

Title (en)

AIR INTAKE RING FOR TURBO MACHINE COMBUSTION CHAMBER INJECTION SYSTEM AND METHOD OF ATOMIZING FUEL IN AN INJECTION SYSTEM COMPRISING SAID AIR INTAKE RING

Title (de)

LUFTEINLASSRING FÜR TURBOMASCHINENBRENNKAMMERKRAFTSTOFFEINSPRITZSYSTEM UND VERFAHREN ZUR VERNEBELUNG VON KRAFTSTOFF IN EINEM EINSPRITZSYSTEM MIT SOLCH EINEM LUFTEINLASSRING

Title (fr)

COURONNE D'ADMISSION D'AIR POUR SYSTÈME D'INJECTION DE CHAMBRE DE COMBUSTION DE TURBOMACHINE ET PROCÉDÉ D'ATOMISATION DE CARBURANT DANS UN SYSTÈME D'INJECTION COMPRENANT LADITE COURONNE D'ADMISSION D'AIR

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Application

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Priority

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Abstract (en)

[origin: WO2016087780A1] In order to improve the mixing of oxidizing air within an injection system (42) with which a turbo machine combustion chamber (18) is equipped, there is proposed an air intake ring (56) the annular deflection wall (66) or venturi of which has an internal profile (68) provided with a discontinuity (90) that induces an increase in the radius (φ) of the internal profile downstream of the discontinuity. There is also proposed a method of atomizing fuel, in which fuel (82) trickling over the internal profile (68) of the annular deflection wall (66) separates from this internal profile at the discontinuity (90) so as to form droplets within a flow (76) of air, coming from an air circulation space (62) upstream of the air intake ring (56).

IPC 8 full level

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CPC (source: CN EP US)

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