

Title (en)

Heat shield element, method for manufacturing the same, heat shield and combustor

Title (de)

Hitzeschildelement, Verfahren zu dessen Herstellung, Heisgasauskleidung und Brennkammer

Title (fr)

Élément de bouclier thermique, son procédé de fabrication, bouclier thermique et chambre de combustion

Publication

EP 1666797 A1 20060607 (DE)

Application

EP 04028445 A 20041201

Priority

EP 04028445 A 20041201

Abstract (en)

The heat shield element has two material areas (19,21), in the material volume, which have different thermal coefficients of expansion. The hot side (13) and cold side (15) are turned towards heating medium. The hot side is connected to the cold side with peripheral surface (17) whereby the hot side, cold side and peripheral surface have limited material volume. Independent claims are also included for the following: (A) Hot gas lining; (B) Combustion chamber; and (C) Method for manufacturing ceramic heat shield element.

IPC 8 full level

F23R 3/00 (2006.01); **F23M 5/02** (2006.01)

CPC (source: EP US)

F23M 5/02 (2013.01 - EP US); **F23R 3/002** (2013.01 - EP US)

Citation (search report)

- [XA] US 4485630 A 19841204 - KENWORTHY MILTON J [US]
- [XA] US 4838030 A 19890613 - CRAMER PAUL S [US]
- [AD] WO 9209850 A1 19920611 - SIEMENS AG [DE]
- [AD] EP 1302723 A1 20030416 - SIEMENS AG [DE]

Designated contracting state (EPC)

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EP 1666797 A1 20060607; EP 1817528 A1 20070815; EP 1817528 B1 20161019; US 2008104963 A1 20080508; WO 2006058851 A1 20060608

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EP 04028445 A 20041201; EP 05811090 A 20051122; EP 2005056127 W 20051122; US 79213005 A 20051122