

Title (en)  
HEAT SHIELD

Title (de)  
HITZESCHILD

Title (fr)  
BOUCLIER THERMIQUE

Publication  
**EP 2992270 B1 20190327 (DE)**

Application  
**EP 14734791 A 20140627**

Priority  
• DE 102013212509 A 20130627  
• EP 2014063705 W 20140627

Abstract (en)  
[origin: WO2014207207A1] The invention relates to a heat shield (2) with a support structure (28) and a number of heat shield blocks (20, 22), said heat shield blocks being secured to the support structure (28) and having a cold side (26) facing the support structure and a hot side (24) opposite the cold side. At least one recess (34) is arranged in at least one heat shield block circumferential face (30), which connects the cold side to the hot side, in at least one heat shield block (22), and an opening (32), which connects the recess (34) to the cold side, runs in the circumferential face (30) perpendicularly to the cold side. A securing bolt (36, 56) can be inserted into the opening in order to secure the heat shield block to the support structure such that a bolt head (38, 70) of the securing bolt protrudes at least partly into the recess, and the securing bolt passes through an angled plate in a penetration region (82, 92, 104). The angled plate comprises a first limb (40a, 58a, 84a, 96a, 110a) which extends substantially parallel to the circumferential face and a second limb (40b, 58b, 84b, 96b, 110b) which extends into the recess (34), both limbs adjoining each other at an angular edge. The heat shield according to the invention allows at least one heat shield block to be secured so as to prevent the heat shield block from being removed from the support structure in a particularly reliable manner. For this purpose, the angled plate comprises a reinforcing device (74, 86, 98) which extends beyond the pure angular shape such that a resistance of the angled plate against bending due to the securing bolt is increased.

IPC 8 full level  
**F23R 3/00** (2006.01); **F23M 5/04** (2006.01)

CPC (source: EP US)  
**F23M 5/04** (2013.01 - EP); **F23R 3/002** (2013.01 - US); **F23R 3/007** (2013.01 - EP US)

Cited by  
DE102019219845A1; DE102020209977A1; WO2020200568A1; WO2021121862A1

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

DOCDB simple family (publication)  
**WO 2014207207 A1 20141231**; CN 105339738 A 20160217; CN 105339738 B 20170704; EP 2992270 A1 20160309; EP 2992270 B1 20190327; US 10330318 B2 20190625; US 2016131362 A1 20160512

DOCDB simple family (application)  
**EP 2014063705 W 20140627**; CN 201480036829 A 20140627; EP 14734791 A 20140627; US 201414898138 A 20140627