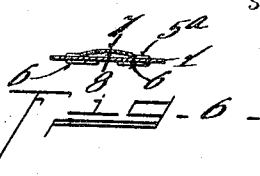
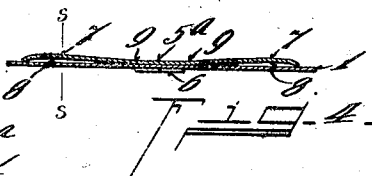
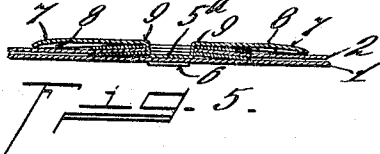
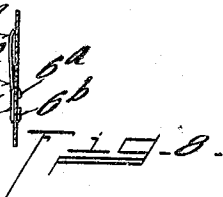
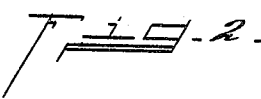
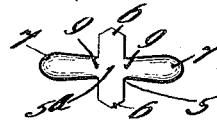
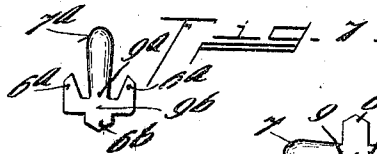
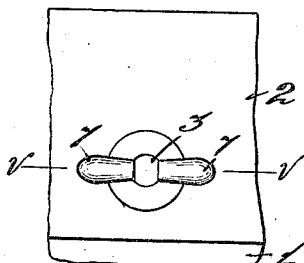
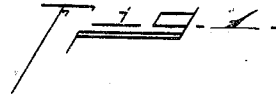
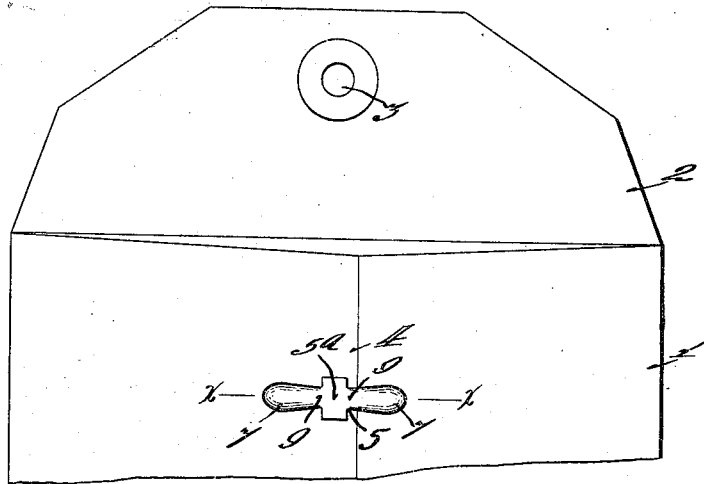


M. VIERENGEL.
 ENVELOP FASTENER.
 APPLICATION FILED MAR. 27, 1911.

1,061,341.

Patented May 13, 1913.



Inventor

Matthew Vierengel

Witnesses

C. B. Foster

Oliver B. Kaiser

By

Wood & Wood

Attorneys

UNITED STATES PATENT OFFICE.

MATTHEW VIERENGEL, OF BROOKLYN, NEW YORK.

ENVELOP-FASTENER.

1,061,341.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed March 27, 1911. Serial No. 617,147.

To all whom it may concern:

Be it known that I, MATTHEW VIERENGEL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Envelop-Fasteners, of which the following is a specification.

This invention relates to the shape or form of envelop fasteners.

The primary object of this invention is to provide an improved shape or form for envelop fasteners by means of which the pliable, tough, and substantially non-elastic sheet metal out of which said fasteners are constructed will be rendered stiff and inflexible throughout the flap holding portions of the wings without in any degree reducing its soft flexibility adjacent the central table or body of the fasteners.

Toward the attainment of this end my invention contemplates the provision of envelop fasteners having their prongs or wings arched transversely the depth of the arch being preferably greatest at their outer ends and reduced gradually to a flat neck or connecting band adjacent the central table or body.

