

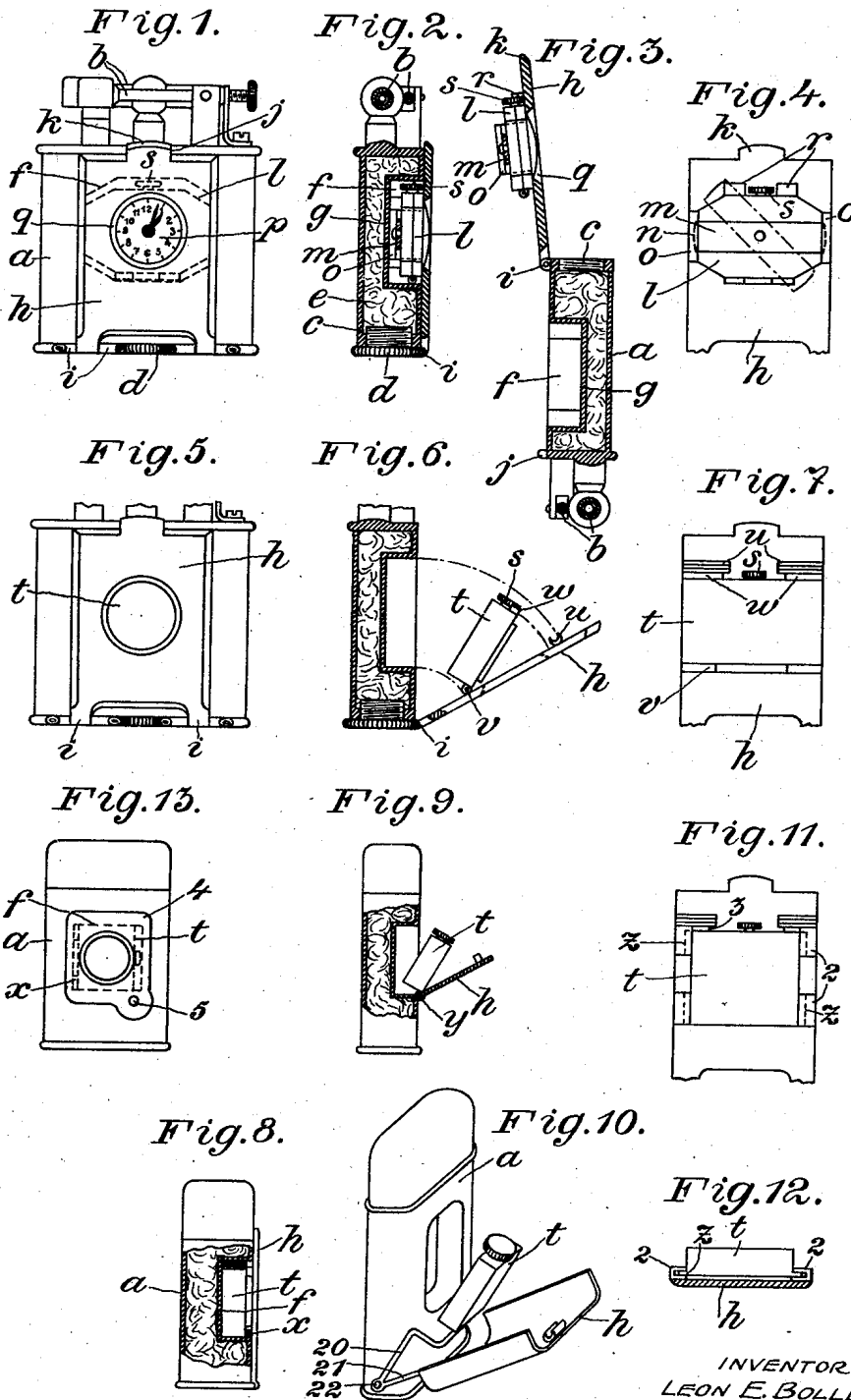
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INFLAMMABLE LIQUID LIGHTER

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INFLAMMABLE-LIQUID LIGHTER

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This invention relates to inflammable liquid lighters. In the reservoir of the present inflammable liquid lighter as in the reservoir of other known lighters a recess is provided opening outwards and intended to receive an article, for instance a watch. The lighter according to the invention differs however from others by the fact that the recess is normally closed by a detachable cover which protects the whole article.

Various constructions of the lighter according to the invention are shown by way of example in the accompanying drawings:

Figure 1 is a front elevation of a first construction, whilst

Figures 2 and 3 are longitudinal sections of the same, showing certain parts in two different positions;

Figure 4 is an interior view of the cover; Figures 5 and 6 show a second construction in front elevation and in longitudinal section; and

Figure 7 is an inner view of the cover of this second construction;

Figure 8 is a side elevation, partly in section of a third construction;

Figure 9 is a side elevation of a fourth construction; with parts broken off;

Figure 10 is a perspective view of another construction;

Figures 11 and 12 are an inner view and a cross-section of a sixth construction;

Figure 13 is a front elevation of a last construction.

