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SAFETY LOCK FOR LIGHTER LIDS

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Fig. 1

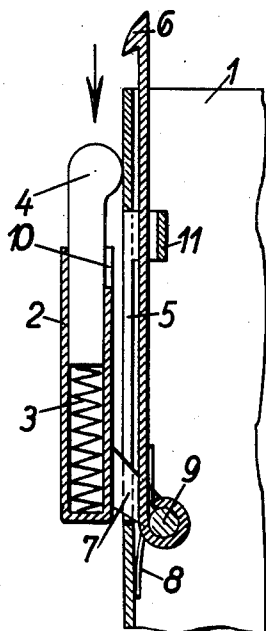
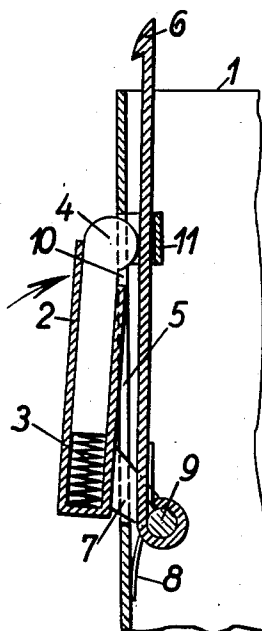


Fig. 2



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SAFETY LOCK FOR LIGHTER LIDS

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3 Claims. (Cl. 292-122)

1

This invention relates to a device for locking the spring-operated cover of a lighter, and for releasing said cover when the lighter is to be used.

A lighter is known which comprises a casing having a bayonet slot for longitudinally guiding a bolt, which cooperates with a protruding tongue of the cover and can be coupled with said tongue by being given a small turn.

As distinguished from the lighter described above, the essential feature of the present invention is a push of variable length, which protrudes outside the lighter casing and is pivotally movable towards it for operating a latch which is pivotally mounted in the casing, the side wall of the casing between the push and the latch having an opening which permits of the inward movement of the push only when the latter has been reduced to its smallest length.

An embodiment of the lock is illustrated, by way of example, in the drawings, in which the parts constituting the lock are shown in conjunction with other lighter parts.

Fig. 1 shows the lock in its normal, closed position.

Fig. 2 shows the same lock during the releasing operation. Both drawings are longitudinal sections.

One of the narrow side walls of the lighter casing 1 has a longitudinal slot 5, adjacent to which a push 2 is provided outside the casing. This push is connected with the casing by arms 7 and a pivot pin 9 mounted inside the casing. The push 2 consists of a sleeve, within which the push bolt 4 is longitudinally movable. A spring 3, provided in the sleeve below the push bolt 4, continuously urges the push bolt upwardly. The side wall of the push sleeve 2 facing the lighter casing has at its upper edge an opening 10, with which the enlarged head of the push bolt 4 is in register when the bolt is depressed. The presence of this opening permits of making the other walls of the sleeve longer so as to provide a long guideway for the bolt even when the latter is not depressed. A narrow, tongue-like latch 6 is provided within the casing 1. This latch is also pivotally mounted on the pin 9, and is urged into its locking position by an expanding spring 8. An angle stop 11, protruding inwardly from the narrow side wall of the casing 1, serves for limiting the pivotal movement of the latch.

When the lighter is out of use, the head of the push bolt 4 bears against the side wall of the lighter. In order to release the spring-operated cover (which is not shown in the drawings), the push bolt 4 is depressed and subsequently the push 2 is moved towards the side wall of the casing so that the bolt head, fitting in the opening

2

10, enters through the longitudinal slot 5 and engages the latch 6. Thereby the latter is deflected until it engages the angle stop 11, and at the same time releases the cover. The return of the latch 6 and of the push 2 is brought about by the expanding spring 8, the outward pivotal movement of the push 2 being limited, e. g., by the engagement of the arms 7 with the lower edge of the slot 5.

What I claim is:

1. In a latch mechanism release means adapted for use with a latch for a spring operated lighter cover, said latch mechanism release means comprising a push of variable length pivotally connected to said casing and protruding out of a lateral opening in a casing wall, said push being adapted to be pivotally moved inwardly through said opening, for operating said latch so as to release said cover, when and only when said push has been reduced to its smallest length.

2. In a latch mechanism release means adapted for use with a latch for a spring operated lighter cover, said latch mechanism release means comprising a sleeve pivotally connected to said casing and protruding out of a lateral opening in a casing wall of the lighter, and a bolt protruding out of the upper end of said sleeve and adapted to be depressed against the force of a spring, said sleeve and bolt being adapted to be pivotally moved inwardly through said opening, for operating the latch so as to release the cover, when and only when the bolt is depressed.

3. In a latch mechanism release means adapted for use with a pivot-pin mounted latch for a spring operated lighter cover, said latch mechanism release means comprising a push of variable length protruding out of a lateral opening in a casing wall of the lighter, said push being pivotally connected to the casing by means of the pivot pin mounting said latch, said push being adapted to be pivotally moved inwardly through said opening, for operating the latch so as to release the cover, when and only when the push is reduced to its smallest length.

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