

Title (en)
Grate bar and rotary grate.

Title (de)
Roststab und Rostwalze.

Title (fr)
Barreau de grille et grille à rouleaux.

Publication
EP 0396908 B1 19940608 (DE)

Application
EP 90106560 A 19900405

Priority
• DE 8905822 U 19890510
• DE 8905823 U 19890510

Abstract (en)
[origin: US5081939A] A bar for a rotary grate is of T-section and has an enlarged head and a fin projecting inwardly therefrom. The head is formed with an end face directed outward from the fin and a pair of substantially parallel side faces extending inward obliquely from the end face. The side faces extend at an angle of between 40 DEG and 75 DEG , preferably about 60 DEG , to the end face. Thus air exiting from inside the roller-grate drum flows obliquely to a radius from the drum-rotation axis. This ensures that even if the material being burned does not form a continuous layer on the surface of the roller, the air will be likely to impinge this material. The fin extends generally centrally from the head and has a centerline that generally bisects the head. The bar has ends formed with blocks projecting to opposite sides of the bar so that blocks of adjacent bars can interfit. Furthermore the bars are arranged in sets with the bars of each set aligned longitudinally with the bars of the same set and each bar is formed with at least one axially throughgoing hole. In this case the drum is provided with respective holding bars traversing the holes of each set of bars.

IPC 1-7
F23H 17/12; **F23H 9/02**; **F23H 1/02**

IPC 8 full level
F23H 1/02 (2006.01); **F23H 9/02** (2006.01); **F23H 17/12** (2006.01)

CPC (source: EP US)
F23H 9/02 (2013.01 - EP US); **F23H 17/12** (2013.01 - EP US)

Cited by
US5655463A; CN106594702A; DE102007020515A1; DE102007020515B4; DE19851471A1; CN103335320A

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

DOCDB simple family (publication)
US 5081939 A 19920121; AT E107007 T1 19940615; DE 59005994 D1 19940714; DK 0396908 T3 19940919; EP 0396908 A2 19901114; EP 0396908 A3 19910508; EP 0396908 B1 19940608; ES 2055819 T3 19940901

DOCDB simple family (application)
US 63861191 A 19910108; AT 90106560 T 19900405; DE 59005994 T 19900405; DK 90106560 T 19900405; EP 90106560 A 19900405; ES 90106560 T 19900405