In the accompanying drawings which exemplify an adaptation of my invention to a well-known type of envelop, Figure 1 is a plan view of the fastener applied to the under section of an envelop with the folding flap open. Fig. 2 is a plan view, showing the envelop folding flap clamped down in sealed position. Fig. 3 is a plan view of the fastener as it is struck out. Fig. 4 is a section on line *x, x*, Fig. 1. Fig. 5 is a section on line *v, v*, Fig. 2. Fig. 6 is a section on line *s, s*, Fig. 4. Fig. 7 is a plan view of a modified form of fastener, having a single clamping wing. Fig. 8 is a side elevation of the fastener shown in Fig. 7, attached to the envelop.

1 represents the envelop, having the folding flap 2, formed with the marginally reinforced aperture 3.

4 represents the underlying marginal edge of the body of the envelop covered by the folding flap 2 when sealed.

5 represents the metallic fastener cut cross-shaped and comprising the body portion 5^a, having tangs 6, which are bent downward and entered and clenched into the body portion 4 of the envelop.

7 represents the clamping portions of the

fastener, rounded at their outer edges and arched transversely by forming them with hollows 8 in their under faces, see Figs. 4, 5 and 6. These hollows are preferably terminated a little short of the central table or body portions 5^a, providing the intermediate bending necks 9, adjacent the tangs 6, which necks being flat, permit the wings to be readily flexed at this point.

In use, the wings 7, disposed as shown in Fig. 1, are bent upwardly into alinement with the aperture 3, and as the flap 2 is folded downwardly, pass through said aperture, after which the wings are bent downwardly into clamping position, as shown in Fig. 2, in which position they lie upon the outer surface of the folded flap 2.

Referring to Figs. 7 and 8, this modified form of fastener has a single convex clamping wing 7^a, a flat portion 9^a, body portion 9^b and three tangs 6^a, 6^a, 6^b. The tangs 6^a, 6^a, being substantially long afford an extended bearing surface to overcome the strain occurring in bending the wing 7^a, thereby preventing the fastener from being torn out of the envelop.

By imparting the transversely arched structure to the wings, they are made substantially rigid except at their bending necks. The user can more readily manipulate the wings without bruising or cutting the fingers, and the wings thus constructed do not readily cut the paper nor become accidentally opened by catching on adjacent packages. Furthermore, by reason of the wings being made to bend always at the flat neck, adjacent the central table or body, much annoyance is done away with that is met with in using the ordinary flat soft metal wings which become kinked and bent at a number of different places by repeated manipulations. In this event it is always difficult to make the wings fit snugly to the flap so that the outwardly projecting points or kinks commonly snag other mail pieces or become snagged in such a way as to not uncommonly release the flap and cause loss of the contents. The convexed outer wall in connection with the flat bending neck overcomes these difficulties completely and moreover said convex walls serve to deflect the sharp corners and the like of other mail packages, thus preventing the flap being released.

Having described my invention, I claim:—
1. An envelop fastener constructed of

bendable substantially inelastic metal comprising an attaching portion formed with means whereby it is adapted to be fastened to the body of an envelop, and a wing which is arched transversely to stiffen it and prevent its body being bent on itself, the arched formation of said wing being terminated adjacent the portion to be attached to the envelop to adapt the wing to be disposed normal to the envelop body for receiving the flap and to be folded down into position parallel to the envelop to retain the flap in closed position.

2. An envelop fastener constructed of bendable substantially inelastic metal comprising an attaching portion formed with means whereby it is adapted to be fastened to the body of an envelop, and wings which are arched transversely to stiffen them and

prevent their bodies from bending on themselves, the arched formation of said wings being terminated adjacent to the portion to be attached to the envelop to adapt the wings to be disposed normal to the envelop body for receiving the flap and to be folded down into position parallel to the envelop to retain the flap in closed position, the arched wings being arranged with their convex faces outward, in folded down position to facilitate the wings being forced snugly against the flap.

In testimony whereof, I have hereunto set my hand.

MATTHEW VIERENGEL.

Witnesses:

LOUIS ULBRICH,
CHARLES SCHNEIDER.