According to Figures 1 to 3, the body *a* of the lighter, seen from the front, has a rectangular shape, and is also of rectangular shape in vertical longitudinal section. The lighter is provided at its upper end with parts *b* intended for the ignition, which may be concealed or not by means of a cover not shown, and is also provided at its lower end with a filling opening *c* closed by a milled screw plug *d*. The body *a* constitutes a reservoir containing cotton wool *e* and a wick which is not visible, both impregnated with an inflammable liquid such as benzine.

In one of the large faces of the body *a* is provided a recess *f* of octagonal shape, hermetically closed at the side of the reservoir

by means of a cap *g* and opening outwards. It may be closed by a cover *h* of rectangular shape (see also Figure 4) connected with its lower end to the body *a* by means of two hinges *i* and provided at its upper portion with a lip *k* engaging with a notch *j* at the top of the said body.

The article which the recess *f* is to contain, is constituted by a watch *l*, the case of which is of octagonal shape. It is carried by the cover *h* and held on the latter by a pivoted elastic cross-bar *m*, the ends of which engage with recesses *n* in the form of an arc of a circle, provided in two lugs *o* of the cover *h*. The dial *p* of the watch which is circular, may be seen through a circular opening *q* of the said cover, and its position on the latter is fixed accordingly by two pins *r* against which the watch is pushed. The pins *r* have a tight fit in the recess *f* and thus hold the cover *h* in the closing position.

The cover closes the recess *f* containing the watch *l* and is held in place by the friction of the pins *r* in the recess *f*. The watch is completely inside the recess, and no part of it, not even the winding button, projects outside the body of the lighter. None of the parts of the watch can therefore catch in a pocket of the wearing apparel in which the lighter is carried.

In order to wind the watch *l*, the cover *h* is opened, the cross-bar *m* is brought to the position shown in chain dotted lines in Figure 4, the said watch is detached from the cover *h*, and in that way convenient access is gained to the winding button *s*. As soon as the winding has been effected, the watch *l* is slid between the two lugs *o* until it is again in contact with the pins *r*, the cross-bar is again brought into engagement with the recesses *n*, and the cover *h* is closed again.

If it is desired to fill the lighter, the body *a* is turned upside down, so as to bring the opening *c* to the top, the plug *d* is unscrewed, and the cover *h* opened by turning it to 180° so that it is then above the said orifice *c*. The filling is effected without any benzine escaping from the orifice *c* or overflowing from the latter, being able to reach the watch *l* and passing into the latter, which would

affect is proper working. Once this has been done, the plug *d* is screwed in, the cover *h* closed again and the lighter is ready for use.

5 In the second construction (Figures 5-7), the watch *t* of rectangular shape is hinged at one of its ends to the cover *h* by means of a hinge *v* and provided at the other end with two projections *w* engaging with spring claws *u* on the said cover. The cover *h* is 10 hinged by means of a hinge *i* to the body *a*. In normal times, the watch *t* is held flat on the inner face of this cover, but in order to wind it, it is pivoted about the axis of the 15 hinge *v* after having opened the said cover, in order to have convenient access to the winding button *s*, as shown in Figure 6.

According to Figure 8, the watch *t* is connected to the body *a* of the lighter, and not 20 to the cover *h*, by a hinge *x* enabling it to be withdrawn from the recess *f* for the purpose of winding, without detaching it from the lighter.

Figure 9 shows a construction in which 25 the cover *h* smaller than in the preceding constructions, is connected to the central portion of one of the large faces of the lighter by means of a hinge *y* which it has in common with the watch *t*.

30 In Figure 10, the watch *t* and the cover *h* are supported by branches 20, 21 rotating about pins 22 common to both, but arranged at the bottom of the body *a*.

According to Figures 11 and 12, the watch 35 *t* is provided with two projections *z* engaging with longitudinal slots 2 of the cover *h*. Their movement in the slots is limited by stops 3.

40 In the last construction (Figure 13), the cover 4 is connected to the body *a* of the lighter by a pivot pin 5, the axis of which is at right angles to the face in which the recess is provided. The watch is connected to this body by a hinge *x*.

45 The bezel of the watch may itself form the cover and have a portion connected to the rest of the cover by a hinge, so that by turning down this part, the winding button may be reached conveniently.

50 The watch may of course be a different shape from those shown and its connection to the body or to the cover may be effected in a different manner, provided that it is normally connected to one or the other.

55 It may slide completely in the recess of the lighter and be designed for the purpose and secured to the cover which closes this recess, or may itself constitute this cover.

The article contained in the recess of the 60 lighter need not necessarily be a watch.

I claim:

1. In a device of the character described, a container having a filling opening in its 65 lower end and a recess in one side wall, a door, the door being hinged to the end of the casing

having the filling opening, a watch, and means for mounting the watch on the container and independently of the hinging of the door whereby the casing can be inverted for filling and when so inverted the door can be swung upwardly and thereby move the watch to such a position that any substance spilled during the filling will not come in contact with the watch. 70

2. In a device of the character described, a 75 container provided with a recess in one side wall, a watch, a door hinged to the container to close said recess, means for hingedly mounting the watch so that said watch may be swung outwardly with the door or moved 80 independently of the door when the door is opened, the watch being held in the recess when the door is closed.

In testimony whereof I affix my signature.

LÉON EUGÈNE BOLLE. 85

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