

Title (en)

VORTEX GENERATOR, AND FUEL INJECTION SYSTEM OF A GAS TURBINE WITH SUCH VORTEX GENERATOR

Title (de)

WIRBELGENERATOR UND KRAFTSTOFFEINSPRITZSYSTEM EINER GASTURBINE MIT SOLCH EINEM WIRBELGENERATOR

Title (fr)

GÉNÉRATEUR DE VORTEX ET SYSTÈME D'INJECTION DE CARBURANT D'UNE TURBINE À GAZ AVEC UN TEL GÉNÉRATEUR

Publication

EP 3147569 A1 20170329 (EN)

Application

EP 15187052 A 20150928

Priority

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Abstract (en)

A vortex generator (10), especially for a fuel injection system of a gas turbine, comprises a base area (11) and a vortex generator body (10a) extending in a tapering fashion from said base area (11) with a predetermined height (h1+h2). A rapid fuel-air mixing at allowable pressure drops for higher firing temperature gas turbines and within short burner-mixing length or time scales is achieved by said vortex generator body (10a) forming at least two partial vortex generators (VG1, VG2), whereby each of said at least two partial vortex generators (VG1, VG2) has its own trailing edge (12a, 12b).

IPC 8 full level

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CPC (source: CN EP US)

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Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

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