

CPC**COOPERATIVE PATENT CLASSIFICATION****F23H**

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

F23H 1/00**Grates with solid bars**[F23H 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

[F23H 1/04](#)

- having a variable burning surface

[F23H 1/06](#)

- having bars at different levels ([double grates F23H 5/00](#))

[F23H 1/08](#)

- Vertical grates

F23H 3/00**Grates with hollow bars**[F23H 3/02](#)

- internally cooled

[F23H 3/04](#)

- externally cooled, e.g. with water, steam or air

F23H 5/00**Double grates****F23H 7/00****Inclined {or stepped} grates** ([inclined travelling grates F23H 11/12](#))[F23H 7/02](#)

- with fixed bars

[F23H 7/04](#)

- . in parallel disposition

[F23H 7/06](#)

- with movable bars disposed parallel to direction of fuel feeding

[F23H 7/08](#)

- . reciprocating along their axes

[F23H 7/10](#)

- . rocking about their axes

[F23H 7/12](#)

- with movable bars disposed transversely to direction of fuel feeding

[F23H 7/14](#)

- . reciprocating along their axis

[F23H 7/16](#)

- . rocking about their axes

[F23H 7/18](#)

- . reciprocating in an upward direction

F23H 9/00**Revolving-grates; Rocking-grates** ([F23H 7/00](#) takes precedence)[F23H 9/02](#)

- Revolving cylindrical grates

[F23H 9/04](#)

- Grates rocked as a whole

[F23H 9/06](#)

- the bars being rocked about axes transverse to their lengths

[F23H 9/08](#)

- the bars being rocked about their longitudinal axes

[F23H 9/10](#)

- . and modified to move fuel along the grate

[F23H 9/12](#)

- the bars being vertically movable in a plane

F23H 11/00**Travelling-grates**[F23H 11/02](#)

- with the bars disposed on transverse bearers

[F23H 11/04](#)

- with the bars pivoted at one side

[F23H 11/06](#)

- with the bars movable relatively to one another

[F23H 11/08](#)

- with several individually-movable grate surfaces

F23H 11/10	<ul style="list-style-type: none"> with special provision for supply of air from below and for regulating air supply
F23H 11/12	<ul style="list-style-type: none"> inclined travelling grates; Stepped travelling grates
F23H 11/14	<ul style="list-style-type: none"> serving as auxiliary grates
F23H 11/16	<ul style="list-style-type: none"> for multi-layer stoking
F23H 11/18	<ul style="list-style-type: none"> Details
F23H 11/20	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Driving-means
F23H 11/22	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Moving fuel along grate; Cleaning of grate
F23H 11/24	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Removal of ashes; Removal of clinker
F23H 11/26	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> by dumping
F23H 11/28	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Replaceable burning-surface
F23H 13/00	Grates not covered by any preceding group
F23H 13/02	<ul style="list-style-type: none"> Basket grates, e.g. with shaking arrangement
F23H 13/04	<ul style="list-style-type: none"> Telescoping-grates
F23H 13/06	<ul style="list-style-type: none"> Dumping-grates
F23H 13/08	<ul style="list-style-type: none"> Grates specially adapted for gas generators and also applicable to furnaces
F23H 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)
F23H 17/00	Details of grates
F23H 17/02	<ul style="list-style-type: none"> End fittings on bars
F23H 17/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> of travelling-grates
F23H 17/06	<ul style="list-style-type: none"> Provision for vertical adjustment of grate
F23H 17/08	<ul style="list-style-type: none"> Bearers; Frames; Spacers; Supports
F23H 17/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Dead plates; Imperforate fuel supports
F23H 17/12	<ul style="list-style-type: none"> Fire-bars
F23H 2700/00	Grates characterised by special features or applications
F23H 2700/001	<ul style="list-style-type: none"> Grates specially adapted for steam boilers
F23H 2700/002	<ul style="list-style-type: none"> Inclined grates with longitudinally movable gratebars
F23H 2700/003	<ul style="list-style-type: none"> Stepped grates with rotatable or slidable gratebars
F23H 2700/004	<ul style="list-style-type: none"> Rotary grates with horizontal axis
F23H 2700/005	<ul style="list-style-type: none"> Rotary grates with vertical axis
F23H 2700/006	<ul style="list-style-type: none"> Grates of basket-type
F23H 2700/007	<ul style="list-style-type: none"> Basket grates with shaking arrangement
F23H 2700/008	<ul style="list-style-type: none"> Mobile grates
F23H 2700/009	<ul style="list-style-type: none"> Grates specially adapted for incinerators
F23H 2900/00	Special features of combustion grates
F23H 2900/03021	<ul style="list-style-type: none"> Liquid cooled grates

- F23H 2900/09041 . Vibrating grates for solid fuels ([specially adapted for incinerators](#)
[F23G 2203/107](#))
- F23H 2900/17001 . Specific materials therefor
- F23H 2900/17002 . Detachable or removable worn-out parts