

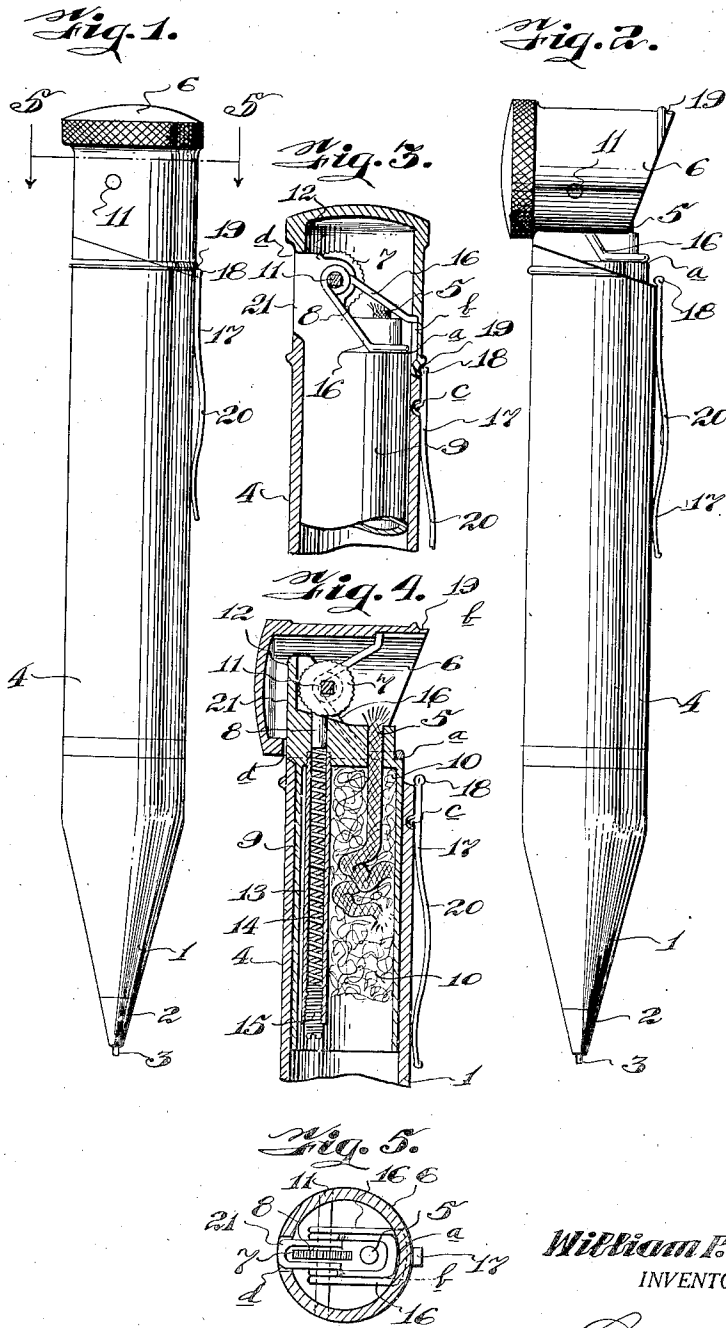
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W. P. ARON

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COMBINED PENCIL AND LIGHTER

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William P. Aron
INVENTOR

BY *Ernest A. Hood*
ATTORNEY

UNITED STATES PATENT OFFICE

WILLIAM P. ARON, OF DALLAS, TEXAS, ASSIGNOR OF ONE-HALF TO EVANGELINE
ROREX, OF DALLAS, TEXAS

COMBINED PENCIL AND LIGHTER

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This invention relates to a novelty as well as to an article of utility in the form of a combined pencil or pen and cigar lighter and it refers more particularly to an improved cigar lighter capable of being automatically ignited, the principal object being to provide in one body two articles of common use to facilitate handling, and yet improve upon the efficiency of either, especially the lighter.

Another object of the invention resides in the provision of an improved lighter capable of automatic ignition, and provided with a cover having means for urging the same to open position to effect such ignition, together with means for holding the cover in closed position, in which latter position the device presents the appearance of a pen or pencil as the case may be, and carried as such by the user.

With the foregoing objects as paramount, the invention has especial reference to its novel construction and arrangement of parts hereinafter described and illustrated in the accompanying drawings wherein:—

Figure 1 represents an elevational view of a combined pencil and lighter constructed according to the present invention.

Figure 2 is a similar view of the invention showing the cover in open position, in igniting the lighter.

Figure 3 is a fragmentary view of the device, illustrating the lighter.

Figure 4 is a further fragmentary view of the device in which the lighter and parts are illustrated in detail, showing the cover in open position, and

Figure 5 is a sectional view on lines 5—5 of Figure 1.

Proceeding now more in detail with the drawings, reference is made primarily to Figure 1 showing the complete embodiment of the invention, in which the latter is combined with an automatic pencil 1 of a conventional and well known type wherein the lead 3 is urged to writing position by rotating the ferrule 2 forming the tip of the pencil. That part of the casing 4, indicated at 1, contains the mechanical elements of the pencil, which elements are not herein described nor

illustrated, as they form no part of the specific invention, except in assembly therewith.

