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 <u>F23C 10/20</u>); 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 (double grates F23H 5/00)	11/08	. with several individually-movable grate surfaces
1/02	 having provision for air supply or air preheating, e.g. air-supply or blast fittings which form a part of 	11/10	 with special provision for supply of air from below and for controlling air supply
	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 	11/16	• for multi-layer stoking
1/08	• Vertical grates	11/18	• Details
2/00		11/20	Driving-means
3/00	Grates with hollow bars	11/22	Moving fuel along grate; Cleaning of grate
3/02	• internally cooled	11/24	Removal of ashes; Removal of clinker
3/04	• externally cooled, e.g. with water, steam or air	11/26	by dumping
5/00	Double grates	11/28	Replaceable burning-surface
7/00	Inclined {or stepped} grates (inclined travelling grates F23H 11/12)	13/00	Grates not covered by any of groups F23H 1/00-F23H 11/00
7/02	 with fixed bars 	13/02	Basket grates, e.g. with shaking arrangement
7/04	in parallel disposition	13/04	Telescoping grates
7/06	• with movable bars disposed parallel to direction of	13/06	• Dumping grates
	fuel feeding	13/08	• Grates specially adapted for gas generators and also
7/08	 reciprocating along their axes 		applicable to furnaces
7/10	 rocking about their axes 	15/00	Cleaning arrangements for grates (not forming part
7/12	 with movable bars disposed transversely to direction of fuel feeding 	15/00	of the grate <u>F23J 1/00</u>); Moving fuel along grates
7/14	reciprocating along their axis		(grates with bars rocked about their longitudinal axes
7/16	rocking about their axes		and specially adapted for moving fuel along the grate F23H 9/10; for travelling-grates F23H 11/22)
7/18	reciprocating in an upward direction		<u>12311 7/10</u> , for travelling-grates <u>12311 11/22</u>)
0/00	Danishina anatan Dashina an shakina anatan	17/00	Details of grates
9/00	Revolving-grates; Rocking or shaking grates (inclined grates F23H 7/00)	17/02	 End fittings on bars
9/02	Revolving cylindrical grates	17/04	• of travelling-grates
9/04	Grates rocked as a whole	17/06	 Provision for vertical adjustment of grate
9/06	 the bars being rocked about axes transverse to their 	17/08	 Bearers; Frames; Spacers; Supports
2/00	lengths	17/10	Dead plates; Imperforate fuel supports
9/08	 the bars being rocked about their longitudinal axes 	17/12	• Fire-bars
3700	(inclined grates with movable bars disposed parallel	2700/00	Creates showestories d by special features or
	to the direction of fuel feeding and rocking about	2700/00	Grates characterised by special features or applications
	their axes <u>F23H 7/10</u>)	2700/001	Grates specially adapted for steam boilers
9/10	and modified to move fuel along the grate	2700/001	Inclined grates with longitudinally movable
9/12	. the bars being vertically movable in a plane	2700/002	gratebars
11/00	Travelling-grates	2700/003	Stepped grates with rotatable or slidable gratebars
11/02	• with the bars disposed on transverse bearers	2700/004	Rotary grates with horizontal axis
11/04	• with the bars pivoted at one side	2700/005	Rotary grates with vertical axis
11/06	• with the bars movable relatively to one another	2700/006	Grates of basket-type
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F23H

2700/007	 Basket grates with shaking arrangement
2700/008	Mobile grates
2700/009	 Grates specially adapted for incinerators
2000/00	
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

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