

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

1/00	Grates with solid bars	11/16	• for multi-layer stoking
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	11/18	• Details
1/04	• having a variable burning surface	11/20	• • Driving-means
1/06	• having bars at different levels (double grates F23H 5/00)	11/22	• • Moving fuel along grate; Cleaning of grate
1/08	• Vertical grates	11/24	• • Removal of ashes; Removal of clinker
3/00	Grates with hollow bars	11/26	• • • by dumping
3/02	• internally cooled	11/28	• • Replaceable burning-surface
3/04	• externally cooled, e.g. with water, steam or air	13/00	Grates not covered by any preceding group
5/00	Double grates	13/02	• Basket grates, e.g. with shaking arrangement
7/00	Inclined {or stepped} grates (inclined travelling grates F23H 11/12)	13/04	• Telescoping-grates
7/02	• with fixed bars	13/06	• Dumping-grates
7/04	• • in parallel disposition	13/08	• Grates specially adapted for gas generators and also applicable to furnaces
7/06	• with movable bars disposed parallel to direction of fuel feeding	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)
7/08	• • reciprocating along their axes	17/00	Details of grates
7/10	• • rocking about their axes	17/02	• End fittings on bars
7/12	• with movable bars disposed transversely to direction of fuel feeding	17/04	• • of travelling-grates
7/14	• • reciprocating along their axis	17/06	• Provision for vertical adjustment of grate
7/16	• • rocking about their axes	17/08	• Bearers; Frames; Spacers; Supports
7/18	• • reciprocating in an upward direction	17/10	• • Dead plates; Imperforate fuel supports
9/00	Revolving-grates; Rocking-grates (F23H 7/00 takes precedence)	17/12	• Fire-bars
9/02	• Revolving cylindrical grates	2700/00	Grates characterised by special features or applications
9/04	• Grates rocked as a whole	2700/001	• Grates specially adapted for steam boilers
9/06	• the bars being rocked about axes transverse to their lengths	2700/002	• Inclined grates with longitudinally movable gratebars
9/08	• the bars being rocked about their longitudinal axes	2700/003	• Stepped grates with rotatable or slidable gratebars
9/10	• • and modified to move fuel along the grate	2700/004	• Rotary grates with horizontal axis
9/12	• the bars being vertically movable in a plane	2700/005	• Rotary grates with vertical axis
11/00	Travelling-grates	2700/006	• Grates of basket-type
11/02	• with the bars disposed on transverse bearers	2700/007	• Basket grates with shaking arrangement
11/04	• with the bars pivoted at one side	2700/008	• Mobile grates
11/06	• with the bars movable relatively to one another	2700/009	• Grates specially adapted for incinerators
11/08	• with several individually-movable grate surfaces	2900/00	Special features of combustion grates
11/10	• with special provision for supply of air from below and for controlling air supply	2900/03021	• Liquid cooled grates
11/12	• inclined travelling grates; Stepped travelling grates	2900/09041	• Vibrating grates for solid fuels (specially adapted for incinerators F23G 2203/107)
11/14	• serving as auxiliary grates	2900/17001	• Specific materials therefor
		2900/17002	• Detachable or removable worn-out parts