

Title (en)
AXIALLY COMPACT GAS TURBINE BURNER AND METHOD FOR COOLING SAME

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EP 0228091 A3 19880824 (EN)

Application
EP 86118098 A 19861229

Priority
US 81590986 A 19860103

Abstract (en)
[origin: EP0228091A2] A compact burner apparatus and method for cooling same includes a burner chamber having an injection end and an exit end with a burner wall extending there between, and a source of combustion air at the exit end. The burner apparatus further includes an outer casing for conveying air along the periphery of the burner wall for convective cooling, a longitudinal duct for channeling the combustion air away from the burner wall from a location between the injection end and exit end to the relatively hot injection end, and then channeling a portion of the combustion air back along the burner wall. The apparatus still further includes apertures in the burner chamber for admitting the combustion air portion as a secondary air flow.

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IPC 8 full level
F23C 7/06 (2006.01); **F23R 3/06** (2006.01); **F23R 3/54** (2006.01)

CPC (source: EP)
F23C 7/06 (2013.01); **F23R 3/54** (2013.01)

Citation (search report)
• [A] DE 3100849 A1 19811210 - GEN ELECTRIC [US]
• [A] WO 8202084 A1 19820624 - VOLVO FLYGMOTOR AB [SE], et al
• [A] GB 2124747 A 19840222 - DAN HEUNG DUK
• [A] EP 0128541 A1 19841219 - HITACHI LTD [JP]

Cited by
EP0930462A3; CN107062223A; CN107062225A; EP0754917A3; EP0669500A1; CN107013912A; WO2018218526A1

Designated contracting state (EPC)
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