

(No Model.)

E. L. MOODIE.
TOILET PAPER SAFE.

No. 441,620.

Patented Nov. 25, 1890.

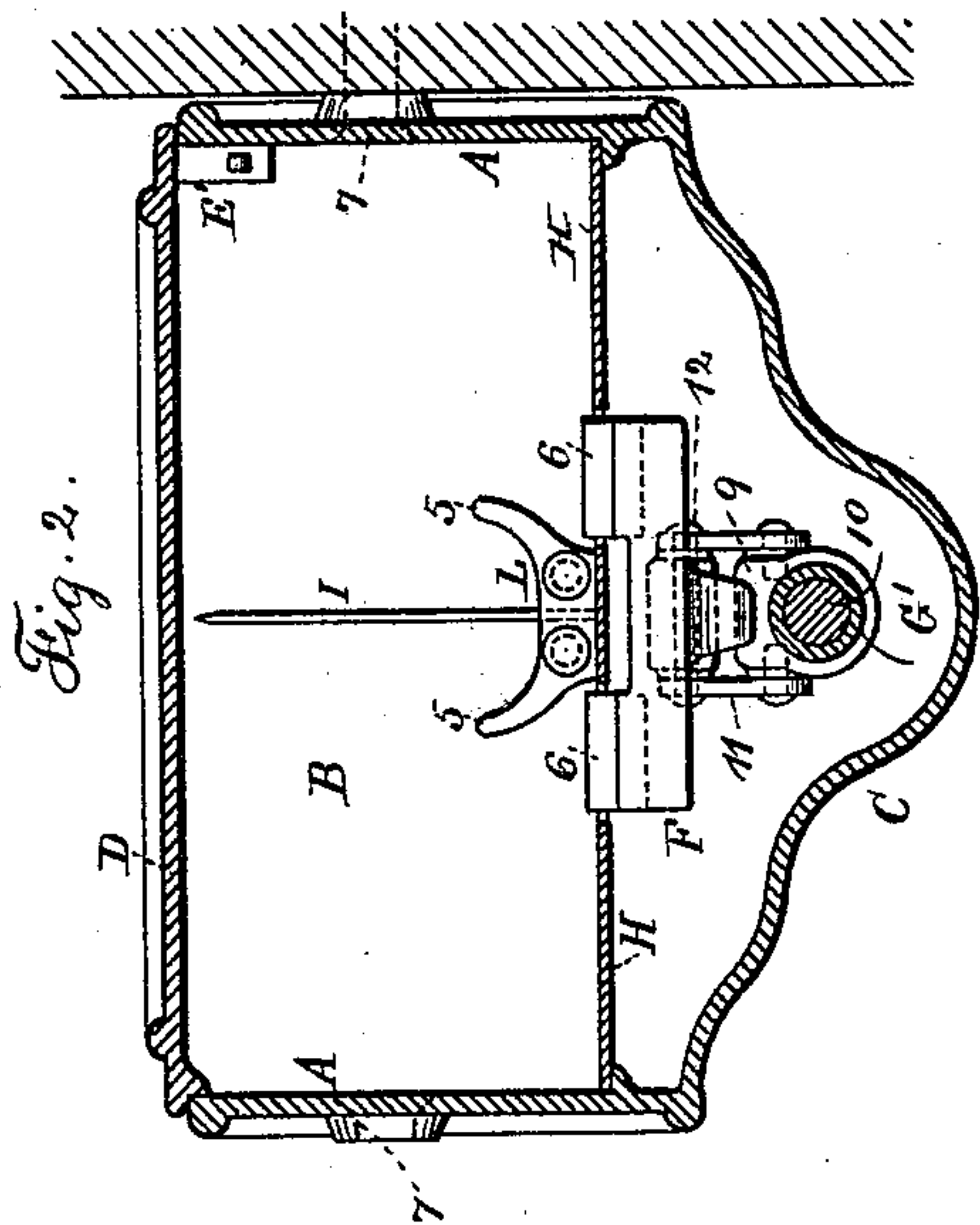


Fig. 4.

