FR2919898A1; US10451282B2; US8186163B2; US8959772B2; US10190774B2; US9003802B2; US9046271B2; US10288293B2; WO2011045486A1; WO2011045503A1; WO2015147935A1

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EP 07100253 A 20070108; CA 2572857 A 20070104; CN 200710000096 A 20070109; FR 0650069 A 20060109; JP 2007000529 A 20070105; RU 2007100426 A 20070109; US 62026907 A 20070105