The invention, as illustrated particularly in Figures 3, 4 and 5 is embodied in the lighter shown, the object of which is to effect ignition of the wick 5 upon release of the cover 6, enabling the latter to move with quick impetus to the position shown in Figures 2 and 4, turning the knurled wheel 7 against the piece of flint steel 8, thus creating a spark and igniting the wick 5, which is saturated with some character of highly inflammable liquid.

It will be noted in Figures 3 and 4 that the lighter head is integral with the barrel or cylinder 9, which latter snugly fits within the casing 4, and contains a small quantity of packing 10 of some character of absorptive material such as cotton. This packing material is saturated with a suitable inflammable liquid and confines the same in order that the wick 5, about which the said material is packed, may also absorb the liquid, as to be capable of instantaneous ignition immediately upon applying a spark thereto.

The knurled wheel 7 is mounted upon a small squared pin 11, the latter extending through the sides 12 of the substantially U-shaped portion 21 of the lighter head, and between which the small wheel 7 is arranged. The ends of the pin 11 non-rotatably enter the walls of the cover 6 in the manner shown in Figure 5. Obviously, movement of the cover 6 will cause the knurled wheel 7 to move a quarter of a complete revolution, which is sufficient to cause the flint 8 to emit a series of sparks in the direction of the wick 5 to ignite the same.

In Figure 4 is shown the manner of holding the flint 8 operatively against the knurled surface of the wheel 7. This means consists of an expansile spring 13, contained within a small tube 14, the pressure of which is applied against the flint, urging the latter upward against the wheel 7. To increase the pressure thus applied and to care for obvious wear upon the flint by continual operation of the lighter, a small screw 15 is threaded into the lower end of the tube 14, and by turning the same, pressure is applied against the

spring, and consequently increases the pressure thereof upon the flint.

Referring now to the cover 6 and the means by which the latter is thrown to open position. In Figures 3 to 5 is shown a spring 16, one portion of which rests upon the shoulder *a* forwardly of the lighter head, and extending upward, encircles the pin 11 the desired number of times and outward against the wall of the cover 6 in a recess *b* provided therefor in the cover to avoid displacement. The torsional force thus obtained by so arranging the spring 16 is sufficient to throw the cover back to the position shown in Figures 2 and 4 with a snap, simultaneously rotating the wheel 7 fixed upon the pin 11, against the flint 8. A latch 17 is pivoted at *c* to the casing 4, and is provided with an end 18 normally reposing within a recess 19 near the lower end of the cover, and by pressing upon the raised portion 20 of this member 17, the end 18 thereof is caused to raise and release the cover whereupon the latter, under urge of the spring 16, is thrown to open position. This member 17, also acts as a clip for holding the article in the pocket of the owner.

In order to attach the cover 6 to the head of the lighter to have the appearance of a continuation of the casing 4, and yet provide clearance between the cover and casing to enable the cover to swing to open position, the casing 4 is cut on an oblique line at its top in the manner shown and the bottom of the cover cut accordingly. Moreover, the cover 6 is required to be slotted at *d*, in which slot is received the substantially U-shaped portion 21 of the lighter head when the cover is swung to open position. This portion 21 forms a closure for the slot *d* when the cover is closed, as shown in Figures 1 and 3, making the interior air tight to extinguish any possible lingering blaze after the cover is closed.

Obviously, the invention affords a novel article through which may be combined an article of utility such as a pen or pencil, with a cigar lighter, and it is apparent that it provides a cover which, upon being released assumes such position relative to the lighter as to afford a hood or shield to prevent premature extinguishing of the blaze when the wick is ignited.

Manifestly, the construction shown is capable of considerable modification, and such modification as is considered within the scope of the appended claims is also considered within the spirit of the invention.

I claim—

1. In combination with a body, a head on the body having a substantially U-shaped part at its rear, a cap having a slot to receive said U-shaped part, a pin extending through the sides of the U-shaped part and fixed at its ends to the opposite sides of the cap to support the cap, a knurled wheel fixed on the pin

and located between the sides of the U-shaped part, a flint rod in the head engageable with the wheel, a wick extending through the head adjacent to the wheel, a right angular shoulder on the head at the front thereof, and a spring having an intermediate part seated on the shoulder and having side portions coiled about the ends of the pin on the outer faces of the U-shaped part of the head and having each of its free ends turned at an angle and engaged in recesses provided therefor in the front side of the cover.

2. In combination with a body, a wick at one end of the body, a flint element adjacent the wick, a cover pivoted to the body and having means to engage the flint element so as to produce a spark, a combined latch and pocket engaging clip carried by the body, and means carried by the cover to engage the latch.

3. In combination with a body, a cover pivoted to one end of the body, lighter means operable by the cover, combined latch and pocket engaging means carried by the body, and means on the cover to engage the latch.

4. In combination with a body, a cover pivoted to one end of the body, lighter means operable by the cover, a clip disposed exteriorly of the body and pivoted between its ends to the body, latching means on one end of the clip, and means on the cover to engage the latching means, the opposite end of the clip being formed to engage the wall of a pocket.

5. In combination with a body having a head on its upper end provided with a front right angular shoulder, a pin connected to the head and having a knurled wheel thereon, a flint member engaging the wheel, a wick, a cover secured to the ends of the pin, said cover having a front wall recessed on its inner face, and a coil spring having an intermediate part seated on the shoulder and having sides coiled about the pin and having free ends each of which is engaged in the recesses in the front wall of the cover.

In testimony whereof I affix my signature.

WILLIAM P. ARON.