SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

F23H GRATES (inlets for fluidisation air for fluidised bed combustion apparatus F23C 10/20); CLEANING OR RAKING GRATES

Subclass index

GRATES
With solid bars; with hollow bars.....1/00, 3/00
Double; inclined; revolving or rocking; travelling.....5/00, 7/00, 9/00, 11/00
Other types.....13/00
Details.....17/00
CLEANING ARRANGEMENTS FOR GRATES, MOVING FUEL ALONG GRATE.....15/00

1/00 **Grates with solid bars** (double grates F23H 5/00) **[1, 2006.01]**
1/02 • having provision for air supply or air preheating, e.g. air-supply or blast fittings which form part of the grate structure or serve as supports **[1, 2006.01]**
1/04 • having a variable burning surface **[1, 2006.01]**
1/06 • having bars at different levels **[1, 2006.01]**
1/08 • Vertical grates **[1, 2006.01]**

3/00 **Grates with hollow bars [1, 2006.01]**
3/02 • internally cooled **[1, 2006.01]**
3/04 • externally cooled, e.g. with water, steam, or air **[1, 2006.01]**

5/00 **Double grates [1, 2006.01]**

7/00 **Inclined grates** (inclined travelling grates F23H 11/12) **[1, 2006.01]**
7/02 • with fixed bars **[1, 2006.01]**
7/04 • • in parallel disposition **[1, 2006.01]**
7/06 • with movable bars disposed parallel to direction of fuel feeding **[1, 2006.01]**
7/08 • • reciprocating along their axes **[1, 2006.01]**
7/10 • • rocking about their axes **[1, 2006.01]**
7/12 • with movable bars disposed transversely to direction of fuel feeding **[1, 2006.01]**
7/14 • • reciprocating along their axes **[1, 2006.01]**
7/16 • • rocking about their axes **[1, 2006.01]**
7/18 • • reciprocating in an upward direction **[1, 2006.01]**

9/00 **Revolving grates; Rocking grates** (F23H 7/00 takes precedence) **[1, 2006.01]**
9/02 • Revolving cylindrical grates **[1, 2006.01]**
9/04 • Grates rocked as a whole **[1, 2006.01]**
9/06 • the bars being rocked about axes transverse to their lengths **[1, 2006.01]**
9/08 • the bars being rocked about their longitudinal axes **[1, 2006.01]**
9/10 • • and modified to move fuel along the grate **[1, 2006.01]**
9/12 • the bars being vertically movable in a plane **[1, 2006.01]**

11/00 **Travelling grates [1, 2006.01]**
11/02 • with the bars disposed on transverse bearers **[1, 2006.01]**
11/04 • with the bars pivoted at one side **[1, 2006.01]**
11/06 • with the bars movable relatively to one another **[1, 2006.01]**
11/08 • with several individually-movable grate surfaces **[1, 2006.01]**
11/10 • with special provision for supply of air from below and for regulating air supply **[1, 2006.01]**
11/12 • inclined travelling grates; Stepped travelling grates **[1, 2006.01]**
11/14 • serving as auxiliary grates **[1, 2006.01]**
11/16 • for multi-layer stoking **[1, 2006.01]**
11/18 • Details **[1, 2006.01]**
11/20 • • Driving means **[1, 2006.01]**
11/22 • • Moving fuel along grate; Cleaning of grate **[1, 2006.01]**
11/24 • • Removal of ashes; Removal of clinker **[1, 2006.01]**
11/26 • • • by dumping **[1, 2006.01]**
11/28 • • Replaceable burning-surface **[1, 2006.01]**

13/00 **Grates not covered by any of groups F23H 1/00-F23H 11/00 [1, 2006.01]**
13/02 • Basket grates, e.g. with shaking arrangement **[1, 2006.01]**
13/04 • Telescoping grates **[1, 2006.01]**
13/06 • Dumping-grates **[1, 2006.01]**
13/08 • Grates specially adapted for gas generators and also applicable to furnaces **[1, 2006.01]**

15/00 **Cleaning arrangements for grates** (not forming part of the grate F23J 1/00)**; Moving fuel along grate** (rocking grates modified for moving fuel F23H 9/10; for travelling grates F23H 11/22) **[1, 2006.01]**

17/00 **Details of grates [1, 2006.01]**
17/02 • End fittings on bars **[1, 2006.01]**

17/04 • • of travelling grates **[1, 2006.01]**

17/06 • Provision for vertical adjustment of grate **[1, 2006.01]**

17/08 • Bearers; Frames; Spacers; Supports **[1, 2006.01]**

17/10 • • Dead plates; Imperforate fuel supports **[1, 2006.01]**

17/12 • Fire-bars **[1, 2006.01]**