

Title (en)

Ceramic heatshield element and high temperature gas reactor lined with such a heatshield

Title (de)

Keramisches Hitzeschildelement sowie damit ausgekleideter Hochtemperaturgasreaktor

Title (fr)

Bouclier thermique en céramique et réacteur à gaz hautes températures recouvert d'un tel bouclier

Publication

EP 1741981 A1 20070110 (DE)

Application

EP 05014474 A 20050704

Priority

EP 05014474 A 20050704

Abstract (en)

Gas turbine engine combustion chamber has a ceramic heat shield tile (3) with a hot side (5) directed towards the hot gases and a cold side (7) directed towards the chamber support structure. The ceramic tile has an anchorage sleeve fitting (13) embedded in a central part of the tile and secured by a bolt to the cold side of the structure.

IPC 8 full level

F23R 3/00 (2006.01); **F23M 5/00** (2006.01); **F23M 5/04** (2006.01)

CPC (source: EP)

F23M 5/00 (2013.01); **F23M 5/04** (2013.01); **F23R 3/002** (2013.01); **F23R 3/007** (2013.01); **F23M 2900/05004** (2013.01)

Citation (search report)

- [XAY] US 6145452 A 20001114 - HEGER ARMIN [CH], et al
- [X] US 5957067 A 19990928 - DOEBBELING KLAUS [CH], et al
- [X] US 5083424 A 19920128 - BECKER BERNARD [DE]
- [Y] US 6267066 B1 20010731 - SCHICKLING JAY S [US], et al
- [A] EP 0706009 A2 19960410 - SOLAR TURBINES INC [US]

Cited by

AT12612U1; EP2522907A1; DE102012022199A1; EP2270395A1; EP2341287A1; ITMI20092346A1; CN105531545A; KR20200020963A; EP2261564A1; CN102460022A; EP3139092A1; US10408451B2; US9976746B2; US9643712B1; US8800292B2; WO2012152530A1; WO2015036430A1; WO2010142510A1; US8256223B2; US8505306B2; US8313288B2; US9683743B2; US8833084B2; US10168051B2; US10773817B1; US8113004B2; US9970660B2; US11402097B2

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Designated extension state (EPC)

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