

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.

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