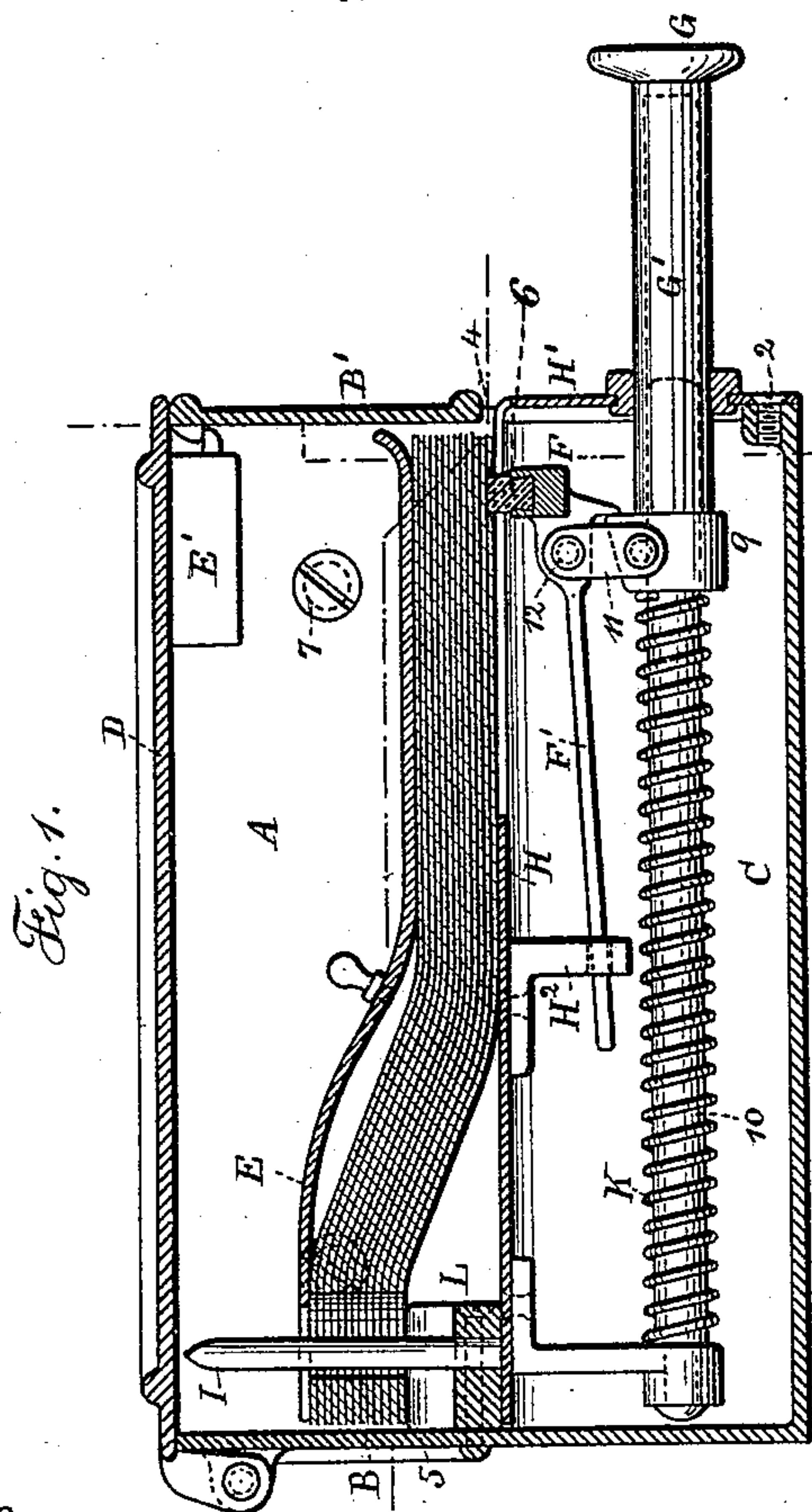
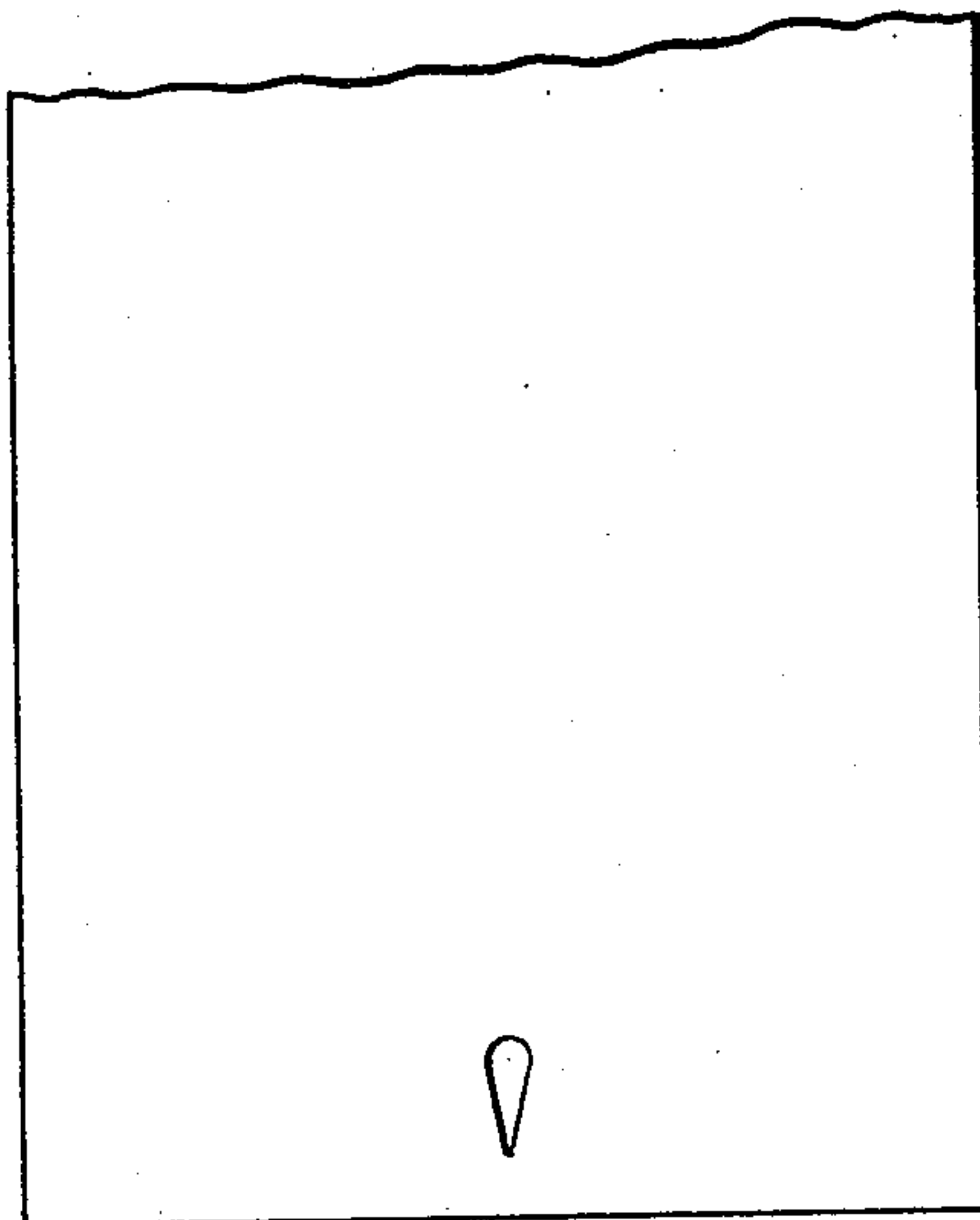
