

Title (en)

Grate bar and grate for combustion plants.

Title (de)

Roststab und Rost für Verbrennungsanlagen.

Title (fr)

Barreau de grille et grille pour installations de combustion.

Publication

**EP 0499912 B1 19941026 (DE)**

Application

**EP 92102124 A 19920208**

Priority

DE 4105330 A 19910218

Abstract (en)

[origin: US5245983A] A grate bar support for use in combustion furnaces, particularly rubbish incinerators, has a hollow-box shaped member having a trapezoidal cross-section along a longitudinal direction and trapezoidal cross-section along a direction transverse to the longitudinal direction, a front and a rear end and a nozzle shaped air outlet opening located at the front end of the hollow box shaped member. A grate is formed by a plurality of overlapping alternately stationary and movable rows of grate bars having a stroke which corresponds to the distance two adjacent rows of grate bars are offset with respect to each other. Preferably, the grate bar supports are arcuately shaped so as to provide a tight grate surface in both cold and hot operating conditions.

IPC 1-7

**F23H 17/12**; **F23H 3/02**

IPC 8 full level

**F23H 3/02** (2006.01); **F23H 17/12** (2006.01)

CPC (source: EP KR US)

**F23H 3/02** (2013.01 - EP US); **F23H 17/12** (2013.01 - EP KR US); **F23H 2900/03021** (2013.01 - EP US)

Cited by

DE19851471A1; EP0663565A3; WO2008072214A3

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0499912 A2 19920826**; **EP 0499912 A3 19930107**; **EP 0499912 B1 19941026**; DE 4105330 C1 19920806; DE 59200668 D1 19941201; ES 2065078 T3 19950201; KR 100200404 B1 19990615; KR 920016773 A 19920925; US 5245983 A 19930921

DOCDB simple family (application)

**EP 92102124 A 19920208**; DE 4105330 A 19910218; DE 59200668 T 19920208; ES 92102124 T 19920208; KR 920002317 A 19920217; US 83702492 A 19920214