

Title (en)  
GAS TURBINE COMBUSTOR.

Title (de)  
GASTURBINENBRENNER.

Title (fr)  
BRULEUR DE TURBINE A GAZ.

Publication  
**EP 0335978 B1 19951108 (EN)**

Application  
**EP 88907798 A 19880831**

Priority  
• JP 8800870 W 19880831  
• JP 22020687 A 19870904

Abstract (en)  
[origin: WO8902052A1] This invention relates to a gas turbine combustor of a premixing combustion system in which a fuel and the air are mixed and burnt, consisting of a cylindrical main nozzle provided on an upstream end wall of a cylindrical combustion chamber, an auxiliary nozzle formed around the main nozzle, a main premixed gas supply means for supplying a premixed gas to the main nozzle, and an auxiliary premixed gas supply means for supplying a premixed gas, the excess air ratio of which is smaller than that of the main premixed gas, to the auxiliary nozzle. Owing to this arrangement, a lean premixed gas having an excess air ratio larger than 1 can be burnt stably under low to high loads of a gas turbine.

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**F23R 3/28**

IPC 8 full level  
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CPC (source: EP)  
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Citation (examination)  
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Cited by  
US5318436A; DE102005054442B4; US5097666A; EP1531305A1; US6962055B2; US7797942B2; US10088163B2; WO9310400A1; WO2023214129A1

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