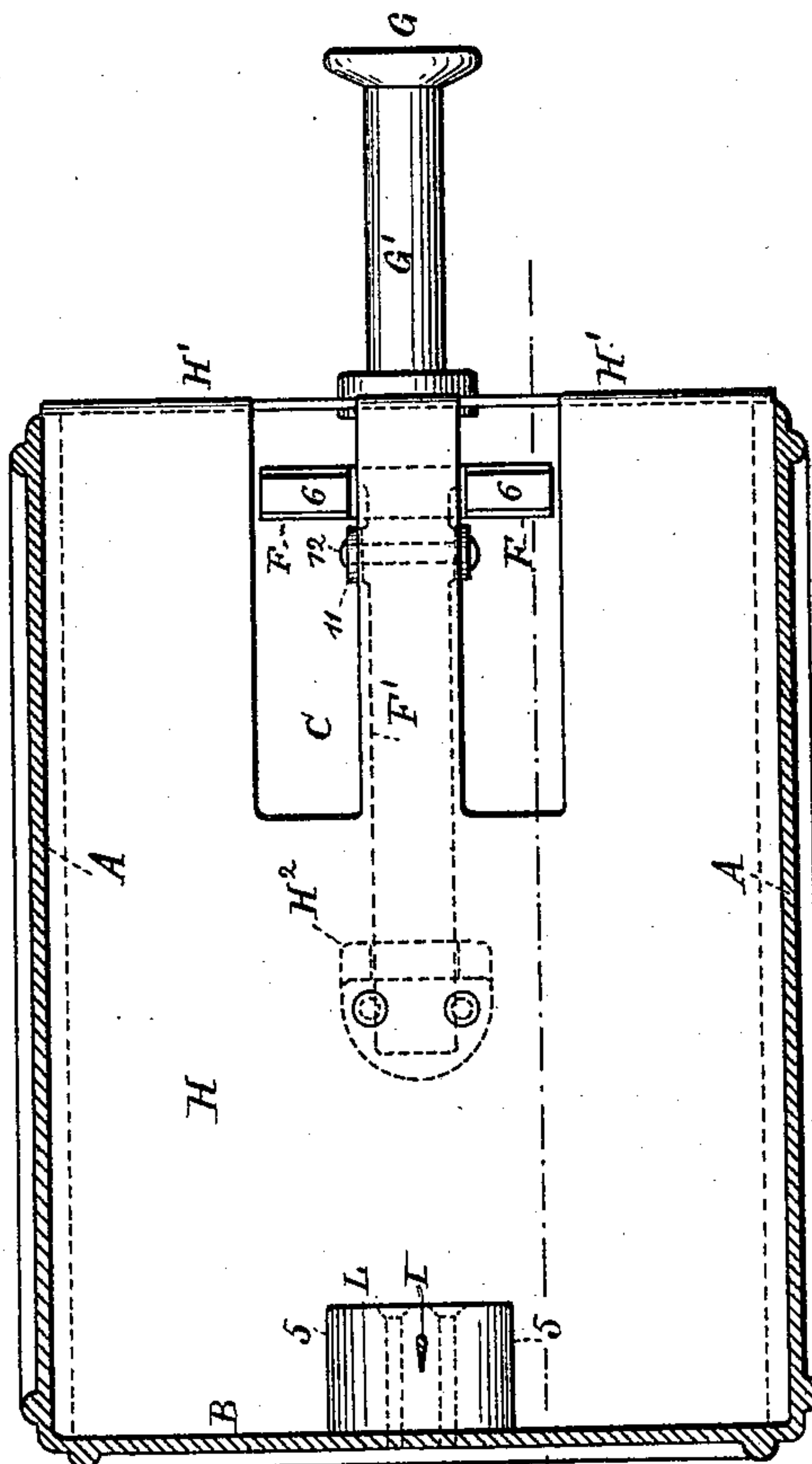


