

Title (en)  
TURBINE ENGINE COMPRESSOR HAVING AIR INJECTORS

Title (de)  
TURBINENMOTORVERDICHTER MIT LUFTINJEKTOREN

Title (fr)  
COMPRESSEUR DE TURBOMACHINE AYANT DES INJECTEURS D'AIR

Publication  
**EP 2473741 B1 20181003 (FR)**

Application  
**EP 10762738 A 20100820**

Priority  
• FR 0955922 A 20090831  
• FR 2010051744 W 20100820

Abstract (en)  
[origin: WO2011023891A1] The invention relates to a turbine engine compressor, including a first housing (28a) for supporting the injectors, a second housing (28b) arranged around the first housing while forming an annular space (40) therewith, and a plurality of air injectors (38), each mounted in recesses. Each air injector has at least one inner air injection channel (48) which leads, on one side, into an outflow jet (26) of the gas stream and, on the other side, into the space formed between the housings, and, at an upstream end, an upstream rim (52) having an inner surface (52a) radially abutting against an upstream rim (44) of the corresponding recess of the first housing and an outer surface (52b) radially abutting against an inner surface of the second housing. A means for clamping the upstream rim of the air injectors between the housings enables the air injectors to be held in position in the recesses of the first housing.

IPC 8 full level  
**F04D 27/02** (2006.01); **F04D 29/42** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP US)  
**F04D 27/0207** (2013.01 - US); **F04D 27/0238** (2013.01 - EP US); **F04D 29/4213** (2013.01 - US); **F04D 29/522** (2013.01 - EP US);  
**F04D 29/684** (2013.01 - EP US)

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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011023891 A1 20110303**; BR 112012004470 A2 20200811; BR 112012004470 B1 20210126; CA 2772054 A1 20110303;  
CA 2772054 C 20170117; CN 102483070 A 20120530; CN 102483070 B 20150506; EP 2473741 A1 20120711; EP 2473741 B1 20181003;  
FR 2949518 A1 20110304; FR 2949518 B1 20111021; JP 2013503292 A 20130131; JP 5686809 B2 20150318; RU 2012112476 A 20131010;  
RU 2561838 C2 20150910; US 2012201654 A1 20120809; US 9074605 B2 20150707

DOCDB simple family (application)  
**FR 2010051744 W 20100820**; BR 112012004470 A 20100820; CA 2772054 A 20100820; CN 201080038304 A 20100820;  
EP 10762738 A 20100820; FR 0955922 A 20090831; JP 2012526099 A 20100820; RU 2012112476 A 20100820; US 201013393367 A 20100820