H. ELLIG.

MATCH-BOXES.

No. 193,859. Patented Aug. 7, 1877.

Fig. 1.

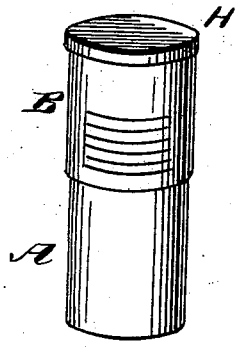


Fig. 2.

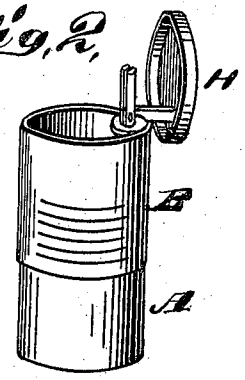


Fig. 3.

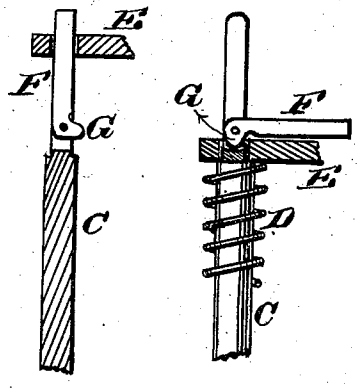


Fig. 6.

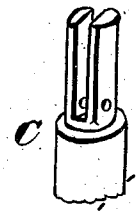


Fig. 7.



Fig. 4.

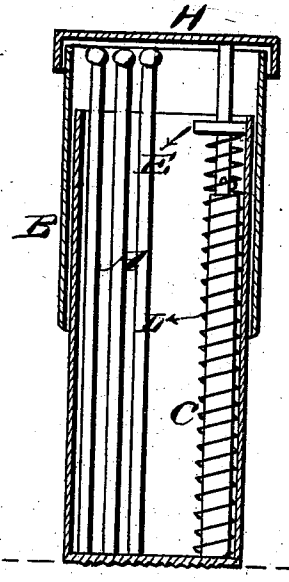
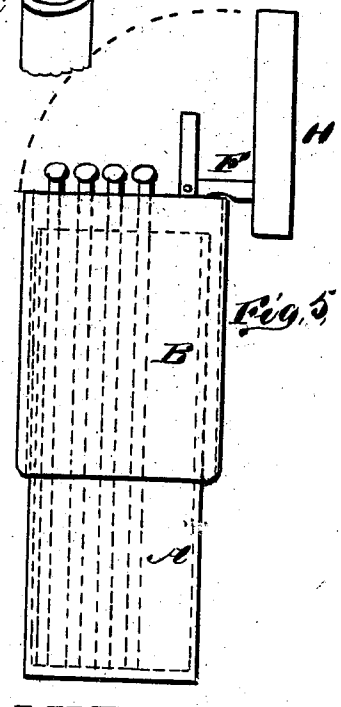


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY ELLIG, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND JOHN H. SCHREINER, OF SAME PLACE.

IMPROVEMENT IN MATCH-BOXES.

Specification forming part of Letters Patent No. **193,859**, dated August 7, 1877; application filed July 2, 1877.

To all whom it may concern:

Be it known that I, HENRY ELLIG, of the city of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Match-Boxes, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a perspective view of my match-box closed. Fig. 2 is a similar view of it opened. Figs. 3, 6, and 7 are detail views. Fig. 4 is a vertical section, and Fig. 5 a side view.

A is the body of a match-box, which may be of any form and length desired to suit the length of the matches to be used.

B is a cylinder, that slides on the outside of the match-box, similar to pieces of telescope, slipping one upon the other.

C is a stud or standard attached at or near the bottom of the box A, and extends upward as high as the top of the cylinder B.

Around this stud or standard is a spiral spring, D, one end of which rests on the bottom of the match-box, or it might rest on a shoulder on the standard. The upper end of the spring is under a projection or plate, E, which is attached at or near the upper edge of the sliding piece or cylinder B, so that when the cylinder is moved downward the spring is compressed, and when the cylinder B is not held down the spring D will raise the cylinder B to its original position.

F is an arm, pivoted at one end in a slot in the standard C. The other end of the arm is permanently attached to the lid H. The portion of the arm which is pivoted in the slot has a projecting piece, G, which is on the under side of the plate E, so that when that plate is forced downward by moving the cylinder B, the other end of the arm F is thrown upward and backward, carrying the lid H with it, so as to entirely open the match-box.

Operation: The match-box is made to receive matches of the usual length without the lid pressing on them when closed. When the sliding piece B is pressed downward, and the lid thereby thrown upward and backward, sufficient length of the upper end of the matches is exposed, so that one or more, as required, can be caught by the fingers and taken out without shaking or turning the mouth of the match-box downward.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a match-box, of the stud or standard C, plate E, attached to the sliding case B, and a spring, D, as set forth.

2. The lid H, arm F, projection G, and plate E, the arm being pivoted to the stud or standard C, all combined substantially as described and represented, and for the purpose set forth.

3. The combination, with the match-box A, of the cylinder B, the stud C, the spring D, the plate E, the arm F, having projection G, and pivoted to the standard C, and the lid H, substantially as described, and for the purpose set forth.

HENRY ELLIG.

Witnesses:

SLATEN C. TAYLOR,

J. A. DICKINSON.