

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES (NOTE omitted)

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

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Grates with solid bars	11/10	• with special provision for supply of air from below and for controlling air supply
1/02	• having provision for air supply or air preheating, e.g. air-supply or blast fittings which form a part of the grate structure or serve as supports	11/12	• inclined travelling grates; Stepped travelling grates
1/04	• having a variable burning surface	11/14	• serving as auxiliary grates
1/06	• having bars at different levels (double grates F23H 5/00)	11/16	• for multi-layer stoking
1/08	• Vertical grates	11/18	• Details
		11/20	• . Driving-means
		11/22	• . Moving fuel along grate; Cleaning of grate
3/00	Grates with hollow bars	11/24	• . Removal of ashes; Removal of clinker
3/02	• internally cooled	11/26	• . . by dumping
3/04	• externally cooled, e.g. with water, steam or air	11/28	• . Replaceable burning-surface
5/00	Double grates	13/00	Grates not covered by any preceding group
7/00	Inclined {or stepped} grates (inclined travelling grates F23H 11/12)	13/02	• Basket grates, e.g. with shaking arrangement
7/02	• with fixed bars	13/04	• Telescoping-grates
7/04	• . in parallel disposition	13/06	• Dumping-grates
7/06	• with movable bars disposed parallel to direction of fuel feeding	13/08	• Grates specially adapted for gas generators and also applicable to furnaces
7/08	• . reciprocating along their axes	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)
7/10	• . rocking about their axes	17/00	Details of grates
7/12	• with movable bars disposed transversely to direction of fuel feeding	17/02	• End fittings on bars
7/14	• . reciprocating along their axis	17/04	• . of travelling-grates
7/16	• . rocking about their axes	17/06	• Provision for vertical adjustment of grate
7/18	• . reciprocating in an upward direction	17/08	• Bearers; Frames; Spacers; Supports
9/00	Revolving-grates; Rocking-grates (F23H 7/00 takes precedence)	17/10	• . Dead plates; Imperforate fuel supports
9/02	• Revolving cylindrical grates	17/12	• Fire-bars
9/04	• Grates rocked as a whole	2700/00	Grates characterised by special features or applications
9/06	• the bars being rocked about axes transverse to their lengths	2700/001	• Grates specially adapted for steam boilers
9/08	• the bars being rocked about their longitudinal axes	2700/002	• Inclined grates with longitudinally movable gratebars
9/10	• . and modified to move fuel along the grate	2700/003	• Stepped grates with rotatable or slidable gratebars
9/12	• the bars being vertically movable in a plane	2700/004	• Rotary grates with horizontal axis
11/00	Travelling-grates	2700/005	• Rotary grates with vertical axis
11/02	• with the bars disposed on transverse bearers	2700/006	• Grates of basket-type
11/04	• with the bars pivoted at one side	2700/007	• Basket grates with shaking arrangement
11/06	• with the bars movable relatively to one another	2700/008	• Mobile grates
11/08	• with several individually-movable grate surfaces		

F23H

2700/009 . Grates specially adapted for incinerators

2900/00 Special features of combustion grates

2900/03021 . Liquid cooled grates

2900/09041 . Vibrating grates for solid fuels ([specially adapted for incinerators F23G 2203/107](#))

2900/17001 . Specific materials therefor

2900/17002 . Detachable or removable worn-out parts