

Title (en)

Multi-stage injection system of an air/fuel mixture in a gas turbine combustion chamber

Title (de)

Mehrstufiges Einspritzsystem eines Luft/Brennstoff-Gemisches in einer Gasturbinenbrennkammer

Title (fr)

Système d'injection multi-étages d'un mélange air/carburant dans une chambre de combustion de turbomachine

Publication

EP 1314933 B1 20080917 (FR)

Application

EP 02292866 A 20021119

Priority

FR 0115042 A 20011121

Abstract (en)

[origin: EP1314933A1] The multi-stage air injector has an internal axial chamber (50) with an outlet (58) for the mixture charge. A first feed stage has multiple fuel feed orifices (64) opening into the chamber and spaced around its axis. An air injection opening (66) also opens into the chamber. The injector has a second fuel feed stage axially offset from the first and with openings (70) also spaced around the injector axis.

IPC 8 full level

F23R 3/28 (2006.01); **F23D 11/10** (2006.01); **F23R 3/14** (2006.01)

CPC (source: EP US)

F23D 11/107 (2013.01 - EP US); **F23R 3/14** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US)

Cited by

EP1873456A1; FR2911666A1; FR2875585A1; EP1640661A3; EP1873455A1; FR2903169A1; EP1873454A1; FR2903171A1; FR2903170A1; EP1873458A1; FR2903172A1; FR2951246A1; CN102575844A; FR2911667A1; EP1837597A3; RU2468297C2; EP1953455A1; US7913494B2; US7478534B2; US7926281B2; US7506496B2; WO2011045486A1; US7823392B2; US9046271B2; US7908865B2; JP2005037122A

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