SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

F23G CREMATION FURNACES; CONSUMING WASTE OR LOW GRADE FUELS BY COMBUSTION

Subclass index

CREMATION.....1/00
CONSUMING WASTE OR LOW-GRADE FUELS BY COMBUSTION
Processes; Functional types of apparatus.....5/00
Adaptation for specific waste or fuels.....7/00
Details; Accessories.....5/44
Control or safety arrangements.....5/50

1/00 Methods or apparatus specially adapted for cremation of human or animal carcasses [1, 2006.01]

5/00 Methods or apparatus, e.g. incinerators, specially adapted for combustion of waste or low-grade fuels [1, 4, 2006.01]

5/02 • including pretreatment **[1, 4, 2006.01]**
5/027 • • pyrolising or gasifying (pyrolisation of sludge C02F 11/00; destructive distillation of carbonaceous materials C10B 53/00) **[4, 2006.01]**
5/033 • • comminuting or crushing **[4, 2006.01]**
5/04 • • drying **[1, 4, 2006.01]**
5/05 • • • using drying grates **[4, 2006.01]**
5/08 • including supplementary heating **[1, 4, 2006.01]**
5/10 • • using electric means **[1, 4, 2006.01]**
5/12 • • using gaseous or liquid fuel (F23G 5/14 takes precedence) **[1, 4, 2006.01]**
5/14 • • including secondary combustion **[4, 2006.01]**
5/16 • • • in a separate combustion chamber **[4, 2006.01]**
5/18 • • • in a stack **[4, 2006.01]**
5/20 • with combustion in rotating or oscillating drums **[4, 2006.01]**
5/22 • • the drums being conically shaped **[4, 2006.01]**
5/24 • with combustion in a vertical, substantially cylindrical, combustion chamber **[4, 2006.01]**
5/26 • • having rotating bottom **[4, 2006.01]**
5/28 • • having raking arms **[4, 2006.01]**
5/30 • with combustion in a fluidised bed **[4, 2006.01]**
5/32 • in which the waste or low-grade fuel is subjected to a whirling movement, e.g. cyclonic incinerators **[4, 2006.01]**
5/34 • in which the waste or low-grade fuel is burnt in a pit or arranged in a heap for combustion **[4, 2006.01]**
5/36 • with combustion in a conical combustion chamber, e.g. "teepee" incinerators (F23G 5/22 takes precedence) **[4, 2006.01]**
5/38 • having multi-hearth arrangements **[4, 2006.01]**
5/40 • Portable or mobile apparatus **[4, 2006.01]**
5/42 • • of the basket type **[4, 2006.01]**
5/44 • Details; Accessories **[4, 2006.01]**
5/46 • • Recuperation of heat **[4, 2006.01]**
5/48 • • Preventing corrosion **[4, 2006.01]**
5/50 • Control or safety arrangements **[4, 2006.01]**

7/00 Methods or apparatus, e.g. incinerators, specially adapted for combustion of specific waste or low grade fuels, e.g. chemicals (F23G 1/00 takes precedence; incinerator closets A47K 11/02; oxidation of sludge C02F 11/06; incinerating radioactive waste G21F 9/00) **[1, 4, 2006.01]**

7/02 • of bagasse, megasse or the like **[1, 4, 2006.01]**
7/04 • of waste liquors, e.g. sulfite liquors **[1, 4, 2006.01]**
7/05 • of waste oils **[4, 2006.01]**
7/06 • of waste gases or noxious gases, e.g. exhaust gases (exhaust apparatus for engines with means for rendering the exhaust innocuous, e.g. by thermal or catalytic conversion, F01N 3/08; combustion of uncombusted material from primary combustion within apparatus for combustion of solid or fluid fuel F23B, F23C) **[1, 4, 2006.01]**
7/07 • • in which combustion takes place in the presence of catalytic material **[2006.01]**
7/08 • • using flares, e.g. in stacks **[4, 2006.01]**
7/10 • of field or garden waste **[4, 2006.01]**
7/12 • of plastics, e.g. rubber **[4, 2006.01]**
7/14 • of contaminated soil, e.g. soil contaminated by oil **[4, 2006.01]**