

Title (en)
COMBUSTION CHAMBER FOR A POWER PLANT GAS TURBINE ASSEMBLY COMPRISING A PLURALITY OF METALLIC HEAT SHIELDING
TILES WITH IMPROVED AIR COOLING FEATURE

Title (de)
BRENNKAMMER FÜR EINE KRAFTWERKSGASTURBINENANORDNUNG MIT EINER VIELZAHL VON METALLISCHEN
HITZESCHILDPLATTEN MIT VERBESSERTER LUFTKÜHLUNG

Title (fr)
CHAMBRE DE COMBUSTION POUR UN ENSEMBLE TURBINE À GAZ DE CENTRALE ÉLECTRIQUE COMPRENANT UNE PLURALITÉ DE
TUILES MÉTALLIQUES DE PROTECTION THERMIQUE PRÉSENTANT UNE CARACTÉRISTIQUE DE REFROIDISSEMENT D'AIR AMÉLIORÉE

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Application
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Abstract (en)
A combustion chamber (3) for a power plant gas turbine assembly (1) wherein the combustion chamber comprises an outer casing (7) and a plurality of heat shielding tile devices (8) supported by the outer casing; wherein at least one shielding tile device comprises: a metallic tile body (9) having an inner face (10) configured for facing the hot gas flow inside the combustion chamber and an opposite outer face (11) configured for facing a plenum obtained between the outer casing and the metallic tile body and fed by cooling air; a first plurality of first cooling pipes (12) fed by the cooling air wherein the first cooling pipes are arranged parallel each other forming a first layer (16) on the outer face of the metallic tile body; a second plurality of second cooling pipes (13) fed by the cooling air wherein the second cooling pipes are arranged parallel each other forming a second layer (17) on the first plurality of first cooling pipes.

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Citation (search report)

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