No. 680,368. Patented Aug. 13, 1901.

W. P. SHATTUCK.

ENVELOP.

(Application filed Aug. 13, 1900.)

(No Model.) 2 Sheets—Sheet 1.

FIG. 9.

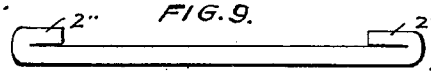


FIG. 1

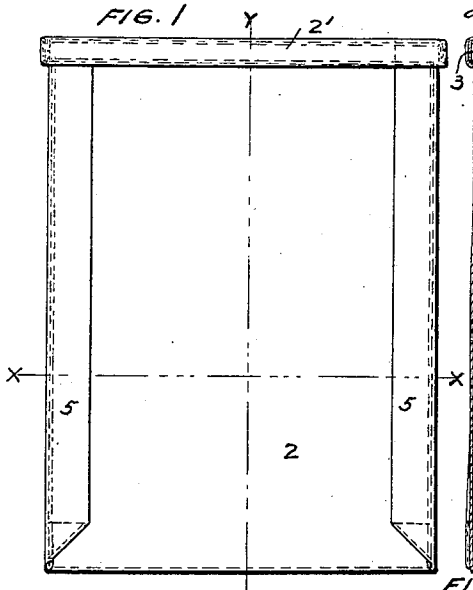


FIG. 2.

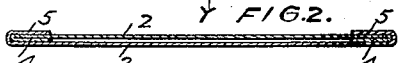


FIG. 7.

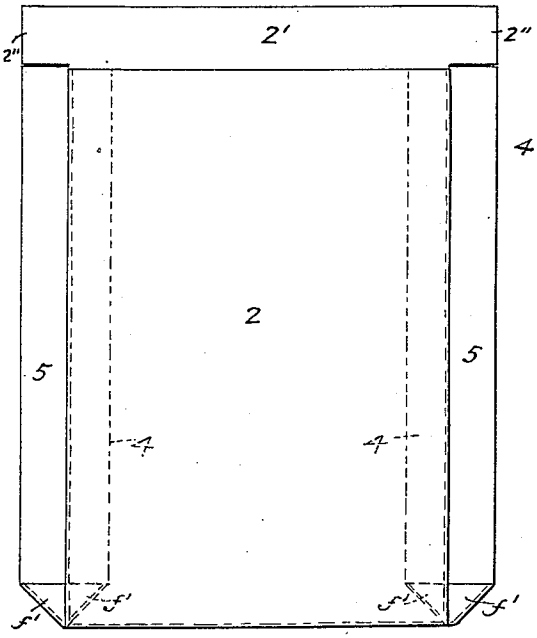


FIG. 4.

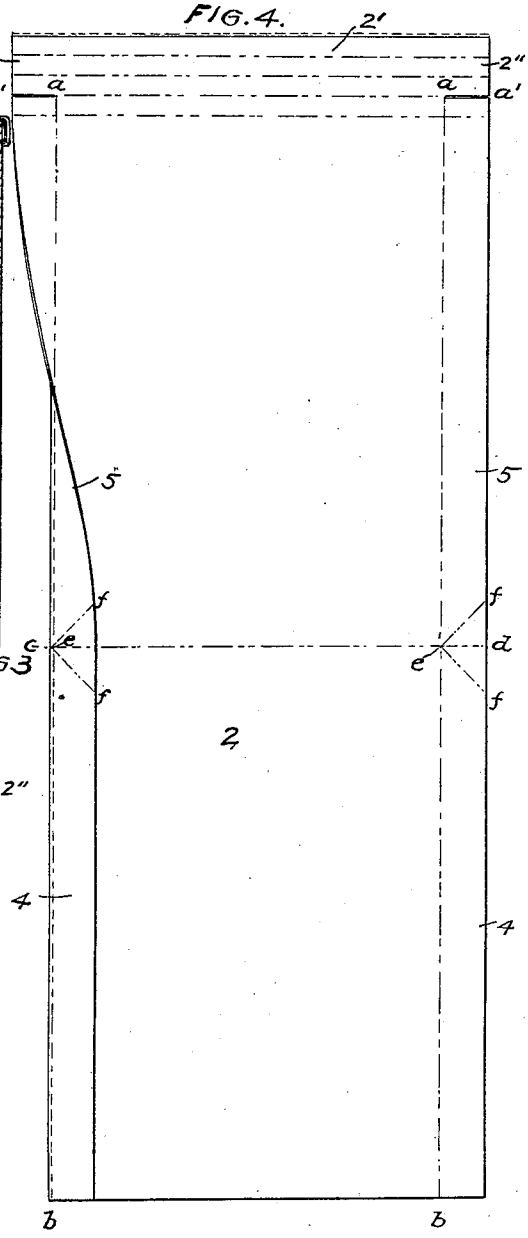
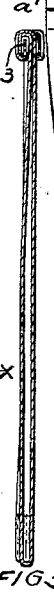


FIG 3



INVENTOR.

