

Title (en)
TUBULAR COMBUSTION CHAMBER WITH CERAMIC CLADDING

Title (de)
ROHRBRENNKAMMER MIT KERAMISCHER AUSKLEIDUNG

Title (fr)
CHAMBRE DE COMBUSTION TUBULAIRE MUNIE D'UN REVÊTEMENT CÉRAMIQUE

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Application
EP 18810907 A 20181115

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Abstract (en)
[origin: WO2019115129A1] The invention relates to a combustion chamber (1) comprising a jacket (3) that is arranged around a principal axis (2) of the combustion chamber (1), and a ceramic tube (4) that is arranged inside the jacket (3), wherein an intermediate layer (5) is arranged between the jacket (3) and the ceramic tube (4), and the jacket (3) is at least partially conical, and the ceramic tube (4) is under axial stress in the jacket (3) along the principal axis (2), wherein the ceramic tube (4) is an assembly of multiple heat shield segments (10), wherein the heat shield segments (10) each have a hot side (11) that is designed to come into contact with a hot medium, a cold side (12) that is opposite the hot side (11) and is oriented toward the jacket (3), and a circumferential rim (13) between the hot side (11) and the cold side (12), and in the cold state individual heat shield segments (10) of a segment row (14) have, on the rim (13), bearing surfaces (15) that adjoin the cold side (12) and gaps (16) that open toward the hot gas side (11).

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Citation (search report)
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