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PATENT SPECIFICATION



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COMPLETE SPECIFICATION

Improved Friction Wheel Pocket Lighter

We, ERICH KÖRNER, of 34, Starhemberggasse, Vienna 4, Germany, German Nationality, and FRANZ LENNEIS, of 51, Cumberlandstrasse, Vienna 14, Germany, 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:—

10 The invention relates to a friction wheel pocket lighter in which an oscillatable cap acting upon the friction wheel is opened by inward movement of an oscillatable side wall of the casing, the friction wheel being actuated by the cap during an opening movement.

In a known lighter of this type the effective connection between cap and oscillatable side wall of the casing is effected by a link which is transverse to the side wall, and moves in a transverse direction. This arrangement necessitates a comparatively large width of the lighter which makes it clumsy in use.

25 According to the present invention, this disadvantage is removed by the fact that the link is of U shape and is hingedly mounted at one end on the cap eccentric to the pivot axle of said cap and at the other end, is slidable in the longitudinal direction on a cerium stone tube and the oscillatable side wall is provided with bolts engaging curved slots in the link.

35 In this manner, the movement of the link is at substantially 90° to the direction of operation, and this brings about the desired small construction of the lighter without producing other disadvantages.

40 A further advantage of this link in contradistinction to the known arrangement lies in the fact that it is moved within the space required by the side wall of the casing for its movement, and thus does not need any additional space for its movement. Consequently the link may be made comparatively large and solid even with a very small construction of the lighter, and moreover may have an

50 exact guide so that a large degree of efficiency is ensured. In addition, the return spring of the cap may be made very large since it also is arranged in the movement space of the side wall of the casing.

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An embodiment of the invention is illustrated in the drawing in which:—

Fig. 1 shows a friction wheel lighter constructed according to the invention, closed, in side elevation, the casing being partly cut away, and

Fig. 2 a similar view with actuated igniting mechanism.

In the cap 2 oscillatable about a bolt 1 the friction wheel 3 is mounted loosely rotatable on the bolt 1 and in known manner coupled with the cap 2 by a blade spring (not shown) co-operating with lateral ratchet teeth 4 on the friction wheel so that the friction wheel is rotated when the cap is opened and thus strikes sparks from the cerium stone. The cap 2 is opened by the pressing inward of a side wall 6 of the lighter casing, said side wall being oscillatable about a bolt 5. The effective connection between cap 2 and side wall 6 is provided according to the invention by a link 7. This link consists of a piece of sheet metal bent in U-shape, the side walls of which terminate in lugs 8 which carry bolts 9 by means of which the link 7 engages in holes of the cap 2, said holes being arranged eccentric to the bolt 1 and the link being thus hingedly connected with the cap. The link 7 has on the other end an end wall 10 with a central hole 11 by means of which it is pushed on to the cerium stone tube 12 so that it can move on this tube in longitudinal direction. The link 7 has further in each of its two side walls a curved slot 13. Short bolts 14 which are mounted in the upper ends of the arms of the side wall 6 of U-shaped cross-section engage in these curved slots 13.

If the side wall 6 is oscillated in inward direction by pressure exerted with the thumb from the normal position in Fig. 1 into the position of Fig. 2, the link 7 is brought from the position shown in Fig. 1 into the position shown in Fig. 2, the cap 2 being oscillated through approximately 90 degrees into the open position and the friction wheel 3 actuated. During this movement a helical spring 15 wound about the cerium stone tube 12 is compressed by the link 7, said spring returning into the initial position the link 7, cap 2 and side wall 6 when the side wall 6 is released.

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This return spring need not, however, be provided.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

Friction wheel pocket lighter in which an oscillatable cap acting upon the friction wheel is opened by inward movement of an oscillatable side wall of the casing, and the effective connection between the oscillatable side wall of the casing and the oscillatable cap is estab-

lished by a link, characterised in that the link is of U shape and is hingedly mounted at one end on the cap eccentric to the pivot axle of said cap and, at the other end, is slidable in the longitudinal direction on a cerium stone tube, and the oscillatable side wall is provided with bolts engaging in curved slots in the link. 15
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Dated this 19th day of January, 1939.

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Patent Agents for the Applicant.

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

