

Title (en)
Heat shield element and method for manufacturing the same

Title (de)
Feuerfestplatte sowie Verfahren zu deren Herstellung

Title (fr)
Élément de bouclier thermique et son procédé de fabrication

Publication
EP 1701122 A3 20061206 (DE)

Application
EP 06001075 A 20060119

Priority
DE 102005011789 A 20050311

Abstract (en)
[origin: EP1701122A2] An oven heats e.g. steel blocks or profiles or similar and has an internal floor consisting of a heat-resistant base panel block that is of rectangular to trapezoidal planform. The base block is made of a composite material with an upper layer with a first set of properties and a lower layer with a second set of properties. The upper layer is optimized with respect with its exposure to flame, sparks and hot scale. The lower layer is optimized with respect to impact strength.

IPC 8 full level
F27D 1/06 (2006.01); **F23G 5/50** (2006.01); **F23M 5/04** (2006.01); **F23M 5/08** (2006.01); **F27D 1/04** (2006.01); **F27D 1/12** (2006.01)

CPC (source: EP)
F23M 5/02 (2013.01); **F23M 5/04** (2013.01); **F23M 5/08** (2013.01); **F27D 1/045** (2013.01); **F27D 1/06** (2013.01); **F27D 1/12** (2013.01); **F23M 2900/05004** (2013.01)

Citation (search report)

- [X] DE 9312555 U1 19931014 - PROMAT GMBH [DE]
- [X] JP H0476387 A 19920311 - SHINAGAWA REFRACTORIES CO
- [X] DE 19543430 A1 19970528 - VGT INDUSTRIEKERAMIK GMBH [DE]
- [Y] JP H11190593 A 19990713 - KYOCERA CORP
- [Y] JP H05306161 A 19931119 - MEICHU SEIKI KK
- [A] EP 0964205 A2 19991215 - DIDIER WERKE AG [DE]
- [A] EP 0337271 A1 19891018 - SIDMAR NV [BE], et al
- [A] JP 2001201268 A 20010727 - KOBE STEEL LTD

Cited by
CN103528376A; EP2762782A1; CN103968422A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1701122 A2 20060913; EP 1701122 A3 20061206; EP 1701122 B1 20080130; AT E385304 T1 20080215; DE 102005011789 B3 20061102; DE 502006000319 D1 20080320; ES 2301094 T3 20080616; PL 1701122 T3 20080930

DOCDB simple family (application)
EP 06001075 A 20060119; AT 06001075 T 20060119; DE 102005011789 A 20050311; DE 502006000319 T 20060119; ES 06001075 T 20060119; PL 06001075 T 20060119