

(No Model.)

J. F. NELSON.
LIGHTING DEVICE.

No. 442,534.

Patented Dec. 9, 1890.

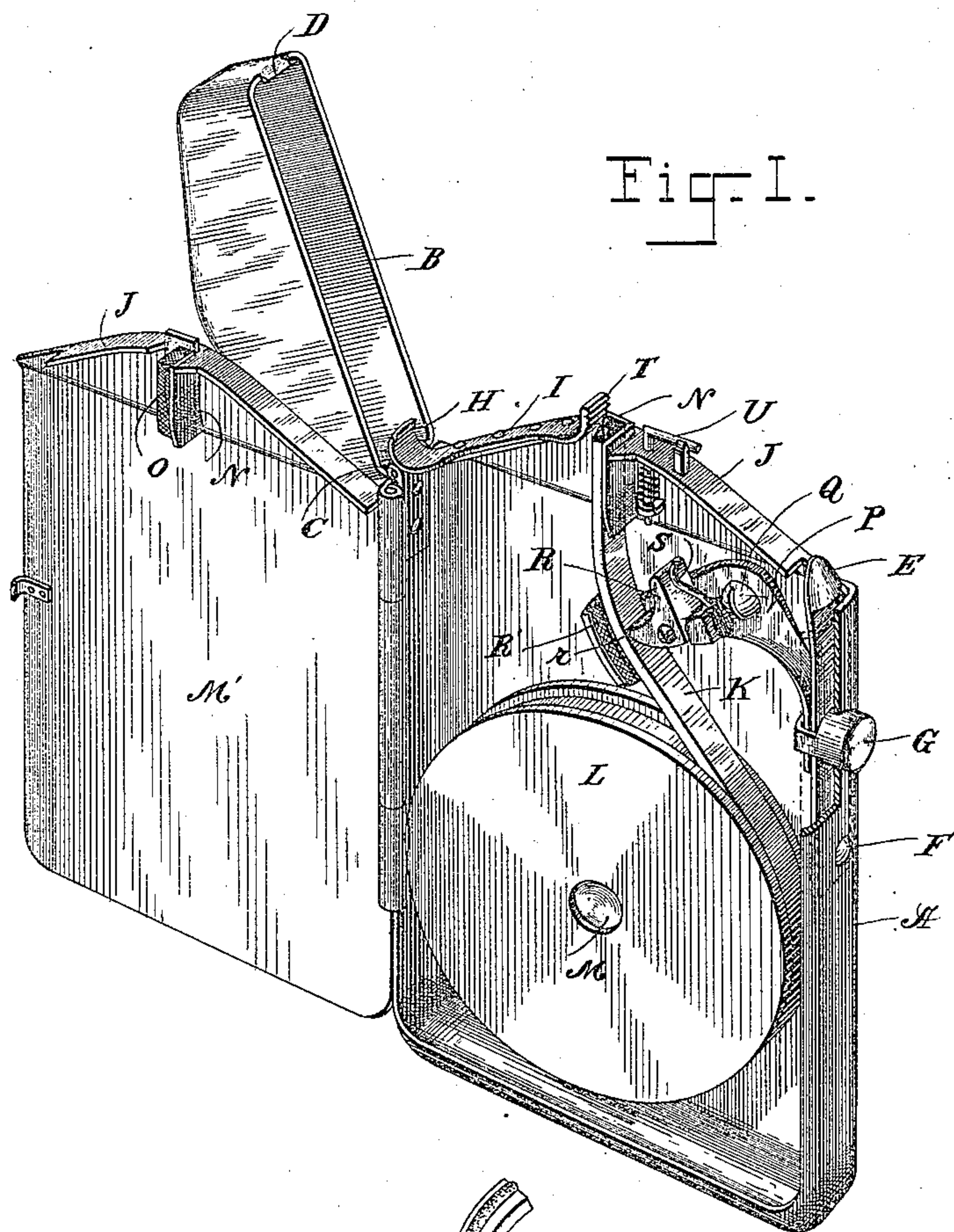
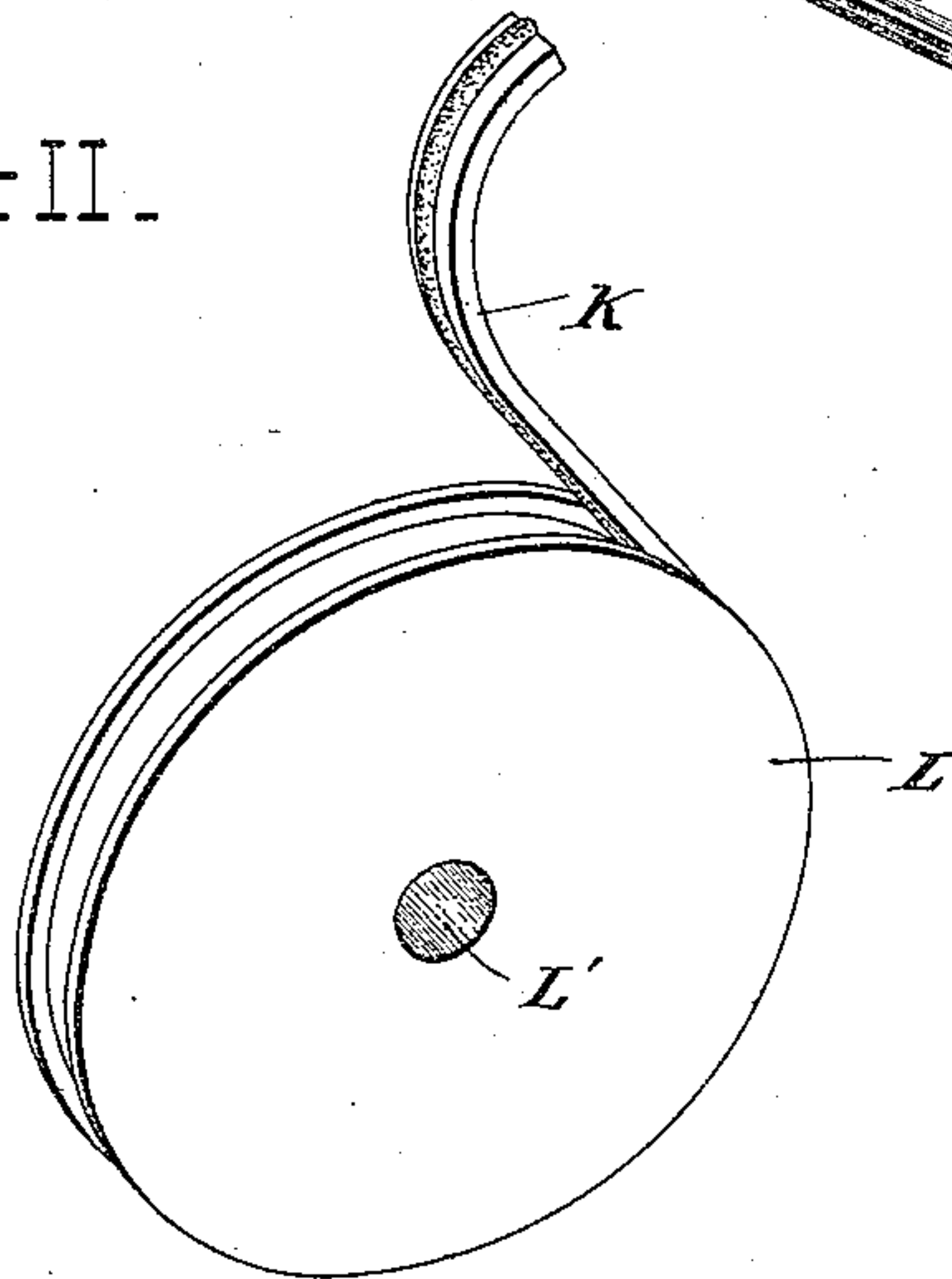


