

Title (en)  
WATER-COOLED FIRING GRATE

Title (de)  
MIT WASSER GEKÜHLTER VERBRENNUNGSROST

Title (fr)  
GRILLE DE COMBUSTION A REFROIDISSEMENT PAR EAU

Publication  
**EP 0954722 A1 19991110 (DE)**

Application  
**EP 97913176 A 19971024**

Priority  
• DE 19650742 A 19961206  
• EP 9705893 W 19971024

Abstract (en)  
[origin: US6145451A] PCT No. PCT/EP97/05893 Sec. 371 Date May 12, 1999 Sec. 102(e) Date May 12, 1999 PCT Filed Oct. 24, 1997 PCT Pub. No. WO98/25079 PCT Pub. Date Jun. 11, 1998A water-cooled firing grate made up of grate bar blocks extending over the width of the grate and each having a plurality of grate bars mounted on a grate bar carrier and interconnected by connecting pieces communicating between meandering shaped channels in the grate bar and a pair of end pieces forming an inlet and an outlet at the outer boundaries of the block and connected to an inlet and an outlet for the cooling water. The pieces are so fixed to the bars that they maintain a clearance between the bars of 1 to 1.5 mm.

IPC 1-7  
**F23H 3/02**; **F23H 17/00**; **F23H 7/08**; **F23H 1/02**

IPC 8 full level  
**F23H 1/02** (2006.01); **F23H 3/02** (2006.01); **F23H 7/08** (2006.01); **F23H 17/00** (2006.01)

CPC (source: EP US)  
**F23H 1/02** (2013.01 - EP US); **F23H 3/02** (2013.01 - EP US); **F23H 7/08** (2013.01 - EP US); **F23H 17/00** (2013.01 - EP US);  
**F23H 2900/03021** (2013.01 - EP US)

Citation (search report)  
See references of WO 9825079A1

Cited by  
DE102004034322A1; DE102004034322B4; EP1617143A3; EP1617143A2

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 6145451 A 20001114**; AT E201501 T1 20010615; DE 19650742 C1 19980219; DE 59703629 D1 20010628; DK 0954722 T3 20010910;  
EP 0954722 A1 19991110; EP 0954722 B1 20010523; ES 2159126 T3 20010916; JP 2001505295 A 20010417; JP 3990463 B2 20071010;  
WO 9825079 A1 19980611

DOCDB simple family (application)  
**US 30819399 A 19990512**; AT 97913176 T 19971024; DE 19650742 A 19961206; DE 59703629 T 19971024; DK 97913176 T 19971024;  
EP 9705893 W 19971024; EP 97913176 A 19971024; ES 97913176 T 19971024; JP 52510398 A 19971024