Fig. 3.



Witnesses:
J. Stail
Chas. H. Smith

Inventor:
E. L. Moodie
per Lemuel W. Surrell atty

UNITED STATES PATENT OFFICE.

ELHANAN L. MOODIE, OF NEW YORK, N. Y.

TOILET-PAPER SAFE.

SPECIFICATION forming part of Letters Patent No. 441,620, dated November 25, 1890.

Application filed March 24, 1890. Serial No. 345,075. (No model.)

To all whom it may concern:

Be it known that I, ELHANAN L. MOODIE, a citizen of the United States, residing at the city, county, and State of New York, have invented an Improvement in Cases or Safes for Toilet-Paper, of which the following is a specification.

In Letters Patent No. 416,340, granted to me, a safe for holding toilet-paper is formed as a box, in which a package of paper lies in a horizontal position, and there is a point which penetrates the paper and acts as a detainer that prevents more than one sheet at a time being drawn out from the box, and there is a delivery-plate to which a reciprocating motion is given to act as a rubber for drawing along and delivering one sheet at a time through the opening or mouth at the end of the box. The present improvements are for accomplishing the same object, and such improvements relate to the details in the construction of the parts, as hereinafter set forth.

In the drawings, Figure 1 is a vertical section longitudinally of the box. Fig. 2 is a cross-section, and Fig. 3 a sectional plan view. Fig. 4 represents a portion of the package of paper.

The box is preferably made of cast-iron in one piece, there being the sides A A, ends B B', and bottom C, and there is a cover D, preferably hinged at one end and provided with a lock E' of any suitable character for holding the cover in a closed condition. The bottom C of the box is, by preference, trough-shaped in the form of a compound curve transversely, in order that the actuating parts of the box may be received into the trough-shaped bottom and below the supporting-plate H, which plate is preferably of sheet metal, and the end B' of the box terminates with a straight edge sufficiently above the surface of the supporting-plate H for the sheet of toilet-paper to be passed out through the opening or mouth 4, left between the surface of the plate H and the bottom edge of the end B' of the box, and this supporting-plate H has an end piece H' bent at right angles, or nearly so, to the supporting-surface, and adapted to close the end portion of the concave bottom C, the outline of the edges of the end piece H' corresponding to the outline of the lower surface of the bottom C, and at 2 there is a

screw passing through the end piece H' into the bottom C for connecting such end piece H' to the box, and by the removal of this screw 2 the supporting-plate H and end piece H' will be liberated, and can be drawn out endwise from the box or passed into such box again and secured by the screw. This facilitates the construction of the box and also allows for the easy removal of the parts if repairs become necessary, as it is advantageous to connect the delivery-plate and the parts that give motion to the same entirely upon the under side of the supporting-plate H.

