

Title (en)
Gasturbine combustor

Title (de)
Gasturbinenbrennkammer

Title (fr)
Chambre de combustion pour turbine à gaz

Publication
EP 0599055 B1 19970611 (DE)

Application
EP 93116942 A 19931020

Priority
DE 4239856 A 19921127

Abstract (en)
[origin: EP0599055A1] In a gas-turbine combustion chamber (1) cooled by means of baffle cooling, the height of the cooling duct (5) formed by the perforated plate (3) and the baffle surface (4) increases continuously in the cross-flow direction in accordance with the cooling air feed. Tubelets (7) are arranged in the cooling duct (5) on the holes (6) of the perforated plate (3) in such a way that the air to be deflected strikes the baffle surface (4) at right angles. The height of the tubelets (7) increases in the cross-flow direction in such a way that the distance of the tubelets (7) from the baffle surface (4) is constant over the entire length of the cooling duct (5). As a result, the heat transfer coefficient remains constant along the baffle cooling section, and a uniform thermal dissipation is permitted. The cooling effect can be controlled in a pinpointed fashion by suitably selecting the diameter of the holes (6) and the height of the tubelets (7). <IMAGE>

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F23R 3/00; F23R 3/54

IPC 8 full level
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F23R 3/002 (2013.01 - EP US); **F23R 3/54** (2013.01 - EP US); **F05B 2260/201** (2013.01 - EP US); **F23R 2900/03044** (2013.01 - EP US)

Cited by
CH699309A1; EP2154431A3; US10739087B2; US10087776B2; US8413449B2; US9849510B2; EP3098386A1; WO2009103671A1; WO9618849A1; US10253986B2; US9976441B2

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