

Title (en)

GAS TURBINE BURNER ASSEMBLY EQUIPPED WITH A HELMHOLTZ RESONATOR

Title (de)

GASTURBINENBRENNERANORDNUNG MIT EINEM HELMHOLTZ-RESONATOR

Title (fr)

ENSEMBLE DE BRÛLEUR DE TURBINE À GAZ COMPORTANT UN RÉSONATEUR D'HELMHOLTZ

Publication

EP 2938927 A1 20151104 (EN)

Application

EP 13831874 A 20131227

Priority

- IT MI20122265 A 20121228
- IB 2013061378 W 20131227

Abstract (en)

[origin: WO2014102749A1] A burner assembly for a gas turbine includes a main burner (20), extending about an axis (B), and a Helmholtz resonator (22) having a resonant chamber (35) and passages (36, 37) for fluidic connection of the resonant chamber (35) to the outside. The main burner (20) further includes an inner body (25) and an outer body (26), which extend about the axis (B), and a swirler (23), arranged between the inner body (25) and the outer body (26) and defining mixing channels (30). The resonant chamber (35) is arranged about the outer body (26) adjacent to an inlet (31) of the swirler (23). The outer body (26) delimits a portion of the resonant chamber (35) and is shaped so as to prevent direct fluidic connections between the Helmholtz resonator (22) and the mixing channels (30).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2014102749A1

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