

Title (en)

Grate bar and grate with cooling device and cooling method

Title (de)

Roststab und Rost mit Kühleinrichtung und Verfahren zur Kühlung

Title (fr)

Barreau de grille et grille avec dispositif de refroidissement et procédé de refroidissement

Publication

EP 0663565 B1 19981209 (DE)

Application

EP 94116297 A 19941015

Priority

DE 4400992 A 19940114

Abstract (en)

[origin: US5636581A] Fluid-cooled grate bars and grates for use in a combustion furnace such as a garbage incineration plant and a process for cooling the grate bars and grates. The grate bar has a duct defined therewithin for guiding a coolant supplied by a fluid-cooling apparatus. The primary coolant is preferably water. Steam formation is prevented by pressurizing the water. Additional or replacement coolant such, for example, as air may be employed for the grate bars and grates.

IPC 1-7

F23H 3/02; **F23H 1/02**

IPC 8 full level

F23H 1/02 (2006.01); **F23H 3/02** (2006.01)

CPC (source: EP KR US)

F23G 5/002 (2013.01 - KR); **F23H 1/02** (2013.01 - KR); **F23H 3/02** (2013.01 - EP KR US); **F23H 2700/009** (2013.01 - KR); **F23H 2900/03021** (2013.01 - EP KR US)

Cited by

DE102014008858A1; US5899149A; EP1617143A3; US6145451A; DE19860553A1; DE19860553C2; DE19860552A1; DE19860552C2; US5913274A; DE19648128C2; DE102014004660A1; WO2013029680A1; EP0844438A2; WO9623174A1; DE102014106200A1; EP2949995A2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IE IT LI NL SE

DOCDB simple family (publication)

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DOCDB simple family (application)

US 37109695 A 19950110; AT 94116297 T 19941015; CA 2140218 A 19950113; DE 4400992 A 19940114; DE 59407443 T 19941015; EP 94116297 A 19941015; ES 94116297 T 19941015; KR 19950000069 A 19950105; TW 84100294 A 19950113