

Title (en)
Optimisation of an anti-coke film in an injection system

Title (de)
Optimierung einer Antikoksschicht in einem Einspritzsystem

Title (fr)
Optimisation d'un film anti-coke dans un systeme d'injection

Publication
EP 2014988 B1 20121121 (FR)

Application
EP 08159886 A 20080708

Priority
FR 0756450 A 20070712

Abstract (en)
[origin: EP2014988A1] The system has an annular expansion ring (20) that is coaxial with a fuel injector, a primary spin that is coaxial with the ring, and a venturi placed downstream of the spin. The ring has an annular slot (32) that is convergent tapered towards downstream and opened towards downstream. An axis of each hole (26) of the slot forms an angle with a main axis (A) such that air releasing the holes impacts a lower wall (38) of the slot near the main axis. The angle is strictly higher than an angle formed by a cone surface defining the slot with the main axis.

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

CPC (source: EP US)
F23R 3/14 (2013.01 - EP US); **F23R 3/28** (2013.01 - EP US); **F05D 2240/35** (2013.01 - EP US); **F05D 2250/323** (2013.01 - EP US)

Cited by
FR2994713A1; EP3309458A1; CN107796016A; FR2941288A1; EP2400220A3; US10712008B2; US9562690B2; US8590312B2; WO2010081940A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 2014988 A1 20090114; EP 2014988 B1 20121121; CA 2636923 A1 20090112; CA 2636923 C 20150825; FR 2918716 A1 20090116; FR 2918716 B1 20140228; RU 2008128382 A 20100120; RU 2478876 C2 20130410; US 2009049840 A1 20090226; US 8276388 B2 20121002

DOCDB simple family (application)
EP 08159886 A 20080708; CA 2636923 A 20080710; FR 0756450 A 20070712; RU 2008128382 A 20080711; US 16595108 A 20080701