

Title (en)

Gas turbine combustion chamber.

Title (de)

Gasturbinenbrennkammer.

Title (fr)

Chambre de combustion pour turbines à gaz.

Publication

EP 0590338 A1 19940406 (DE)

Application

EP 93114040 A 19930902

Priority

DE 4232442 A 19920928

Abstract (en)

In a gas turbine combustion chamber in which cooling is performed by combinations of convective heat transfer mechanisms, the basic principle of which is heat dissipation by flow, the transition from the convective cooling duct (4) to the plenum ahead of the burners (5) is designed as a small diffusor (6). The total pressure loss in the overall system is thereby reduced and this leads to improved efficiency. <IMAGE>

Abstract (de)

Bei einer Gasturbinenbrennkammer, bei welcher zur Kühlung Kombinationen von konvektiven Wärmeübertragungsmechanismen verwendet werden, deren Grundprinzip die Wärmeabfuhr durch Strömung ist, ist der Übergang vom Konvektivkühlkanal (4) zum Plenum vor den Brennern (5) als Kleindiffusor (6) ausgebildet. Dadurch wird der Totaldruckverlust im Gesamtsystem vermindert, was zu einem verbesserten Wirkungsgrad führt. <IMAGE>

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F23R 3/00; **F23R 3/04**

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CPC (source: EP)

F23R 3/005 (2013.01); **F23R 3/04** (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 29 (M - 451)<2086> 5 February 1986 (1986-02-05)

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