(No Model.)

D. COYLE.

ENVELOPE MOISTENER AND CLOSER.

No. 447,809. Patented Mar. 10, 1391.

Fig. 1.

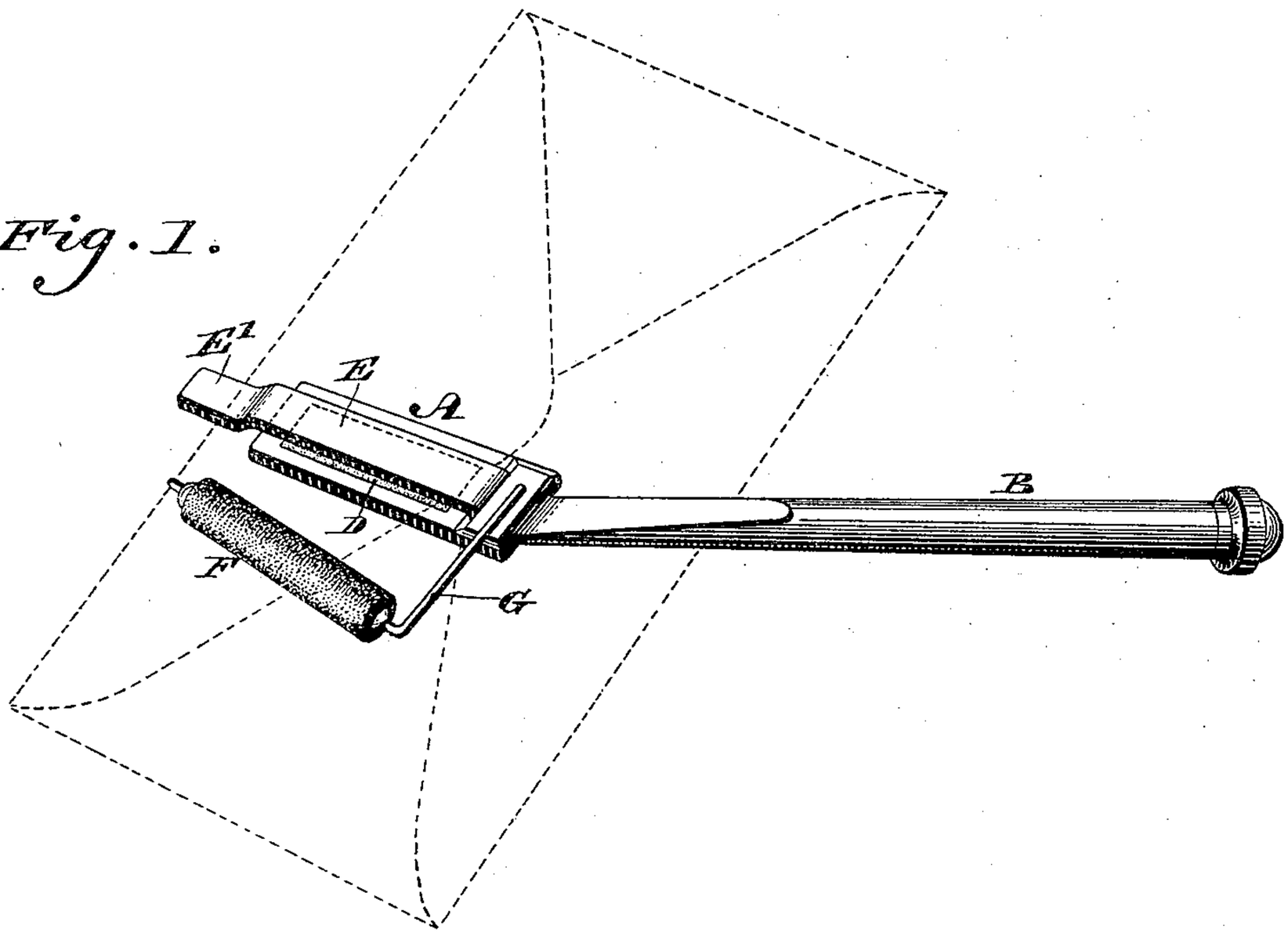
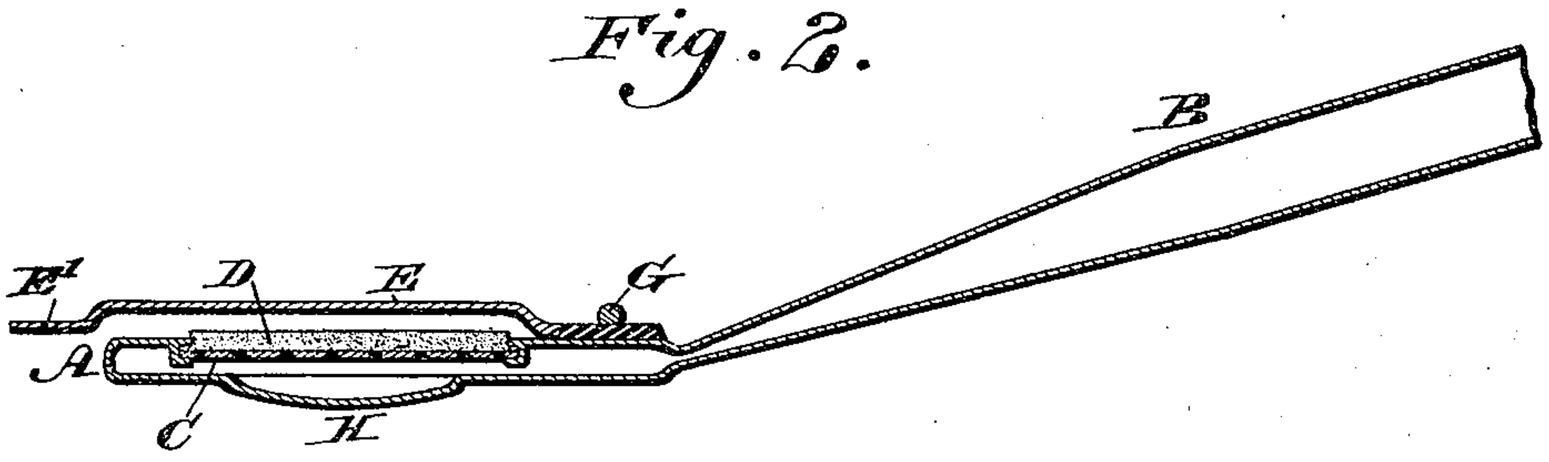


