

# PATENT SPECIFICATION



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285,729

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## COMPLETE SPECIFICATION.

### Pocket-lighter.

I, LUDWIG BRUCKMANN, of No. 84, Bleichstrasse, Pforzheim, Germany, of German nationality, 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 benzine pocket-lighters of the type in which the friction wheel is rotated by depressing a plunger, and consists in the friction-wheel being operated by the knob of the plunger coming into direct contact with a nose on the friction-wheel.

The arrangement is also such that when the wheel is rotated a lid forming the cover of a box wind-screen and mounted coaxially with the friction wheel is also raised automatically.

Other details of construction according to the invention are hereinafter referred to.

An embodiment of the invention is shown in the accompanying drawing in which:—

Figure 1 shows the improved pocket-lighter in side elevation and in closed position.

Figure 2 is a longitudinal section and Figure 3 is a top plan view of Fig. 2.

The casing 1 is closed at the bottom by a plate 2 and at the top by a plate 3.

Two tubes 4 and 5 are fixed in the plates 2 and 3 the tube 4 serving to guide a cerium-rod 6 and tube 5 serving to guide the hollow shaft 7 of the push-knob 16. The casing 1 has on the top plate 3 a box-shaped wind-screen 10 of known type with holes 9 in its walls and normally closed by a lid 12, oscillatably mounted on an axle 11. On this axle 11 a friction-wheel 15 having two noses 13 and 14 is rotatably mounted.

When the lid 12 is closed, the nose 13 of the friction-wheel 15 is standing underneath the knob 16 and the nose 14 is underneath the lid 12.

When the knob 16 is depressed, in opposition to the action of a spring 17, the friction-wheel 15 rotates through 90°. The sparks which are thus produced, ignite the benzine in the free end of a wick 18. At the same time as the

[Price 1/-]

friction-wheel 15 is rotated, the lid 12 is raised so that the flame projects from the wind-screen 10 which is now open at the top end.

On the inner end of the lid 12 a hood 19 for the wick is fixed and a snap-spring 20 is arranged which serves to securely hold the lid 12 in the closing position, as said spring is clamped between the inner surfaces of two opposite side walls of the wind-screen 10. By this locking of the lid 12 the spark-production is favoured as, after the jamming has been overcome by the pressure exerted upon the knob 16, the friction-wheel 15 will rapidly rotate over the end of the cerium rod 6 under the influence of the knob 16 which is depressed without considerable resistance.

The spare cerium-rods 22 are stored in the hollow shaft 7 of knob 16. The knob 16 is removably fixed in the upper end of shaft 7 by means of elastic arms 24 so that it closes the top end of the magazine.

In order to prevent excessive heating of the wind-screen 10 an inner wall having air holes (Figs. 2 and 3) may be arranged at a short distance from the outer wall of the wind-screen.

The casing may be of any desired shape, size, material, and ornamented or not.

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 benzine pocket-lighter of the type in which the friction-wheel is rotated by depressing a plunger, wherein the friction-wheel is operated by the knob of the plunger coming into direct contact with a nose on the friction-wheel.

2. A benzine pocket-lighter according to Claim 1, wherein a lid provided with a wick hood forms a cover for a box wind-screen when the lighter is not in use, and is mounted coaxially with the friction-wheel so as to be raised when said wheel is rotated by the knob.

3. A benzine pocket-lighter as claimed in Claim 2, characterized in that on the

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inner surface of the lid a blade-spring is arranged which secures said lid in its closing position.

4. A benzine pocket-lighter as claimed in Claim 1, characterized in that the knob forms a removable lid for a hollow shaft serving as reservoir for spare cerium-rods.

5. A benzine pocket-lighter as claimed in Claim 2, characterized in that the axle

for the friction-wheel and for the lid is journaled in the side-walls of a double-walled box-shaped wind-screen.

Dated this 25th day of July, 1927.

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

Fig. 1.

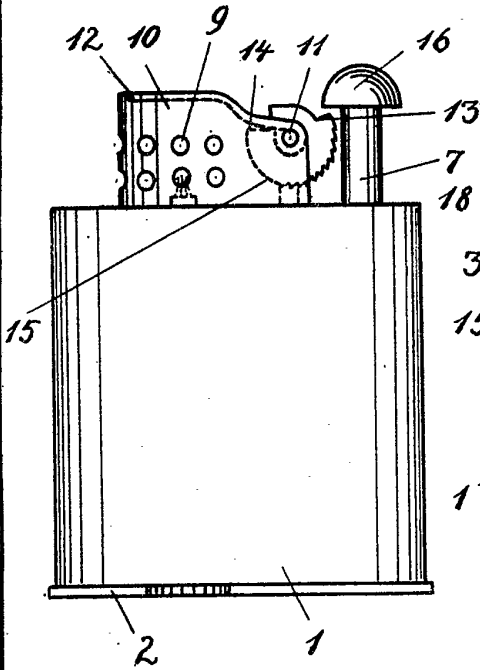


Fig. 2.

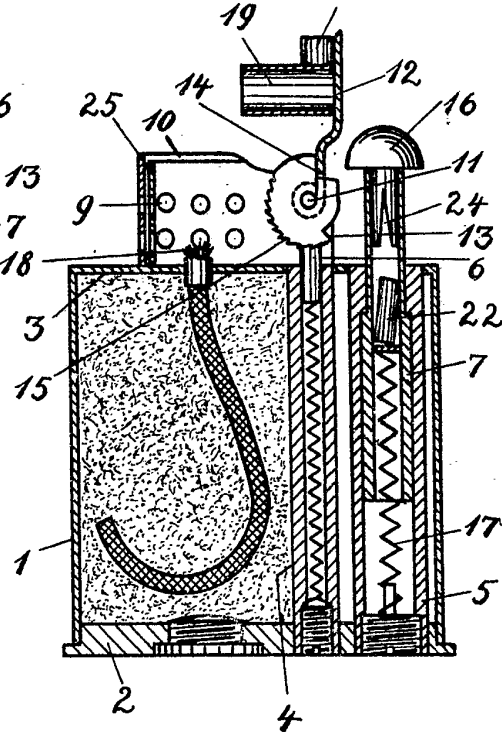


Fig. 3.

