

July 12, 1949.

H. HORNING

2,476,149

FLINT HOLDER FOR CIGARETTE LIGHTERS

Filed Sept. 25, 1946

Fig. 1.

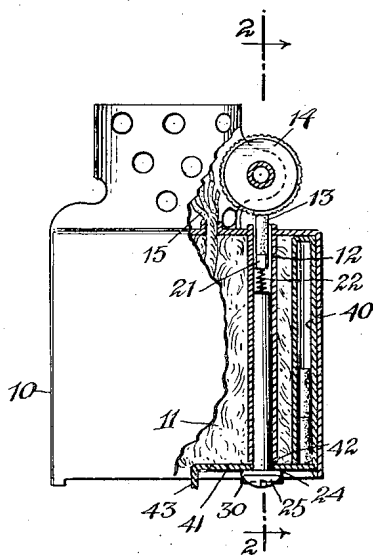


Fig. 2.

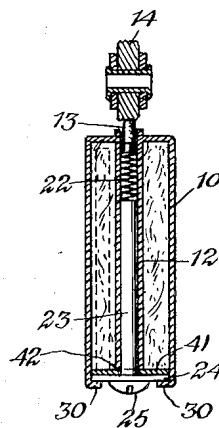


Fig. 3.

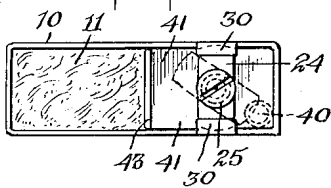


Fig. 4.

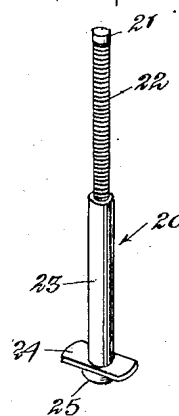
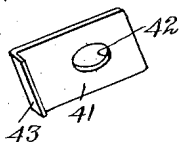


Fig. 5.



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2,476,149

FLINT HOLDER FOR CIGARETTE LIGHTERS

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Application September 25, 1946, Serial No. 699,207

2 Claims. (Cl. 67-7.1)

1

This invention relates to cigarette lighters and more particularly to flint holders and magazines for cigarette lighters.

The principal object of this invention is the provision of a flint holder for conventional cigarette lighters which may be opened or closed by a quarter turn of the locking member thereof. In conventional cigarette lighters a screw device is used to hold the flint in place against the sparking wheel. To renew the flint it is necessary to unscrew the holding device, insert a new flint and then screw the holding device back into place. In the present construction the holding device is instantly releasable and it may be locked instantly too. Any screwdriver, coin or similar device, or even one's fingernail may be used to turn this holding means the necessary quarter turn to release it or lock it.

Another object of this invention is the provision of a holder for cigarette lighter flints in which the tension member normally used to hold the flint against the sparking wheel is also used to hold the flint holder in locked or closed position.

Still another object of this invention is the provision of a flint magazine which may be closed by means of a sliding door which is controlled by the flint holding means. The magazine may not be opened in the present construction when the flint holding means is locked in place, and it is only when the flint holding means is released that the magazine may be opened.

A preferred embodiment of this invention is shown on the accompanying drawing in which—

Fig. 1 is a side view thereof, partly in section to disclose the flint holding means and flint magazine herein claimed;

Fig. 2 is a vertical section on the line 2—2 of Fig. 1;

Fig. 3 is a bottom view of said device;

Fig. 4 is a perspective view of the flint holding means; and

Fig. 5 is a perspective view of the flint magazine door.

The device herein claimed comprises a casing 10 having the usual fuel compartment 11 provided therein, the usual flint holding tube 12 which holds the flint 13 in frictional contact with sparking wheel 14 immediately adjacent the wick 15. To hold the flint 13 in proper contact with sparking wheel 14, the flint holder 20 shown in Fig. 4 is provided. This flint holder has a flint contact member 21 which is really a pusher to push the and thereby urges the flint against the sparking wheel 14, a compression spring 22 which urges said contact member 21 upwardly against the flint

2

and thereby urges the flint against the sparking wheel, a tubular member 23 which carries the bottom end of the spring 22, a pair of lugs, flanges or ears 24 affixed to the bottom end of said tube and a slotted member 25 which is affixed to the lower end of said tube and to the bottom of said flanges 24 for the purpose hereinafter mentioned. Of these parts members 21 and 22 are conventional.

The spring 22 bears against the contact member 21 and also against the bottom of the tube 23, said tube being closed at the bottom. The entire assembly thus described with the exception of members 24 and 25 are contained within the tubular member 12. Since the contact member 21 abuts the flint 13 and the flint abuts the sparking wheel 14, the tendency of the spring 22 is to urge the tubular member 23, the flanges 24 and the slotted member 25 downwardly and out of the casing 10 of the cigarette lighter. It will be noted in Figs. 2 and 3 that the casing is provided with a pair of inwardly turned flanges 30. And it will further be noted that flanges 24 are adapted to engage these flanges 30. When they do, as shown in Fig. 2, the entire flint holding assembly is locked into place in casing 10. To release said assembly from said casing, the slotted member 25 is turned to the position shown in Fig. 3. This causes a corresponding turn of the flanges 24 until they are brought out of engagement with casing flanges 30, as shown by dotted lines in Fig. 3. When this occurs the assembly is released and members 23, 24 and 25 are pushed out of the casing by virtue of the action of compression spring 22 upon them.

Adjacent flint holding tube 12 is a second tube 40. This tube may be considered to be a flint holding magazine where spare flints may be stored for future use. This magazine is open at the bottom and door or sliding member 41 is used to close the magazine. The flanges 30 of the casing serve as guides for the door 41 to enable said door to be used as a sliding member on a horizontal plane. It will be seen in Fig. 5 that this door member 41 is provided with a hole 42 and a flange 43. The flange 43 is intended to be used as a finger rest or means by which the finger is adapted to slide the door. The hole 42 is provided so that the members 21, 22 and 23 of the flint holding assembly may pass through the door when it is in closed position. This provides a locking mechanism for the door which prevents horizontal movement thereof. The bottom of flint holding tube 12 prevents upward movement of said door and flanges 24; abutting

3

flanges 30 prevent downward movement of said door.

It will be understood that applicant has described a preferred form of his invention, and he does not wish to be limited and bound by the specific constructional features thereof above described.

I claim:

1. A cigarette lighter comprising a casing, a flint holder and a flint magazine within said casing, a sparking wheel, a fuel reservoir and a wick, said flint holder comprising a tubular member adapted to hold a flint, a flint contact member abutting said flint, a compression spring urging said contact member against said flint to bring said flint into frictional contact with the sparking wheel, and a spring holder, said spring holder being provided with a pair of flanges which engage the casing of the cigarette lighter to lock said spring holder, spring, contact member and flint in place, said magazine comprising a tubular member situated adjacent the flint holding tube, a sliding door adapted to close said magazine, said door being provided with an opening through which the spring holder is adapted to extend, and whereby said door is locked into place.

2. A cigarette lighter comprising a casing, a flint holder in said casing, a sparking wheel, fuel reservoir and wick, said cigarette lighter

4

being provided with a flint magazine comprising a tubular member adapted to hold a plurality of flints, and a door to close said tubular member, said door being slidably mounted in the cigarette lighter casing, said sliding door being provided with an aperture through which the flint holder is adapted to pass and whereby said flint holder is adapted to prevent slidable movement of said magazine door.

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