

Title (en)
Anti-coking injector arm

Title (de)
Anti-Verkokungsinjektorarm

Title (fr)
Bras d'injecteur anti-cokéfaction

Publication
EP 1770333 A1 20070404 (FR)

Application
EP 06121357 A 20060927

Priority
FR 0509879 A 20050928

Abstract (en)
The injector has an injector arm with two ducts that are coaxial and supports a spray head, where a peripheral duct (29) of annular section surrounds a central duct (28). The peripheral duct connects a primary fuel circuit that delivers fuel continuously, and the central duct connects a secondary fuel circuit that delivers fuel at a specific rate. The spray head has distributor, and an arrangement of channels that enables a fuel flowing in the central duct to be ejected as a diverging jet situated outside the jet of fuel coming from the peripheral duct. An independent claim is also included for an injector system for injecting fuel into a combustion chamber of a gas turbine engine.

IPC 8 full level
F23D 11/26 (2006.01); **F23D 11/38** (2006.01); **F23K 5/02** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)
F23D 11/26 (2013.01 - EP US); **F23R 3/28** (2013.01 - EP US); **F23D 2900/00016** (2013.01 - EP US); **F23K 2900/05003** (2013.01 - EP US)

Citation (search report)

- [X] US 5570580 A 19961105 - MAINS ROBERT T [US]
- [X] US 3638865 A 19720201 - MCENENY GREGORY E, et al
- [X] US 5934555 A 19990810 - DOEBBELING KLAUS [CH], et al
- [X] US 6256995 B1 20010710 - SAMPATH PARTHASARATHY [CA], et al
- [X] GB 2088037 A 19820603 - GEN ELECTRIC
- [X] US 2002073707 A1 20020620 - LAVIE ALAIN [FR], et al

Cited by
FR3106373A1; FR3091333A1; FR3010139A1; FR3091332A1; US11788727B2; US11168886B2; WO2020136359A1; WO2015025109A1; US10072578B2; EP2056023A1

Designated contracting state (EPC)
DE FR GB IT

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1770333 A1 20070404; **EP 1770333 B1 20100721**; CA 2561225 A1 20070328; DE 602006015580 D1 20100902; FR 2891314 A1 20070330; FR 2891314 B1 20150424; JP 2007093200 A 20070412; RU 2006134688 A 20080410; US 2007068164 A1 20070329

DOCDB simple family (application)
EP 06121357 A 20060927; CA 2561225 A 20060927; DE 602006015580 T 20060927; FR 0509879 A 20050928; JP 2006262708 A 20060927; RU 2006134688 A 20060928; US 53566706 A 20060927