

Title (en)
THERMAL SHIELD FOR A COMPONENT CARRYING HOT GASES, ESPECIALLY FOR STRUCTURAL COMPONENTS OF GAS TURBINES

Title (de)
HITZESCHILDANORDNUNG FÜR EINE HEISSGAS FÜHRENDE KOMPONENTE, INSBESONDERE FÜR STRUKTURTEILE VON GASTURBINEN

Title (fr)
ENSEMBLE BOUCLIER THERMIQUE POUR UN COMPOSANT ACHEMINANT UN GAZ CHAUD, NOTAMMENT POUR DES PIECES DE STRUCTURE DE TURBINES A GAZ

Publication
EP 1250555 B1 20081126 (DE)

Application
EP 01914999 A 20010125

Priority
• DE 0100300 W 20010125
• DE 10003728 A 20000128

Abstract (en)
[origin: WO0155273A2] According to the invention, a hot gas chamber, for example a combustion chamber (7) of a gas turbine installation, is lined with thermal shield elements (1). A closed-circuit cooling system is provided by configuring the thermal shield element (1) as a hollow body into which cool air flows via a cool air supply channel. Once the cool air is discharged from the thermal shield element (1) through at least one opening (8), it is collected in a tiled intermediate space (5) and is then used for the combustion process.

IPC 8 full level
F23R 3/00 (2006.01); **F01D 11/00** (2006.01); **F02C 7/18** (2006.01); **F02C 7/28** (2006.01); **F23M 5/02** (2006.01); **F23M 5/04** (2006.01); **F23M 5/08** (2006.01); **F23R 3/42** (2006.01); **F27D 1/12** (2006.01)

CPC (source: EP US)
F01D 11/005 (2013.01 - EP US); **F23M 5/02** (2013.01 - EP US); **F23M 5/04** (2013.01 - EP US); **F23M 5/085** (2013.01 - EP US); **F23R 3/002** (2013.01 - EP US); **F23R 2900/03044** (2013.01 - EP US)

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
WO 0155273 A2 20010802; **WO 0155273 A3 20020207**; CN 1311195 C 20070418; CN 1395667 A 20030205; DE 10003728 A1 20010809; DE 50114520 D1 20090108; EP 1250555 A2 20021023; EP 1250555 B1 20081126; JP 2003524733 A 20030819; US 2003021675 A1 20030130; US 6786048 B2 20040907

DOCDB simple family (application)
DE 0100300 W 20010125; CN 01803912 A 20010125; DE 10003728 A 20000128; DE 50114520 T 20010125; EP 01914999 A 20010125; JP 2001561114 A 20010125; US 18233602 A 20020726