

Title (en)

Segment component comprising high temperature cast material for an annular combustion chamber, annular combustion chamber for an aircraft engine, aircraft engine and method for producing an annular combustion chamber

Title (de)

Segmentbauteil aus Hochtemperaturgussmaterial für eine Ringbrennkammer, Ringbrennkammer für ein Flugzeugtriebwerk, Flugzeugtriebwerk und Verfahren zur Herstellung einer Ringbrennkammer

Title (fr)

Composant segmenté à base de matériau réfractaire pour une chambre de combustion annulaire, chambre de combustion annulaire pour un moteur d'aéronef, moteur d'aéronef et procédé de fabrication d'une chambre de combustion annulaire

Publication

EP 2527743 A3 20150121 (DE)

Application

EP 12169511 A 20120525

Priority

DE 102011076473 A 20110525

Abstract (en)

[origin: EP2527743A2] The component has inner and outer combustion chamber walls (11, 12) shielded from an environment when a fuel flame extends along burner axes (21) during operation of the component. The combustion chamber walls comprise projections in a direction away from the burner axes. The fuel flame is arranged between the combustion chamber walls. The projections of the combustion chamber walls are adapted to a contour of the fuel flame during operation of the component. Length and/or width of the projections correspond to length and/or width of the fuel flame. Independent claims are also included for the following: (1) an annular combustion chamber (2) a method for manufacturing an annular combustion chamber.

IPC 8 full level

F23R 3/50 (2006.01)

CPC (source: EP US)

F23R 3/50 (2013.01 - EP US); **F23R 2900/00018** (2013.01 - EP US); **Y10T 29/4927** (2015.01 - US)

Citation (search report)

- [X] EP 1760402 A2 20070307 - UNITED TECHNOLOGIES CORP [US]
- [X] EP 1584871 A2 20051012 - UNITED TECHNOLOGIES CORP [US]
- [AD] EP 1106927 A1 20010613 - ROLLS ROYCE DEUTSCHLAND [DE]
- [A] US 2007062198 A1 20070322 - HUTH MICHAEL [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2527743 A2 20121128; **EP 2527743 A3 20150121**; **EP 2527743 B1 20160928**; DE 102011076473 A1 20121129; US 2012304658 A1 20121206; US 8646279 B2 20140211

DOCDB simple family (application)

EP 12169511 A 20120525; DE 102011076473 A 20110525; US 201213480696 A 20120525