Fig. II.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN F. NELSON, OF BROOKLYN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO
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LIGHTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 442,534, dated December 9, 1890.

Application filed March 3, 1890. Serial No. 342,376. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. NELSON, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Lighting Devices, of which the following is a specification.

My invention relates more particularly to an improved pocket-lamp or cigar-lighter, and is adapted to be made of sufficient size to be carried in the vest-pocket, as will be hereinafter described.

My invention consists of a small casing or box provided with a reel or bobbin, on which is wound a combustible wick, preferably of highly-inflammable material, and in combining with said wick a fulminate or easily-ignitable compound continuously or nearly continuously along one edge of the wick, and so disposing the said wick as that when it is fed upward by an automatic device, which will be hereinafter described, a scratcher will be forced in contact with the fulminate and cause the igniting of the wick.

I also provide in connection with my lamp a lever and a spring-finger, which grasps the wick, and which is connected to a press-button mounted upon the lid-opening or lid-releasing spring, whereby when said button is pressed the lid or cover of the casing will fly open and the wick by the same movement will be automatically raised to an operative position, and the scratcher scraping against the fulminate will ignite the wick, all of which will be accomplished, as hereinbefore stated and as will be hereinafter shown, by the simple pressure upon the press-button.

I also provide other details of construction, which will be fully set forth in my description of the accompanying drawings, which form a part of this specification, and in which—

Figure I represents a perspective view of my lighting contrivance with the lid and side door open, so as to expose the interior parts. Fig. II is a perspective view of the reel or bobbin containing the combined fulminate and wick.

In the drawings, A represents the box or casing or safe provided with the lid or cover B, hinged thereto at C, the lid being provided at its other end with the lug or shoulder D for engagement with the spring-lock or re-

leasing-spring E, the latter being attached at F to the interior of the safe or casing A and being provided with a press-button G, attached thereto, as shown, and extending through a complementary opening at the side of the casing A, so that a pressure upon the press-button aforesaid will distort the lock-spring from its normal locking position and cause the lid or cover B to be thrown back from the top of the lamp box or casing, which latter operation is accelerated by means of a spring H, which presses, as shown, against the inside of the lid or cover, and is attached at I by means of suitable rivets to the inside cover J of the lamp-casing.

The combined wick and fulminate is shown at K, and is wound upon a reel or bobbin L, which is provided with a central orifice L', and is adapted to be placed upon the spindle M within the lamp-casing A.

The wick and wick-bobbin are removable and renewable when desired, the old one when worn out or used up being replaced by a new one. This is accomplished by the opening of the door M', hinged to the side of the lamp-casing, and which, when separated, as in the figures, will permit easy access to the interior.

The wick is fed up through the guide N to the top, the latter being lined, preferably, with a non-combustible material, such as india-rubber or asbestos O, thus preventing the spread of the flame downwardly into the lamp-casing.

Attached to and forming a part of the lid-opening spring E is a bell-crank lever P, hinged at Q to the lamp-casing and provided with a pawl R, pivoted thereto, and a small spring S, which is adapted to thrust the pawl, the latter being provided with a sharp point, into the wick, as shown, the farther end of the lever having a mat or cushion R' for supporting the wick at this point.

It will be seen that when the press-button G is pressed the bell-crank lever P will turn on its pivot, and the pawl, biting into the wick, will thrust it upwardly through the guide and expose the end above the top of the lamp. At the same time the inward pressure upon the button G will cause the liberation of the lid or cover B of the lamp-casing

A, and the spring E will cause the said lid to be thrown backward.

At T, I provide a scratcher or igniting device which will scrape against the fulminate material arranged upon that side of the wick and cause it to burn, thereby igniting the wick.

At U, I provide a small lever, which may be used to remove the cinder or ember from the top of the burned wick. This can be used or not, as may be desired.

The wick may be either flat, as shown, or cylindrical, if preferred.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In a lighting device, the combination of a

wick having a fulminate arranged along the edge thereof and in one therewith and mounted upon a reel or bobbin, a lamp-casing provided with a spindle for the reception of said bobbin, an opening through which the wick is fed, a lever for embracing the wick, provided with a pawl and a spring-piece, a spring-plate on which the said lever is mounted, a lid for the casing, and a push-button connected to the spring-plate and adapted to operate the cover and feed the wick forward simultaneously, as set forth.

JOHN F. NELSON.

Witnesses:

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