

Title (en)

COMBUSTION CHAMBER/VENTURI COOLING FOR A LOW NOX EMISSION COMBUSTOR

Title (de)

VERBRENNUNGSRAUM/VENTUR-KÜHLUNG FÜR BRENNRAUM MIT GERINGER STICKOXIDEMISSION

Title (fr)

REFROIDISSEMENT DE CHAMBRE DE COMBUSTION/VENTURI POUR DISPOSITIF DE COMBUSTION A FAIBLE EMISSION DE NOX

Publication

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Application

EP 01275164 A 20011130

Priority

US 0145097 W 20011130

Abstract (en)

[origin: CA2468646A1] A method and apparatus for providing air cooling to the venturi (11) and the combustion chamber (13) in a low NO_x emission combustor (10) as used in a gas turbine engine that includes providing an annular air passage (14) surrounding the combustion chamber/venturi near the aft portion of the combustion chamber (13) passing the air along the combustion chamber (13), past the venturi (11) where the air exits (28) near the front portion of the convergent area of the venturi (11). The cooling air is heated as it passes over the combustion chamber (13) and the venturi (11) and then it is directed back into the premix chamber (12) thereby improving the efficiency of the combustor (10) while lowering the NO_x emission in the combustion process.

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F02C 1/00; **F02G 3/00**

IPC 8 full level

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