

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)	11/00 Travelling grates
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	11/02 • with the bars disposed on transverse bearers
1/04 • having a variable burning surface	11/04 • with the bars pivoted at one side
1/06 • having bars at different levels	11/06 • with the bars movable relatively to one another
1/08 • Vertical grates	11/08 • with several individually-movable grate surfaces
	11/10 • with special provision for supply of air from below and for regulating air supply
	11/12 • inclined travelling grates; Stepped travelling grates
3/00 Grates with hollow bars	11/14 • serving as auxiliary grates
3/02 • internally cooled	11/16 • for multi-layer stoking
3/04 • externally cooled, e.g. with water, steam, or air	11/18 • Details
	11/20 • • Driving means
5/00 Double grates	11/22 • • Moving fuel along grate; Cleaning of grate
	11/24 • • Removal of ashes; Removal of clinker
7/00 Inclined grates (inclined travelling grates F23H 11/12)	11/26 • • • by dumping
7/02 • with fixed bars	11/28 • • Replaceable burning-surface
7/04 • • in parallel disposition	
7/06 • with movable bars disposed parallel to direction of fuel feeding	13/00 Grates not covered by any of groups F23H 1/00-F23H 11/00
7/08 • • reciprocating along their axes	13/02 • Basket grates, e.g. with shaking arrangement
7/10 • • rocking about their axes	13/04 • Telescoping grates
7/12 • with movable bars disposed transversely to direction of fuel feeding	13/06 • Dumping-grates
7/14 • • reciprocating along their axes	13/08 • Grates specially adapted for gas generators and also applicable to furnaces
7/16 • • rocking about their axes	
7/18 • • reciprocating in an upward direction	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)
9/00 Revolving grates; Rocking grates (F23H 7/00 takes precedence)	
9/02 • Revolving cylindrical grates	17/00 Details of grates
9/04 • Grates rocked as a whole	17/02 • End fittings on bars
9/06 • the bars being rocked about axes transverse to their lengths	17/04 • • of travelling grates
9/08 • the bars being rocked about their longitudinal axes	17/06 • Provision for vertical adjustment of grate
9/10 • • and modified to move fuel along the grate	17/08 • Bearers; Frames; Spacers; Supports
9/12 • the bars being vertically movable in a plane	17/10 • • Dead plates; Imperforate fuel supports
	17/12 • Fire-bars