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

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

F23Q IGNITION (devices for igniting matches A24F; chemical igniters C06C 9/00); EXTINGUISHING DEVICES

Subclass index

IGNITERS
- Mechanical....1/00
- Using electric sparks....3/00, 5/00
- Incandescent....7/00
- With pilot flame....9/00
- By catalysis....11/00
- Other....13/00

REMOTE IGNITION....21/00
TESTING....23/00
LIGHTERS CONTAINING FUEL....2/00, 3/01, 7/00
EXTINGUISHING DEVICES....25/00

1/00 Mechanical ignition (lighters containing fuel F23Q 2/00; matches C06F) **[1, 2006.01]**
1/02 • using friction or shock effects **[1, 2006.01]**
1/04 • • on a part moved by the fuel-controlling member, e.g. by a tap on a gas cooker **[1, 2006.01]**
1/06 • • Portable igniters **[1, 2006.01]**

2/00 Lighters containing fuel, e.g. for cigarettes [1, 2006.01]
2/02 • Lighters with liquid fuel **[1, 2006.01]**
2/04 • • with cerium-iron alloy and wick **[1, 2006.01]**
2/06 • • • with friction wheel **[1, 2006.01]**
2/08 • • • • with ignition by spring action of the cover **[1, 2006.01]**
2/10 • • • with other friction member **[1, 2006.01]**
2/12 • • with cerium-iron alloy without wick **[1, 2006.01]**
2/14 • • with cerium-iron alloy and torch ignited by striking or pushing **[1, 2006.01]**
2/16 • Lighters with gaseous fuel, e.g. the gas being stored in liquid phase **[1, 2006.01]**
2/167 • • with adjustable flame **[3, 2006.01]**
2/173 • • • Valves therefor **[3, 2006.01]**
2/18 • Lighters with solid fuel **[1, 2006.01]**
2/20 • • with cerium-iron alloy and friction wheel **[1, 2006.01]**
2/22 • • with cerium-iron alloy and tinder **[1, 2006.01]**
2/24 • • with ignition pills or strips with inflammable parts **[1, 2006.01]**
2/26 • • combined with liquid-fuel lighters **[1, 2006.01]**
2/28 • Lighters characterised by electrical ignition of the fuel **[1, 2006.01]**
2/30 • Lighters characterised by catalytic ignition of fuel **[1, 2006.01]**
2/32 • Lighters characterised by being combined with other objects (combinations with smokers' equipment A24F) **[1, 2006.01]**
2/34 • Component parts or accessories **[1, 2006.01]**
2/36 • • Casings **[1, 2006.01]**
2/38 • • • with containers for flints or tools **[1, 2006.01]**
2/40 • • Cover fastenings **[1, 2006.01]**
2/42 • • Fuel containers; Closures for fuel containers **[1, 2006.01]**
2/44 • • Wicks; Wick guides or fastenings **[1, 2006.01]**
2/46 • • Friction wheels; Arrangement of friction wheels **[1, 2006.01]**
2/48 • • Flints (composition, manufacture C06C 15/00); Guides for, or arrangements of, flints **[1, 2006.01]**
2/50 • • Protecting coverings **[1, 2006.01]**
2/52 • • Filling devices **[1, 2006.01]**

3/00 Ignition using electrically-produced sparks (lighters containing fuel F23Q 2/28; sparking-plugs H01T 13/00) **[1, 2006.01]**
3/01 • Hand-held lighters, e.g. for cigarettes **[1, 2006.01]**

5/00 Make-and-break ignition, i.e. with spark generated between electrodes by breaking contact therebetween [1, 2006.01]

7/00 Incandescent ignition; Ignition using electrically-produced heat, e.g. lighters for cigarettes; Electrically-heated glowing plugs [1, 2006.01]
7/02 • for igniting solid fuel **[1, 2006.01]**
7/04 • • with fans for transfer of heat to fuel **[1, 2006.01]**
7/06 • Igniters structurally associated with fluid-fuel burners (lighters containing fuel F23Q 2/00) **[1, 2006.01]**
7/08 • • for evaporating and igniting liquid fuel, e.g. in hurricane lanterns **[1, 2006.01]**
7/10 • • for gaseous fuel, e.g. in welding appliances **[1, 2006.01]**
7/12 • • • actuated by gas-controlling device **[1, 2006.01]**
7/14 • Portable igniters **[1, 2006.01]**
7/16 • • with built-in battery **[1, 2006.01]**

7/18 • • with built-in generator **[1, 2006.01]**
7/20 • • with built-in mains transformer **[1, 2006.01]**
7/22 • Details **[1, 2006.01]**
7/24 • • Safety arrangements **[1, 2006.01]**
7/26 • • • Provision for re-ignition **[1, 2006.01]**

9/00 Ignition by a pilot flame [1, 2006.01]
9/02 • without interlock with main fuel supply **[1, 2006.01]**
9/04 • • for upright burners, e.g. gas-cooker burners **[1, 2006.01]**
9/06 • • for inverted burners, e.g. gas lamps **[1, 2006.01]**
9/08 • with interlock with main fuel supply **[1, 2006.01]**
9/10 • • to determine the sequence of supply of fuel to pilot and main burners **[1, 2006.01]**
9/12 • • to permit the supply to the main burner in dependence upon existence of pilot flame **[1, 2006.01]**
9/14 • • • using electric means, e.g. by light-sensitive elements **[1, 2006.01]**

11/00 Arrangement of catalytic igniters [1, 2006.01]
11/04 • at the burner **[1, 2006.01]**
11/06 • remote from the burner, e.g. on the chimney of a lamp **[1, 2006.01]**
11/08 • on a part moved by the fuel-controlling member **[1, 2006.01]**
11/10 • • and moving out of the flame after ignition **[1, 2006.01]**

13/00 Ignition not otherwise provided for [1, 2006.01]
13/02 • using gas burners, e.g. gas pokers **[1, 2006.01]**
13/04 • using portable burners, e.g. torches, fire pots **[1, 2006.01]**

21/00 Devices for effecting ignition from a remote location [1, 2006.01]

23/00 Testing of ignition installations (peculiar to internal-combustion engines F02P 17/00; testing of sparking plugs H01T 13/58) **[1, 2006.01]**
23/02 • Testing of ignition timing **[1, 2006.01]**
23/08 • Testing of components **[1, 2006.01]**
23/10 • • electrically **[1, 2006.01]**

25/00 Extinguishing devices, e.g. for blowing-out or snuffing candle flames [1, 2006.01]