

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

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