

# 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

<b>1/00</b>	<b>Mechanical ignition</b> (lighters containing fuel F23Q 2/00; matches C06F) [1, 2006.01]	2/34	• Component parts or accessories [1, 2006.01]
1/02	• using friction or shock effects [1, 2006.01]	2/36	• • Casings [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]	2/38	• • • with containers for flints or tools [1, 2006.01]
1/06	• • Portable igniters [1, 2006.01]	2/40	• • Cover fastenings [1, 2006.01]
<b>2/00</b>	<b>Lighters containing fuel, e.g. for cigarettes</b> [1, 2006.01]	2/42	• • Fuel containers; Closures for fuel containers [1, 2006.01]
2/02	• Lighters with liquid fuel [1, 2006.01]	2/44	• • Wicks; Wick guides or fastenings [1, 2006.01]
2/04	• • with cerium-iron alloy and wick [1, 2006.01]	2/46	• • Friction wheels; Arrangement of friction wheels [1, 2006.01]
2/06	• • • with friction wheel [1, 2006.01]	2/48	• • Flints (composition, manufacture C06C 15/00); Guides for, or arrangements of, flints [1, 2006.01]
2/08	• • • • with ignition by spring action of the cover [1, 2006.01]	2/50	• • Protecting coverings [1, 2006.01]
2/10	• • • with other friction member [1, 2006.01]	2/52	• • Filling devices [1, 2006.01]
2/12	• • with cerium-iron alloy without wick [1, 2006.01]	<b>3/00</b>	<b>Ignition using electrically-produced sparks</b> (lighters containing fuel F23Q 2/28; sparking-plugs H01T 13/00) [1, 2006.01]
2/14	• • with cerium-iron alloy and torch ignited by striking or pushing [1, 2006.01]	3/01	• Hand-held lighters, e.g. for cigarettes [1, 2006.01]
2/16	• Lighters with gaseous fuel, e.g. the gas being stored in liquid phase [1, 2006.01]	<b>5/00</b>	<b>Make-and-break ignition, i.e. with spark generated between electrodes by breaking contact therebetween</b> [1, 2006.01]
2/167	• • with adjustable flame [3, 2006.01]	<b>7/00</b>	<b>Incandescent ignition; Ignition using electrically-produced heat, e.g. lighters for cigarettes; Electrically-heated glowing plugs</b> [1, 2006.01]
2/173	• • • Valves therefor [3, 2006.01]	7/02	• for igniting solid fuel [1, 2006.01]
2/18	• Lighters with solid fuel [1, 2006.01]	7/04	• • with fans for transfer of heat to fuel [1, 2006.01]
2/20	• • with cerium-iron alloy and friction wheel [1, 2006.01]	7/06	• Igniters structurally associated with fluid-fuel burners (lighters containing fuel F23Q 2/00) [1, 2006.01]
2/22	• • with cerium-iron alloy and tinder [1, 2006.01]	7/08	• • for evaporating and igniting liquid fuel, e.g. in hurricane lanterns [1, 2006.01]
2/24	• • with ignition pills or strips with inflammable parts [1, 2006.01]	7/10	• • for gaseous fuel, e.g. in welding appliances [1, 2006.01]
2/26	• • combined with liquid-fuel lighters [1, 2006.01]	7/12	• • • actuated by gas-controlling device [1, 2006.01]
2/28	• Lighters characterised by electrical ignition of the fuel [1, 2006.01]	7/14	• Portable igniters [1, 2006.01]
2/30	• Lighters characterised by catalytic ignition of fuel [1, 2006.01]	7/16	• • with built-in battery [1, 2006.01]
2/32	• Lighters characterised by being combined with other objects (combinations with smokers' equipment A24F) [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]**