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by Paul Stanley Atty

WITNESSES

J. Jensen

F. A. Bowersock

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No. 680,368. Patented Aug. 13, 1901.

W. P. SHATTUCK.

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(No Model.) 2 Sheets—Sheet 2.

FIG. 8

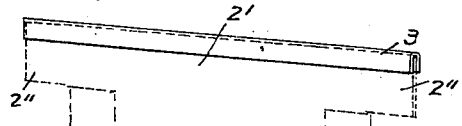
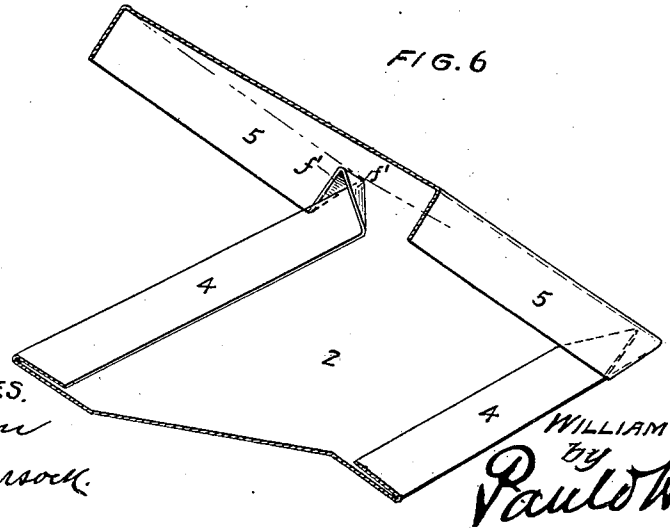


FIG. 5.

FIG. 6



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Attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM P. SHATTUCK, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO THE SHATTUCK MANUFACTURING COMPANY, OF SAME PLACE.

ENVELOP.

SPECIFICATION forming part of Letters Patent No. 680,368, dated August 13, 1901

Application filed August 13, 1900. Serial No. 26,736. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. SHATTUCK, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Envelops, of which the following is a specification.

This invention relates to improvements in envelops, and particularly to envelops designed for use in mailing third and fourth class mail-matter.

The object I have in view is to provide an envelop of this class that is capable of being readily opened for the purpose of inspecting the contents, that is strong and durable, and hence capable of being used for mailing heavy articles, and that shall when closed be perfectly tight, and thus prevent the loss of the material therefrom.

The invention consists generally in an envelop provided at its meeting edges with double flaps, one pasted to the inside of one wall of the envelop and the other pasted to the outside of the opposite wall.

The invention consists, further, in the constructions and combinations hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of an envelop embodying my invention. Fig. 2 is a horizontal section of the same on the line x x of Fig. 1. Fig. 3 is a vertical section on the line y y of Fig. 1. Fig. 4 is a view of the envelop-blank, showing one of the edges partially turned over to form the double flap at that edge of the envelop. Fig. 5 is a perspective view of the blank partially folded. Fig. 6 is a partial perspective view of the same, showing the parts in another position. Fig. 7 is a rear elevation of the envelop as it appears just before the side flaps are fastened. Fig. 8 is a perspective detail of the metal closing or fastening strip. Fig. 9 is a top view of the completed envelop as it appears when closed.

The envelop is formed of the rectangular blank 2, which is scored on the lines a b to form the side flaps 4 and 5, on the line c d to form the central or bottom fold, and on the lines e f to form the folds which permit the side flaps to be arranged one upon the inside and the other upon the outside of the envelop. The blank is also preferably cut on the lines a a' between the ends of the side flaps and the closing part. The blank being cut and scored on the lines indicated, it is then folded on the line c d and on the lines e f, as shown in Figs. 5 and 6 of the drawings. The outer surface of one side flap is then pasted to the inner surface of the opposite body part of the envelop, and the inner surface of the other side flap at the same side of the envelop is pasted on the outer surface of the opposite body part of the envelop. The folds on the lines e f permit the arrangement of one of the flaps upon the inside and the other upon the outside of the envelop, as illustrated by Figs. 5 and 6 of the drawings. This provides a double flap at each side of the envelop, one flap connecting one body part to the opposite body part on the inside of the envelop and the other flap similarly connecting the body parts upon the outside of the envelop.

The particular feature of my invention is the solid corner furnished for the envelop by each of the folds f e f. It will be noted that the envelop is not cut or punctured at these points. Instead the paper is folded in such a manner that the slack furnishes two strengthening angles or folds at each corner of the bottom of the envelop. These small folds f' are glued or pasted, so that when the folds are pressed together the three surfaces f' will stick to the folds 4 and 5 and the front or upper half of the envelop, making a very solid, strong, and perfectly-tight corner, which will be stronger than any other part of the envelop. At the same time the envelop opens square at the bottom—that is, the corners are not filled, beveled, or cut off.

