

Title (en)

AIR INTAKE SWIRLER FOR A TURBOMACHINE INJECTION SYSTEM COMPRISING AN AERODYNAMIC DEFLECTOR AT ITS INLET

Title (de)

LUFTEINLASSVERWIRBLER FÜR EIN TURBOMASCHINENEINSPRITZSYSTEM MIT EINEM AERODYNAMISCHEN DEFLEKTOR AN SEINEM EINLASS

Title (fr)

VRILLE D'ADMISSION D'AIR POUR SYSTÈME D'INJECTION DE TURBOMACHINE COMPRENANT UN DÉFLECTEUR AÉRODYNAMIQUE À SON ENTRÉE

Publication

**EP 3449185 A1 20190306 (FR)**

Application

**EP 17725689 A 20170428**

Priority

- FR 1653828 A 20160428
- FR 2017051017 W 20170428

Abstract (en)

[origin: WO2017187104A1] An air intake swirler (100, 200) for a turbomachine injection system (70) comprises an upstream wall (102, 202) and a downstream wall (104, 204), both of revolution about an axis (44) of the air intake swirler, and fins (106, 206) distributed about the axis (44) and connecting the upstream wall to the downstream wall so as to delimit, between the upstream wall and the downstream wall, air inlet channels (108, 208) each having an inlet (110, 210) and an outlet (112, 212). The swirler comprises two aerodynamic deflectors (120, 220) that respectively extend the downstream walls (104, 204) radially outward and that have a concavity oriented upstream. The aerodynamic deflectors extend radially facing the respective inlets (110, 210) of the air inlet channels and thus make it possible to limit the loss of pressure of the air supplied to the air inlet channels (108, 208).

IPC 8 full level

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CPC (source: EP US)

**F23R 3/14** (2013.01 - EP US); **F23R 3/26** (2013.01 - EP US); **F23R 3/28** (2013.01 - EP); **F23R 3/286** (2013.01 - US)

Citation (search report)

See references of WO 2017187104A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

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