

**F 23 Q IGNITION** (devices for igniting matches [A 24 F](#); explosive or thermic compositions [C 06 B](#); chemical igniters [C 06 C](#); devices or installations peculiar to internal-combustion engines, except glowing plugs, [F 02 P](#)); **EXTINGUISHING DEVICES**

### Subclass Index

#### IGNITERS

Mechanical.....	1/00
Using electric sparks.....	3/00, 5/00
Incandescent.....	7/00
With pilot flame.....	9/00
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REMOTE IGNITION.....	21/00
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LIGHTERS CONTAINING FUEL.....	2/00, 3/01, 7/00
EXTINGUISHING DEVICES.....	25/00

#### **1/00 Mechanical igniters** (lighters containing fuel [2/00](#); matches [C 06 F](#))

- 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 (valves in general [F 16 K](#)) [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 (lighters with electrically-produced sparks but without fuel [3/00](#))
- 2/30 . Lighters characterised by catalytic ignition of fuel (catalytic igniters without fuel [C 06 C](#))
- 2/32 . Lighters characterised by being combined with other objects (combinations with smokers' equipment [A 24 F](#))
- 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 [C 06 C 15/00](#)); Guides for, or arrangements of, flints
- 2/50 . . Protecting coverings
- 2/52 . . Filling devices (in general [B 67 D](#))

#### **3/00 Igniters using electrically-produced sparks** (sparking-plugs [H 01 T 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** (specially adapted for internal-combustion engines [F 02 P 15/00](#))

#### **7/00 Incandescent ignition; Igniters using electrically-produced heat, e.g. lighters for cigarettes** (circuits therefor [H 01 T 15/00](#)); **Electrically-heated glowing plugs**

- 7/02 . for igniting solid fuel
- 7/04 . . with fans for transfer of heat to fuel
- 7/06 . structurally associated with fluid-fuel burners (lighters containing fuel [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 Pilot flame igniters**

- 9/02 . without interlock with main fuel supply
- 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** (catalytic igniters per se [C 06 C](#))

- 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 Igniters 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**

## F 23 Q

- 23/00** **Testing of ignition installations** (peculiar to internal-combustion engines [F 02 P 17/00](#))
- 23/02 . Testing of ignition timing
- 23/08 . Testing of components (of sparking plugs [G 01 M 19/02](#))
- 23/10 . . electrically

- 25/00** **Extinguishing devices, e.g. for blowing-out or snuffing candle flames** (for cigarettes [A 24 F](#))
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