

Title (en)
ANNULAR COMBUSTION CHAMBER FOR A TURBOMACHINE

Title (de)
RINGFÖRMIGE BRENNKAMMER FÜR EINE TURBOMASCHINE

Title (fr)
CHAMBRE ANNULAIRE DE COMBUSTION POUR UNE TURBOMACHINE

Publication
EP 2710298 A1 20140326 (FR)

Application
EP 12728666 A 20120511

Priority

- FR 1154302 A 20110517
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- FR 2012051056 W 20120511

Abstract (en)
[origin: WO2012156631A1] Annular combustion chamber (10) for a turbomachine, comprising an annular row of fuel injectors (28) the tips (30) of which are engaged in fuel injection systems (126) mounted in openings (24) in the chamber end wall, each injector tip comprising at least one helical channel (42, 48) for carrying fuel in order to set this fuel in rotation about the longitudinal axis (XX) of the tip, and each injection system comprising at least one swirl inducer (154) the air passage channels (100) of which have cross sections the axes of which are inclined with respect to the longitudinal axis of the swirl inducer, by an angle (β') that is substantially equal to the helix angle (β) of the aforementioned helical channel, give or take 10° , and which are oriented in the same direction as this channel about the longitudinal axis of the swirl inducer.

IPC 8 full level
F23R 3/14 (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP RU US)
F23R 3/14 (2013.01 - EP RU US); **F23R 3/28** (2013.01 - US); **F23R 3/283** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US)

Citation (search report)
See references of WO 2012156631A1

Cited by
US10712008B2

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WO 2012156631 A1 20121122; BR 112013028196 A2 20170117; BR 112013028196 B1 20210622; CA 2835361 A1 20121122; CA 2835361 C 20190326; CN 103562641 A 20140205; CN 103562641 B 20151125; EP 2710298 A1 20140326; EP 2710298 B1 20200923; RU 2013155913 A 20150627; RU 2604260 C2 20161210; US 2014090382 A1 20140403; US 9951955 B2 20180424

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