

Title (en)

Impingement cooled gas turbine combustor with internal film cooling.

Title (de)

Stossstrahlgekühlte Gasturbinenbrennkammer mit innerer Filmkühlung.

Title (fr)

Chambre de combustion de turbine à gaz refroidie par jet heurtant la paroi et avec refroidissement interne par film.

Publication

EP 0178820 A1 19860423 (EN)

Application

EP 85307034 A 19851002

Priority

US 65755484 A 19841004

Abstract (en)

A gas turbine combustor, having a side wall formed of side wall members (12, 14, 16, 18, etc.) in telescopic relation to form annular air admission gaps 24 to obtain film cooling, a cylindrical jacket 36 encompasses at least the upstream stages of the combustor and is provided with impingement ports (38-45) located in an axial direction to provide impingement cooling upon the relatively hotter portions of the side wall members before the air in the jacket performs its film-cooling effect by entering the combustor through the annular air admission gas.

IPC 1-7

F23R 3/08; **F23M 5/08**

IPC 8 full level

F23M 5/08 (2006.01); **F23R 3/00** (2006.01); **F23R 3/02** (2006.01); **F23R 3/16** (2006.01); **F23R 3/04** (2006.01); **F23R 3/08** (2006.01)

CPC (source: EP KR)

F23M 5/085 (2013.01 - EP); **F23R 3/002** (2013.01 - EP); **F23R 3/02** (2013.01 - KR); **F23R 3/045** (2013.01 - EP); **F23R 3/06** (2013.01 - EP); **F23R 3/08** (2013.01 - EP)

Citation (search report)

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- [Y] US 4109459 A 19780829 - EKSTEDT EDWARD E, et al
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