

Title (en)

MULTIPOINT INJECTION DEVICE FOR A COMBUSTION CHAMBER OF A TURBINE ENGINE

Title (de)

MEHRPUNKT-EINSPRITZVORRICHTUNG FÜR EINE BRENNKAMMER EINES TURBINENMOTORS

Title (fr)

DISPOSITIF D'INJECTION MULTI-POINT POUR UNE CHAMBRE DE COMBUSTION DE TURBOMACHINE

Publication

EP 2488791 A1 20120822 (FR)

Application

EP 10778699 A 20101006

Priority

- FR 0904906 A 20091013
- FR 2010052101 W 20101006

Abstract (en)

[origin: WO2011045503A1] The invention relates to a fuel injection device for an annular combustion chamber of a turbine engine, said fuel injection device including: a pilot circuit feeding an injector; multipoint circuit feeding injection openings (80), formed in a frontal surface (72) of an annular crown (74), said crown being mounted in an annular chamber (78); and a means for heat-insulating said frontal surface (72), said heat insulation means including an annular cavity (70) formed around injection openings between the front surface (72) of the annular crown and a frontal wall (76) of the annular chamber (78), said annular cavity being intended to be operationally filled with air or cokefied fuel.

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 (search report)

See references of WO 2011045503A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 2951245 A1 20110415; **FR 2951245 B1 20130517**; BR 112012008509 A2 20160405; BR 112012008509 B1 20200929; CA 2776848 A1 20110421; CA 2776848 C 20170704; CN 102575843 A 20120711; CN 102575843 B 20141224; EP 2488791 A1 20120822; EP 2488791 B1 20140806; JP 2013507600 A 20130304; JP 5616456 B2 20141029; RU 2012119598 A 20131120; RU 2539223 C2 20150120; US 2012198853 A1 20120809; US 9003802 B2 20150414; WO 2011045503 A1 20110421

DOCDB simple family (application)

FR 0904906 A 20091013; BR 112012008509 A 20101006; CA 2776848 A 20101006; CN 201080046194 A 20101006; EP 10778699 A 20101006; FR 2010052101 W 20101006; JP 2012533670 A 20101006; RU 2012119598 A 20101006; US 201013501526 A 20101006