

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improved Combination Knife and Lighter.

I, FRANÇOIS JOSEPH DAIGUEBONNE, of Thiers (Puy-de-Dome), France, a citizen of the Republic of France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to articles of the kind comprising an automatic lighter of the cerium-iron or like type combined with another frequently useful article such as a cigar cutter.

According to the present invention there is provided a device comprising in combination a pocket knife with one or more blades and a lighter of any desired type. The invention essentially consists in arranging the container of the lighter between the plates separating the blades from each other, said container being held in position by the rivets which connect together the outer sides of the device and said rivets being either located in seatings provided on the outside of the container or passed through strengthening lugs on the interior walls of said container.

In the constructions illustrated by way of example in the accompanying drawings, a pocket knife with several blades and with accessory parts is shown combined with a ferro-cerium petrol lighter.

Figures 1 and 2 show respectively in elevation and in longitudinal section one construction according to the invention.

Figure 3 shows in longitudinal section another construction according to the invention.

Figure 4 shows a modified construction of the container.

In Figures 1 and 2, 1 is one of the sides

of the knife, 2, 3, 4 are blades or accessory parts hinged about rivets 5, 6, 7 forming also stays for joining the sides together. In the centre part of the device that is to say between the intermediate partitions intended to separate the blades, is arranged a container 8 filled with an absorbent substance 9 (for instance cotton) into which plunges a hollow tempered steel rod 10, the end of which is cut on the bevel and which contains a wick 11. At its upper end, the rod 10 is provided with a ring 12 enabling it to be withdrawn from the container. On the side of the latter, in a suitable recess is secured a small plate 13 of ferro-cerium.

The absorbent substance 9 being impregnated with petrol, the wick 11 also becomes impregnated with the same. The rod 10 is withdrawn by pulling at the ring 12, and the end of the said rod is rubbed against the ferro-cerium plate 13 which produces a spark which ignites the end of the wick 11.

The part 10 utilised as a rubber can be made in any desired manner for instance it may have a detachable tempered steel end used for securing asbestos washers which become impregnated with petrol.

The container 8 shown in Figure 2 is made of stamped out metal in order to reduce the weight of the device and is formed on the outside with recesses constituting seatings for the rivets 5, 6 and 7. In order to conceal said recesses the container may be surrounded by a jacket 24. The said container may also be made from a block of any desired material, for example, ivory, celluloid, or galalith, and recessed in the interior so as to receive the absorbing substance. In such a case the rivets may pass directly

[Price 1/-]

through strengthening lugs 27 in the interior of the said container as shown in Figure 4.

Figure 3 shows the device provided with a lighter with a milled wheel of the known type. Here the outer jacket 24 has a cover 24¹ hinged about a pin 14 and provided with a groove or recess 15 affording passage to the rivet 5. In this case the lighter is constituted by a tube 16 surmounted by a fork 17 supporting the milled wheel 18. The tube is closed by a plug 19 and contains a spring 20 which brings the ferro-cerium stick 21 into contact with the milled wheel 18. A wick 22 held by a sleeve 25 plunges into the absorbent substance.

The apparatus may work in two ways; either the rotation of the cover 24¹ may produce that of the milled wheel and consequently ignition of the wick 22, or the milled wheel may be turned by hand as soon as the cover has been turned down.

Having now particularly described and

ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A combined pocket knife and lighter in which the container is arranged between the plates separating the blades from each other and is held in position by the rivets which connect together the outer sides of the device, said rivets being either located in seatings provided on the outside of the container or passing through strengthening lugs on the interior walls of said container.

2. The combined knife and lighter substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 6th day of January, 1921.

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Fig. 1

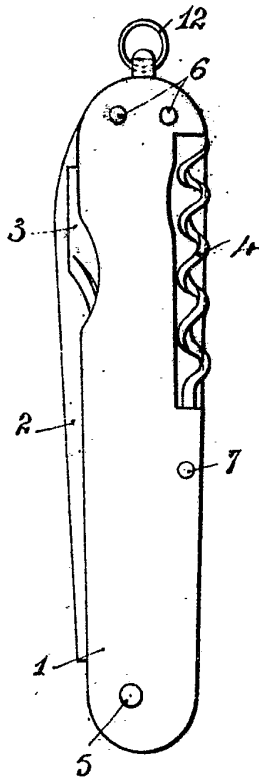


Fig. 2

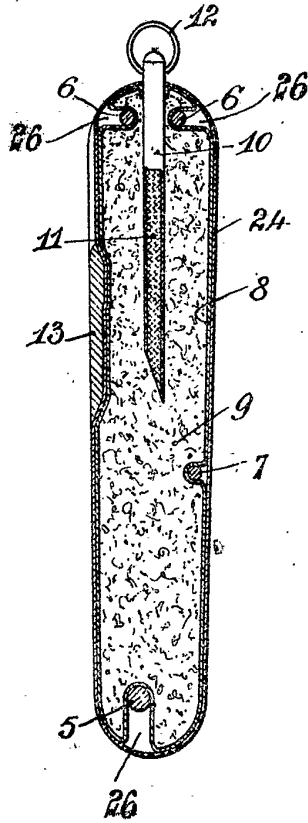


Fig. 3

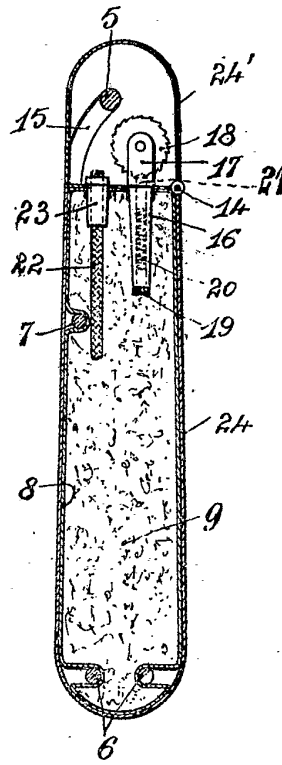
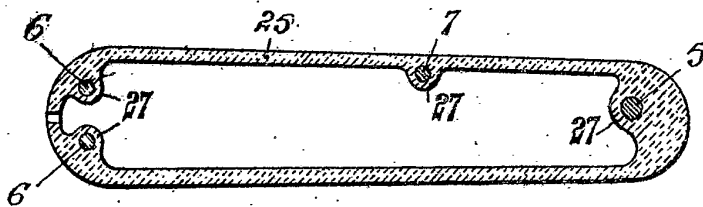


Fig. 4



[This Drawing is a reproduction of the Original on a reduced scale.]