

Title (en)  
COMBUSTOR HAVING A FLUIDIC OSCILLATOR, FOR A GAS TURBINE, AND GAS TURBINE HAVING THE COMBUSTOR

Title (de)  
BRENNER MIT FLUIDISCHEM OSZILLATOR, FÜR EINE GASTURBINE UND GASTURBINE MIT MINDESTENS EINEM DERARTIGEN BRENNER

Title (fr)  
BRÛLEUR AYANT UN OSCILLATEUR FLUIDIQUE, POUR UNE TURBINE À GAZ ET TURBINE À GAZ AYANT LE BRÛLEUR

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Application  
**EP 15763533 A 20150907**

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Abstract (en)  
[origin: WO2016037966A1] The invention relates to a burner comprising a pre-mixing passage (68) that is delimited radially outwardly by a wall and, in operation, is used to mix fuel and air, a burner lance (72, 94) and a plurality of fuel injectors being arranged in said pre-mixing passage, and said injectors extending from the burner lance (72) in the direction of the wall and comprising fuel nozzles (80, 80a, 80b). During operation, the burner allows pollutant emissions and pressure pulsations to be reduced. According to the invention, said fuel supply arrangement comprises at least one fluidic oscillator (85) that has an interaction chamber (26), an inlet (28) to said interaction chamber being connected to a fuel channel (82) of the fuel supply arrangement, a first outlet channel (86) of said interaction chamber extending at least to a first fuel nozzle (80a) and a second outlet channel (88) extending at least to a second fuel nozzle (80b), said fluidic oscillator comprising one feedback line (38a, 38b) for each outlet channel, one end of the feedback line terminating into the respective outlet channel in the region downstream of the at least one fuel nozzle, and the other end thereof terminating into an inlet region (30) of said interaction chamber.

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See references of WO 2016037966A1

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