

Title (en)
INJECTION SYSTEM FOR TURBOMACHINE, COMPRISING A SWIRLER AND MIXING BOWL VORTEX HOLES

Title (de)
EINSPRITZSYSTEM FÜR TURBOMASCHINE MIT DRALL- UND MISCHSCHÜSSELWIRBELBOHRUNGEN

Title (fr)
SYSTEME D'INJECTION POUR TURBOMACHINE, COMPRENANT UNE VRILLE ET DES TROUS TOURBILLONNAIRES DE BOL MELANGEUR

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Application
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Abstract (en)
[origin: WO2020144416A1] The invention relates to an injection system (4) for a turbomachine combustion chamber. The injection system comprises a swirler (7) and a mixing bowl (8). The mixing bowl (8) comprises a converging frustoconical portion (82) and a diverging frustoconical portion (84). The diverging frustoconical portion (84) is connected to the converging frustoconical portion (82), forming a continuous aerodynamic profile with the converging frustoconical portion (82). The diverging frustoconical portion (84) is passed through by vortex holes (81) which each comprise a circumferential component around a longitudinal axis (X-X) of the injection system and an axial component along the longitudinal axis (X-X) of the injection system.

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Citation (search report)
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