

Title (en)
CATALYTIC COMBUSTION CHAMBER FOR A GAS TURBINE

Title (de)
KATALYTISCHE GASTURBINENBRENNKAMMER

Title (fr)
CHAMBRE DE COMBUSTION CATALYTIQUE POUR TURBINE A GAZ

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Application
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Abstract (en)
[origin: DE19521356A1] The invention provides a burner with a catalytic combustion chamber. The combustion chamber is substantially cylindrically widened in the direction of flow of a fuel and has a catalytically active coating on the walls facing the fuel to oxidize the fuel. The catalytically induced combustion of a fuel results in a particularly low nitrogen oxide content in the burner's exhaust gases. At the same time, the coating of the walls does not raise the flow resistance in the burner, unlike prior art primary measures to reduce nitrogen oxides. The use of the burner in a gas turbine therefore provides particularly high efficiency with low nitrogen oxide emissions. The invention can be used in all gas turbines.

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