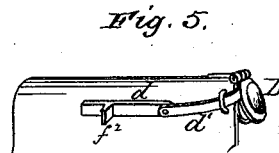
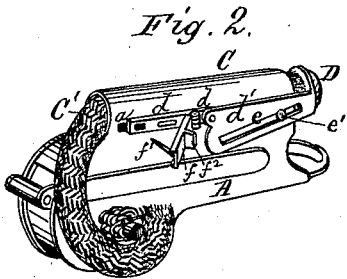
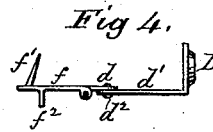
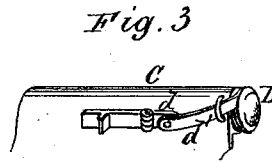
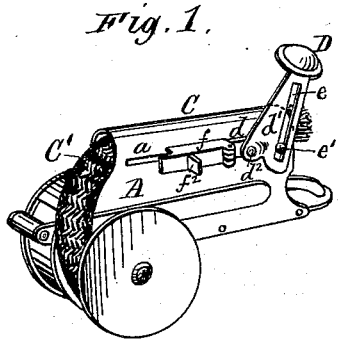


J. N. CLAWSON.  
Cigar-Lighters.

No. 196,194.

Patented Oct. 16, 1877.



Witnesses:  
Alexander Mahon,  
John B. Center.

Inventor:  
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# UNITED STATES PATENT OFFICE.

J. NEAL CLAWSON, OF PHILADELPHIA, ASSIGNOR TO GEORGE SELDEN, OF ERIE, PENNSYLVANIA.

## IMPROVEMENT IN CIGAR-LIGHTERS.

Specification forming part of Letters Patent No. **196,194**, dated October 16, 1877; application filed July 26, 1877.

*To all whom it may concern:*

Be it known that I, J. NEAL CLAWSON, of the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Cigar-Lighters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 represents a perspective view of my improved lighter, with the cap or extinguisher removed from the wick-tube, and the wick moved out into position for being ignited. Fig. 2 is a similar view, with the wick and cap drawn part of the way back to the position they assume when the wick is to be extinguished; and Figs. 3, 4, and 5 represent modifications in the devices for removing the extinguisher, thrusting out the wick, and retracting the same, hereinafter explained.

Similar letters of reference denote corresponding parts wherever used.

My invention relates to that class of pocket-lighters employing an adjustable wick or tinder and an adjustable continuous or repeating match, by means of which the wick or tinder may be ignited at will, and these may be placed in a pocket-case under any usual or preferred form and arrangement for the purpose.

My improvement consists in a novel means for removing and replacing the cap or extinguisher applied to the wick tube or receptacle, for adapting the wick to be moved out and ignited, and to be withdrawn and extinguished, as hereinafter explained.

In the accompanying drawing, A represents the lighter-case, made in the form shown in Letters Patent granted to me May 1, 1877, or in any other usual or preferred form for the purpose, and to or within which the continuous or repeating match, the means for feeding and igniting the same, and the wick C' may be applied under any usual or preferred arrangement.

In the present instance the wick-tube C is shown as formed on one of the side casing-plates; but it may be made separately and soldered, pivoted, or otherwise attached externally to the case A, as may be preferred.

This tube is slotted longitudinally upon one

side at *a*, and has a slide, *d*, applied to it, adapted to work back and forth in said slot, or in ways arranged at the side thereof; and to the forward end of this slide a slotted link, bar, or plate, *d*<sup>1</sup>, is pivoted, said link or plate extending to the forward end of the tube C, and having the cap or extinguisher D attached to its forward end, as shown.

The plate *d*<sup>1</sup> is expanded in width at its rear pivoted end, and has a slot, *e*, formed in it, set obliquely to the line of movement of the slide *d*; and a headed pin at *e*', passing through the slot *e*, and attached to the side wall of the tube or casing, serves to control the direction of movement of the link *d* and of the cap D, attached thereto, causing the latter to be forced to one side of the tube and out of the way of the wick when the slide is forced forward, as shown in Fig. 1, and returning it into line with, for covering and closing, the wick-tube when the slide is withdrawn, as shown in Figs. 2 and 3.

In rear of the pivotal connection *d*<sup>2</sup>, between the slide *d* and link *d*<sup>1</sup>, the slide *d* has a hinged plate or extension-piece, *f*, attached to it by a hinge at its forward end, arranged at a right angle to pivot *d*<sup>2</sup>, as shown, said plate extending rearward, and being provided at its rear end with a point or spur, *f*<sup>1</sup>, adapted to pass through the slot *a* into the wick-tube, and to engage with the wick for moving the latter out or in with the movement of the slide *d*, as required.

When it is not desired to move the wick, the piece *f* is raised on its hinge, withdrawing the point or spur *f*<sup>1</sup> from the wick, and permitting the slide to be operated in either direction without moving the wick.

In the drawing the slide *d* is represented as extended underneath the hinged feed-plate *f*, and the spur *f*<sup>1</sup> as passing through a perforation therein; but this is not essential, as the plate *f* may constitute the extension, resting in contact with the wick-tube, with the point or spur *f*<sup>1</sup> passing directly through the slot therein.

The slide *d* or the hinged piece *f*, as preferred, is provided with a thumb-piece or spur, *f*<sup>2</sup>, affording a convenient means for manipulating the slide and the extinguisher connected therewith.

Figs. 3, 4, and 5 show modifications in the form of the link connecting the slide with the extinguisher, the slot therein being dispensed with, and the link itself being set in an inclined position, and passing through or between suitable guides or ways for giving it the oblique movement required.

In Figs. 3 and 4 the cap is shown rigidly connected with the link, while in Fig. 5 the cap is shown hinged to the wick-tube, and adapted to be rocked on its hinge for opening and closing the tube by the movement of the link.

Other modifications may be made in the form of the parts; but these are sufficient to illustrate the nature and object of my improvement.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a pocket-lighter, the combination of the cap or extinguisher with a slide, arranged and operating substantially as described.

2. The combination, in a pocket-lighter, of the slide *d*, extinguisher *D*, and slotted connecting-link *d'*, or its equivalent, for the purpose and substantially as described.

3. The combination, with the slide *d*, of the hinged plate or extension-piece *f*, provided with the feeding-spur, substantially as and for the purpose specified.

4. The combination, with the wick-tube *C*, of the cap *D*, slide *d*, connecting-link *d'*, and controllable feeding-spur *f*, arranged and operating substantially as and for the purpose set forth.

J. NEAL CLAWSON.

Witnesses:

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