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H. ESTEROW

1,646,085

CIGAR LIGHTER

Filed May 12, 1927

Fig. 1.

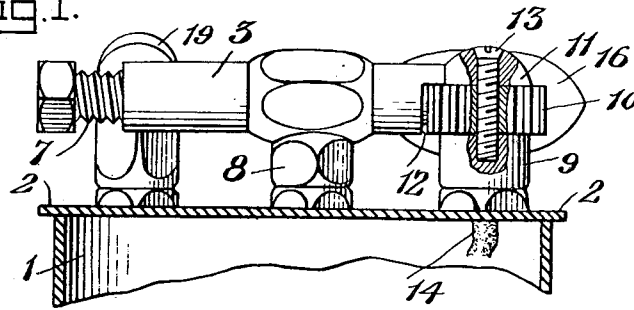


Fig. 2.

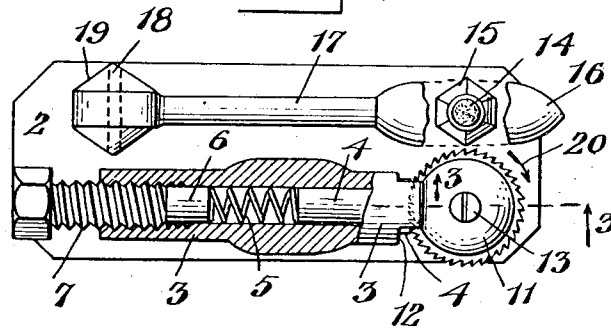
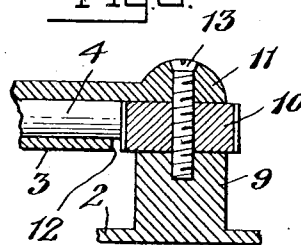


Fig. 3.



Inventor

Harry Esterow
By his Attorney
Harry Radzinsky

UNITED STATES PATENT OFFICE.

HARRY ESTEROW, OF NEW YORK, N. Y.

CIGAR LIGHTER.

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This invention relates to an improvement in cigar lighters and has for its object to provide an article of this character which shall be positive in operation; which shall be extremely sturdy in construction and unlikely to get out of order from constant hard and continuous use.

A further object of this invention is to reinforce the various parts of the device, particularly the moving parts so that the same shall be capable of withstanding such abuse as might possibly be placed upon them.

With these objects and such other objects as may hereinafter appear, in view, I have devised the particular arrangement of parts hereinafter set forth, and more particularly pointed out in the claims appended hereto.

Reference is to be had to the accompanying drawing, forming a part hereof, in which
 20 Figure 1 is a side elevation of my improved construction with parts of the same being shown in section.

Figure 2 is a plan view of the same with some of the parts broken away and other parts shown in section; and

Figure 3 is a sectional view on the line 3-3 of Figure 2, looking in the direction of the arrows.

Throughout the various views of the drawings, similar reference characters designate similar parts.

In the embodiment of my invention disclosed in the accompanying drawing, 1 indicates a part of the body of the lighter. This may be of any particular form and the same is preferably made in a flat, compact shape and is provided with an integrally formed flat top plate 2. The top plate 2 acts as a support for the various operating parts of the device. At 3 is shown an elongated tubular member which acts to hold the lighting or striking material 4 which is in the form of a cylindrical rod and the same is normally pressed toward one end of the tube 3 by a coil spring 5 which is kept under pressure by a follower 6. The follower 6 is caused to bear against the spring 5 by a screw 7 which is threaded into one end of the tubular member 3 and is adjustable therein as will be understood. The member 3 is supported upon an upwardly extending stud 8 which is secured fast to, or may form an integral part of the top 2 of the container 1. The stud 8 acts as a support for the tubular member 3 and in this connection, it co-operates with a sim-

ilar support or stud 9 located at a distance from the stud or support 8. The upwardly extending stud 9 may be fixed to, or form an integral part of the top plate 2 of the casing 1 as will be understood, and a metal actuating wheel 10 is rotatably supported between the top face of the support 9 and the under flat face of an enlarged head 11 formed on the end of the tubular member 3.

It will be seen that the end 11 on the member 3 is formed by cutting away a part of the tubular member 3 as is shown at 12, and this also permits the sparking material 4 to project out and bear against the toothed periphery of the striking wheel 10.

At 13 is shown a pivot screw which is threaded through the head 11, and through the axis of the wheel 10 and into the stud 9. Through this construction, an extremely secure and solid arrangement is provided. In cigar lighters of a type heretofore made, the tubular member 3, being carried upon a single stud such as is shown at 8, showed a tendency to break off at said stud when a very vigorous thrust on the wheel 10 was made.

In my improved construction, the end of the tube 3 is firmly reinforced by its connection to the stud 9 through the medium of the pivot screw 13. Incidentally, the striking wheel 10 is kept firm and level between the head 11 and the upper face of the stud 9 with the result that a large spark is thrown and the lighter is very effective in operation. At 14 is shown the wick which is extended through a guide 15 and into the body 1 of the casing where it receives the inflammable liquid in the conventional way. At 16 is shown the extinguishing cap which is located at the end of a rod 17 pivotally mounted at 18 in an upright stud 19.

From the foregoing, the manner in which my improved cigar lighter operates is readily understood. The wheel 10 is rotated by the thumb and since the sparking material 4 is in contact with the periphery of said wheel, a spark is thrown on the wick 14, which, being saturated with an inflammable liquid, is caused to light. To extinguish the wick, the cap 16 is lowered in the conventional way.

It will be understood that when using the cigar lighter, the wheel 10 is usually rotated by the thumb in the direction indicated by the arrow 20 in Figure 2. A vigorous rotation of the wheel 10 places considerable

strain upon the tubular member 3. However, with my improved means of securing the end of the part 3 and the stud 9 together by the pivot pin 13, the possibility of the
5 part 3 twisting off when undue strain is placed upon it, is avoided.

Having described my invention, what I claim is:

1. An article of the class described comprising a casing, a top plate therefor, a pair
10 of studs extending from said top plate, a tubular member carried on one of said studs, a rotary striking wheel supported on the other stud, a section of sparking material in
15 said tubular member, means for forcing said sparking material against the periphery of the striking wheel, an extension on said tubular member overlying the upper face of said wheel with the edge of said wheel extending beyond the periphery of said extension, and a screw extending through said
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extension and through the wheel, and into the stud on which said wheel is supported.

2. In an article of the class described, a casing, a serrated wheel, a vertical stud secured to and projecting upward from the
25 top face of said casing and forming a bearing for said serrated wheel which rests upon the upper end of said stud, sparking substance, a tubular member for holding said
30 sparking substance against said wheel, an extension on said tubular member overlying the wheel, said extension being of less area than the upper face of said wheel whereby the edge of said wheel projects beyond the
35 periphery of said extension, and a fixed removable pivot pin extending through said extension and through the wheel and into the stud on which the wheel is supported.

Signed at the city, county and State of
New York, this 11th day of May, 1927.

HARRY ESTEROW.