

Title (en)

Injection system for air and fuel with means to produce cold plasma

Title (de)

Eindüsungsvorrichtung für Luft und Brennstoff mit Mitteln zur Erzeugung von Kaltplasma

Title (fr)

Système d'injection air/carburant ayant des moyens de génération de plasmas froids

Publication

**EP 1512913 B1 20081022 (FR)**

Application

**EP 04292036 A 20040811**

Priority

FR 0310379 A 20030902

Abstract (en)

[origin: EP1512913A1] The system has internal and external spins arranged in downstream of a fuel injector. Cold plasma generation units are arranged in the downstream of the internal and external spins to generate active species in the flow of an air/fuel mixture. The generation units pre-break the molecules of the mixture. Control systems (48) control the generation units according to the functioning speed of a turbo-machine. The cold plasma generation units are formed by two pairs of electrodes (42, 42) disposed on the circumference of the end of a venturi (26).

IPC 8 full level

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CPC (source: EP US)

**F23R 3/286** (2013.01 - EP US); **F23C 2900/99005** (2013.01 - EP US); **F23K 2300/101** (2020.05 - EP US)

Cited by

FR3135114A1; RU2470171C2; EP2026007A1; FR2919672A1; US8015813B2; WO2023214129A1; DE102007025551A1; US8601819B2

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