Another feature of my invention is the double strength of the edges of the envelop, due to the two pasted folds at each side.

It will be noted that the blank from which the envelop is made is rectangular, there being absolutely no waste in making the envelop. The top 2′ of the envelop projects beyond the edges of the envelop after the same has been completed, so that when the envelop is to be sealed the top 2′ may be first

folded down over the rear or back of the envelop, after which the projecting ends 2″ may be folded around and stuck upon the face of the envelop. The particular object, however, of the wide top or flap 2′ is to afford the necessary paper to completely cover a soft-metal strip that is rolled therein, and every part of which may be thus covered with paper, as required by the postal regulations. While any suitable device may be employed for closing the envelop, this metal strip is best adapted for envelops intended for third and fourth class mail-matter, and, as shown in the drawings, this strip 3 is a U-shaped single strip of sheet metal, which is placed across the end of the blank and secured thereto by folding, pressing, or clamping the U-strip of metal upon the edge of the fold 2′. The metal strip is as long as the fold is wide and remains bare until the fold is rolled preparatory to sealing the envelop. When it is desired to seal or close the envelop, the strip is rolled into the fold or flap 2′, (see transverse dotted lines, Fig. 4,) and when thus rolled the strip will be entirely covered with paper. The strip is rolled down so that it takes in a part of the rear body part of the envelop, and the ends of the strip are then bent and folded around onto the front body part of the envelop. By this simple construction I am able to provide a metal-closed envelop with all the parts of the metal covered with paper in conformity with the postal regulations, and the requirement for a separate paper cover for the metal strip is obviated. It is a well-known fact that the cost of the closure-strip and of attaching the same to the envelop has heretofore equaled the cost of the envelop taken by itself, and it is also a well-known fact that the paper covers of the strips as heretofore used have been very apt to get loose and render the envelop unfit for use. This difficulty is entirely overcome in my invention by the covering of the metal strips with the flap or fold of the envelop in the same piece with the envelop and with the same material as that from which the envelop is made.

In addition to the advantage gained by the great reduction in the cost of my envelop as compared with others my envelop may be made from any paper-stock desired, and the envelops may be made from tissue-paper, adapting the same for many new uses by reason of the fact that as the blank is not cut at the corners the envelop made therefrom is not apt to tear or open and also because of the double sticking or pasting of the sides of the envelop.

Several modifications of my invention will readily suggest themselves to those skilled in the art, and I do not confine myself to the specific construction herein shown and described.

In the drawings the envelop is shown to be rectangular in shape, and it is so described in the foregoing specification, and the same term "rectangular" will be employed in the claims; but as so employed it is intended to include and cover an envelop-blank and envelop of any other shape, as it is evident that the peculiar corner-fold of my invention admits of the manufacture of envelops of many different shapes. If desired, several corner-folds may be provided on each side of the envelop, so that the envelop may take the form of any regular or irregular polygon or other geometrical outline.

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

1. An envelop formed from a rectangular blank folded once upon itself to provide two body parts, said blank being provided throughout the length of the body parts with continuous uncut side flaps or folds, having the triangular folds f', f', and one part of each side flap being secured to the inside of the opposite body part, and the other part of each side flap being secured to the other side of the body part, substantially as described.

2. An envelop formed from a rectangular blank folded once upon itself to provide two body parts, said blank being provided throughout the length of the body parts with continuous uncut side flaps or folds having the triangular folds f' f', one part of each side flap being secured to the inside of the opposite body part, and the other part of each side flap being secured to the other side of the body part, and the upwardly and laterally projecting top flap 2′, substantially as described.

3. An envelop formed from a rectangular blank folded once upon itself to provide two body parts, said blank being provided throughout the length of the body parts with continuous uncut side flaps or folds having the triangular folds f' f', one part of each side flap being secured to the inside of the opposite body part, and the other part of each side flap being secured to the other side of the body part, the top envelop-flap 2′, and the U-shaped metal strip clasped upon the top edge of said flap 2′, said strip being of less width than said flap, and adapted to be rolled and covered therein and thereby to close the envelop, substantially as described.

4. The envelop provided with an upwardly and laterally projecting top flap, in combination with the U-shaped strip of metal clasped upon the top edge of said flap, said strip being of less width than said flap and adapted to be rolled in and covered by said flap, and the ends of said metal strip being adapted to be bent around the sides of the envelop, as and for the purpose specified.

In witness of the foregoing I have hereunto subscribed my name, this 1st day of August, 1900, in the presence of two witnesses.

WILLIAM P. SHATTUCK.

In presence of—
C. G. HAWLEY,
A. C. PAUL.