Fig. 2.



WITNESSES:

P. F. Cragle.

L. Douville.

INVENTOR

Daniel Coyle.

BY Johnson & Siderosheim

ATTORNEY.

UNITED STATES PATENT OFFICE.

DANIEL COYLE, OF PHILADELPHIA, PENNSYLVANIA.

ENVELOPE MOISTENER AND CLOSER.

SPECIFICATION forming part of Letters Patent No. 447,809, dated March 10, 1891.

Application filed June 2, 1890. Serial No. 353,961. (No model.)

To all whom it may concern:

Be it known that I, DANIEL COYLE, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Envelope Moisteners and Closers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a device for moistening the flaps of envelopes and closing or sealing the same, embodying a reservoir for water, a distributing-chamber, a pad for applying the water to the envelope, a guard for holding the flap, &c., while the water is applied thereto, and a pressing device for causing the sealing or closing of the envelope.

Figure 1 represents a perspective view of an envelope moistener and closer embodying my invention. Fig. 2 represents a central longitudinal section thereof.

Similar letters of reference indicate corresponding parts in the two figures.

Referring to the drawings, A designates a chamber formed of sheet metal or other suitable material, and B designates a hollow or partly-hollow handle connected with said chamber and in communication therewith. The upper wall of the chamber A is perforated, as at C, or occupied in part by a perforated plate, over which is secured a pad D, of cloth or other suitable fabric of an absorbent nature.

E designates a guard or finger, which is secured at its inner end to the wall of the adjacent portion of the chamber A and separated therefrom so as to leave a space for the insertion of the flap of an envelope or other strip or piece of paper, &c., to be moistened.

F designates a roller of rubber or other elastic or pliable material, the same being mounted on an elbow or arm G, which is secured to the wall of the chamber A, said roller being located at the side of said chamber. In the base of the chamber A is a swell H, forming a spring for pressing the water against the perforated top of said chamber.

The operation is as follows: The handle is supplied with water and then closed by a cap or plug, so as to prevent escape of the same, the water then entering the chamber A. The implement is now presented to an envelope, &c., so that the flap enters between the guard E and pad D, and the implement moved laterally as it rests on the swell H. The weight or pressure on said swell forces the water upwardly through the perforations at the top of the chamber, so as to reach and saturate the pad D, whereby it is brought into contact with the gum or adhesive material of the envelope, thus moistening the same. The roller F follows the chamber A and presses the flap against the back of the body, thus causing the closing and sealing of the envelope, the implement then clearing the back and body of the envelope and being ready to be applied afresh elsewhere.

In order to prevent cutting of the flap of the envelope, the free end of the guard E is shouldered or bent downwardly, as at E′, so as to bear upon said flap as the implement is operated.

The roller F may be substituted by a stationary piece of material on the arm G, so that in either case it exerts pressure on the flap.

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

1. In an envelope moistener and closer, a chamber having a perforated top and a yielding wall opposite the same, substantially as described.

2. In an envelope moistener and closer, a chamber having a perforated wall and a hollow handle, the latter being in communication with said chamber, substantially as described.

3. A moistener for envelopes, &c., provided with a pressing or closing device projecting laterally from the side thereof, substantially as described.

4. A fluid-receiving chamber having discharge-openings, and a guard above the same, in combination with a pressing device projecting laterally from the side of said chamber, substantially as described.

5. A fluid-receiving chamber having discharge-openings, an absorbent pad on said openings, and a yielding wall opposite said openings, in combination with a guard above said pad, and a pressing-roller aside of said chamber, substantially as described.

6. The chamber A, with perforated wall C,

and pad D thereover, the guard E above said pad, the arm G, secured to the chamber, a pressing device on said arm, and a handle attached to said chamber, the base of the chamber having a yielding part, so as to force the contents of the chamber through the perforated wall and supplying the pad with the same, substantially as described.

7. In a device, substantially as described, the guard E, having a shoulder E′, for the purpose set forth.

DANIEL COYLE.

Witnesses:
JOHN A. WIEDERSHEIM,
A. P. JENNINGS.