

Title (en)

Cylindrical combustion chamber for gas turbine.

Title (de)

Zylindrisches Brennkammergehäuse einer Gasturbine.

Title (fr)

Chambre à combustion cylindrique pour turbine à gaz.

Publication

EP 0578048 B1 19950830 (DE)

Application

EP 93109972 A 19930623

Priority

DE 4222391 A 19920708

Abstract (en)

[origin: EP0578048A1] The invention relates to a cylindrical combustion chamber housing of a gas turbine, in which the compressor air is supplied through a lateral admission elbow (2) in an arc-shape to the lower conical part of the combustion chamber housing, the perforated cone (5). Connected directly to the admission elbow (2) is the inlet core (1), in which the compressor air is guided around the perforated cone (5) on both sides. By means of the arrangement according to the invention, a tangential flow about a cone is transformed into an axial flow through the bores (7) in the perforated cone (5). The transformation of the flow direction of the compressor air is supported by radially arranged ribs (3). As a result, an optimum cooling of the entire mixer pipe (6) is achieved, with minimisation of the pressure loss in the air supply region (1, 2 and 5) and a simultaneous increase in efficiency of the gas turbine. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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