

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

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IGNITERS

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1/00 Mechanical ignition (lighters containing fuel F23Q 2/00; matches C06F)

- 1/02 • using friction or shock effects
- 1/04 • • on a part moved by the fuel-controlling member, e.g. by a tap on a gas cooker
- 1/06 • • Portable igniters

2/00 Lighters containing fuel, e.g. for cigarettes

- 2/02 • Lighters with liquid fuel
- 2/04 • • with cerium-iron alloy and wick
- 2/06 • • • with friction wheel
- 2/08 • • • • with ignition by spring action of the cover
- 2/10 • • • with other friction member
- 2/12 • • with cerium-iron alloy without wick
- 2/14 • • with cerium-iron alloy and torch ignited by striking or pushing
- 2/16 • Lighters with gaseous fuel, e.g. the gas being stored in liquid phase
- 2/167 • • with adjustable flame [3]
- 2/173 • • • Valves therefor [3]
- 2/18 • Lighters with solid fuel
- 2/20 • • with cerium-iron alloy and friction wheel
- 2/22 • • with cerium-iron alloy and tinder
- 2/24 • • with ignition pills or strips with inflammable parts
- 2/26 • • combined with liquid-fuel lighters
- 2/28 • Lighters characterised by electrical ignition of the fuel
- 2/30 • Lighters characterised by catalytic ignition of fuel
- 2/32 • Lighters characterised by being combined with other objects (combinations with smokers' equipment A24F)
- 2/34 • Component parts or accessories
- 2/36 • • Casings
- 2/38 • • • with containers for flints or tools
- 2/40 • • Cover fastenings

- 2/42 • • Fuel containers; Closures for fuel containers
- 2/44 • • Wicks; Wick guides or fastenings
- 2/46 • • Friction wheels; Arrangement of friction wheels
- 2/48 • • Flints (composition, manufacture C06C 15/00); Guides for, or arrangements of, flints
- 2/50 • • Protecting coverings
- 2/52 • • Filling devices

3/00 Ignition using electrically-produced sparks (lighters containing fuel F23Q 2/28; sparking-plugs H01T 13/00)

- 3/01 • Hand-held lighters, e.g. for cigarettes

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

7/00 Incandescent ignition; Ignition using electrically-produced heat, e.g. lighters for cigarettes; Electrically-heated glowing plugs

- 7/02 • for igniting solid fuel
- 7/04 • • with fans for transfer of heat to fuel
- 7/06 • Igniters structurally associated with fluid-fuel burners (lighters containing fuel F23Q 2/00)
- 7/08 • • for evaporating and igniting liquid fuel, e.g. in hurricane lanterns
- 7/10 • • for gaseous fuel, e.g. in welding appliances
- 7/12 • • • actuated by gas-controlling device
- 7/14 • Portable igniters
- 7/16 • • with built-in battery
- 7/18 • • with built-in generator
- 7/20 • • with built-in mains transformer
- 7/22 • Details
- 7/24 • • Safety arrangements
- 7/26 • • • Provision for re-ignition

9/00 Ignition by a pilot flame

- 9/02 • without interlock with main fuel supply

F23Q

- 9/04 • • for upright burners, e.g. gas-cooker burners
- 9/06 • • for inverted burners, e.g. gas lamps
- 9/08 • with interlock with main fuel supply
- 9/10 • • to determine the sequence of supply of fuel to pilot and main burners
- 9/12 • • to permit the supply to the main burner in dependence upon existence of pilot flame
- 9/14 • • • using electric means, e.g. by light-sensitive elements

11/00 Arrangement of catalytic igniters

- 11/04 • at the burner
- 11/06 • remote from the burner, e.g. on the chimney of a lamp
- 11/08 • on a part moved by the fuel-controlling member
- 11/10 • • and moving out of the flame after ignition

13/00 Ignition not otherwise provided for

- 13/02 • using gas burners, e.g. gas pokers
- 13/04 • using portable burners, e.g. torches, fire pots

21/00 Devices for effecting ignition from a remote location

23/00 Testing of ignition installations (peculiar to internal-combustion engines F02P 17/00; testing of sparking plugs H01T 13/58)

- 23/02 • Testing of ignition timing
- 23/08 • Testing of components
- 23/10 • • electrically

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