

Title (en)  
Combustor with integrated guide vanes

Title (de)  
Brennkammer mit integrierten Leitschaufeln

Title (fr)  
Chambre de combustion avec aubes de guidage intégrées

Publication  
**EP 0848210 A3 19991117 (DE)**

Application  
**EP 97810854 A 19971111**

Priority  
DE 19651881 A 19961213

Abstract (en)  
[origin: EP0848210A2] The turbine has guide vanes (1.1), between the combustion chamber and turbine are each integrated into a combustion chamber (1.2). The guide vanes and the wall (1.2.1) of the combustion chamber are in one piece and form a unit. The combustion chamber wall and the integral guide vanes sit in parts of the cold support structures (3.1) of the gas turbine unit and form cooling-air ducts (4) running partly inside the guide vanes. The inflow opening (4.1) of the cooling-air ducts is positioned near the guide vanes so that the combustion chamber wall is formed for a counterflow cooling of the combustion chamber. The guide valves have guides (4.2) for the cooling air in the ducts.

IPC 1-7  
**F23R 3/16**; **F01D 9/02**

IPC 8 full level  
**F01D 9/02** (2006.01); **F01D 9/04** (2006.01); **F02C 3/14** (2006.01); **F02C 7/00** (2006.01); **F23R 3/16** (2006.01)

CPC (source: EP US)  
**F01D 9/023** (2013.01 - EP US); **F01D 9/044** (2013.01 - EP US)

Citation (search report)

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**EP 0848210 A2 19980617**; **EP 0848210 A3 19991117**; **EP 0848210 B1 20030416**; CA 2219421 A1 19980613; CA 2219421 C 20070424; CN 1130522 C 20031210; CN 1188210 A 19980722; DE 19651881 A1 19980618; DE 59709849 D1 20030522; JP H10184387 A 19980714; TW 374821 B 19991121; US 5953919 A 19990921

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