The devices for actuating the delivery-plate are somewhat similar to those described in my aforesaid patent—that is to say, the delivery-plate F has a slide-bar F' connected to the same and passing through a stationary support H², and there is a push-button G at the end of the rod or tube G', that is moved forward by the spring K, and there are links 11 between the collar or block 9, upon the tube G' and the pivot 12, that connects such links to the delivery-plate, and upon such delivery-plate F there are blocks of rubber 6 or roughened surfaces to act against the lower sheet in the package of toilet-paper. It will be observed that the tube G' passes through the end piece H', and the stationary support or rod 10 is connected with the under side of the supporting-plate H. Hence by removing the screw 2 the supporting-plate H and end piece H' can be removed, together with the delivery-plate and parts that give motion to the same. As the push-button G is pressed inwardly, the links 11 swing and the delivery-plate is lowered, and as the spring k forces the parts forward in the opposite direction the links 11 cause the delivery-plate to move upwardly and the surfaces 6 to act upon the under sheet of the paper and deliver the same through the mouth 4. The pressing-plate E, that rests upon the package of toilet-paper, is somewhat similar to that represented in my aforesaid patent; but it is notched where the holding-blade I is located, so as not to come into contact with such holding-blade. This holding-blade I is in the form of a vertical wire or flat strip, somewhat similar to a dull knife-blade, and its lower end is permanently connected to the base L, which base L is either fastened to the supporting-plate H or to the

inner surface of the back end B of the box, and this base L rises at each side of the holding-blade in the form of bearers 5, upon which the lower sheet of paper in the package of paper rests, there being a concave or hollow portion between the bearers 5, and the lower end of the holding-blade is within this concave portion of the base L.

The package of paper is to be perforated either with a circular or, by preference, a triangular hole passing through the entire package and located at such a place that when the package of paper is introduced within the box A B the holding-blade I passes through the hole in the package of paper, and as the bottom sheets are carried away successively by the action of the push-button and delivery-plate each sheet is torn by the action of the holding-blade, and in consequence of the package being supported upon the bearers 5 there is ample space in the base L for any filaments that may adhere to the sheet where it is torn, passing along with such sheet and not accumulating behind the edge of the holding-blade, and this holding-blade, passing through the hole in the package of paper, firmly secures such package of paper in its proper position within the box or safe, and the holding-blade does not require to have a sharp point that is liable to become bent or dull, as in my aforesaid patent, and I do not find that it is necessary to have this holding-blade sharp; but, on the contrary, it is preferably provided with a rounding or wire edge, so as to tear rather than cut the paper.

It is advantageous to provide screw-holes at 7 in the sides A A of the box in order that such box may be attached against a wall or partition in any convenient position, and the entire toilet-paper safe is very cheap to construct and durable in its operation.

I claim as my invention—

1. In a toilet-paper safe, the box having sides A A, ends B B', and bottom C in one

casting, in combination with the sheet-metal supporting-plate H for the package of toilet-paper to rest upon, and the end piece H', formed with the supporting-plate H, and closing the lower portion of the box below the mouth 4, and the delivery-plate, and mechanism for actuating the same, substantially as set forth.

2. The push-button G and the rod or tube G', in combination with the supporting-plate H and end piece H', the tube G', passing through the end piece H', the links 11, spring K, and delivery-plate F, slide-bar F', and stationary support 10, connecting with the supporting-plate H, and the box or safe A A B B', and bottom C, substantially as set forth.

3. The combination, in a toilet-paper safe, of a slotted horizontal supporting-plate for the package of paper, a delivery-plate acting through the slot in the supporting-plate, and mechanism below the supporting-plate for giving motion to the delivery-plate, and a holding-blade passing through the paper near one end thereof, substantially as set forth.

4. The combination, in a toilet-paper safe, of a slotted horizontal supporting-plate for the package of paper, a delivery-plate acting through the slot in the supporting-plate, and mechanism below the supporting-plate for giving motion to the delivery-plate, a base for raising up one end of the package of paper, and a holding-blade passing through the paper near the raised end thereof, substantially as set forth.

5. The holding-blade I, in combination with the base L, having the bearers 5 at each side thereof, there being space at each side of the holding-blade and below the bearers and within such base L, substantially as set forth.

Signed by me this 22d day of March, 1890.

ELIHANAN L. MOODIE.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.