

Title (en)

Axially compact gas turbine burner and method for cooling same.

Title (de)

In axialer Richtung kompakter Gasturbinenbrenner und Verfahren zu seiner Kühlung.

Title (fr)

Brûleur compact dans le sens axial pour une turbine à gaz et procédé pour le refroidir.

Publication

EP 0228091 A2 19870708 (EN)

Application

EP 86118098 A 19861229

Priority

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Abstract (en)

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

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