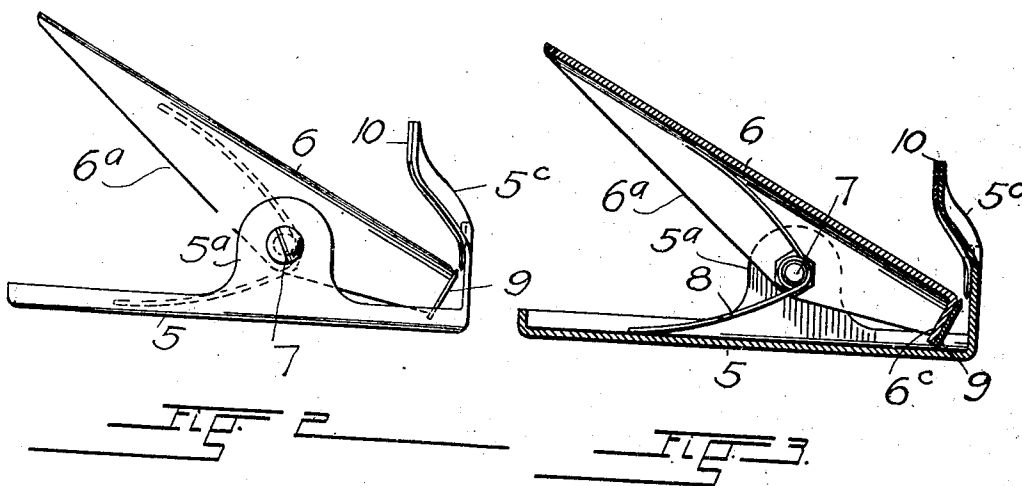
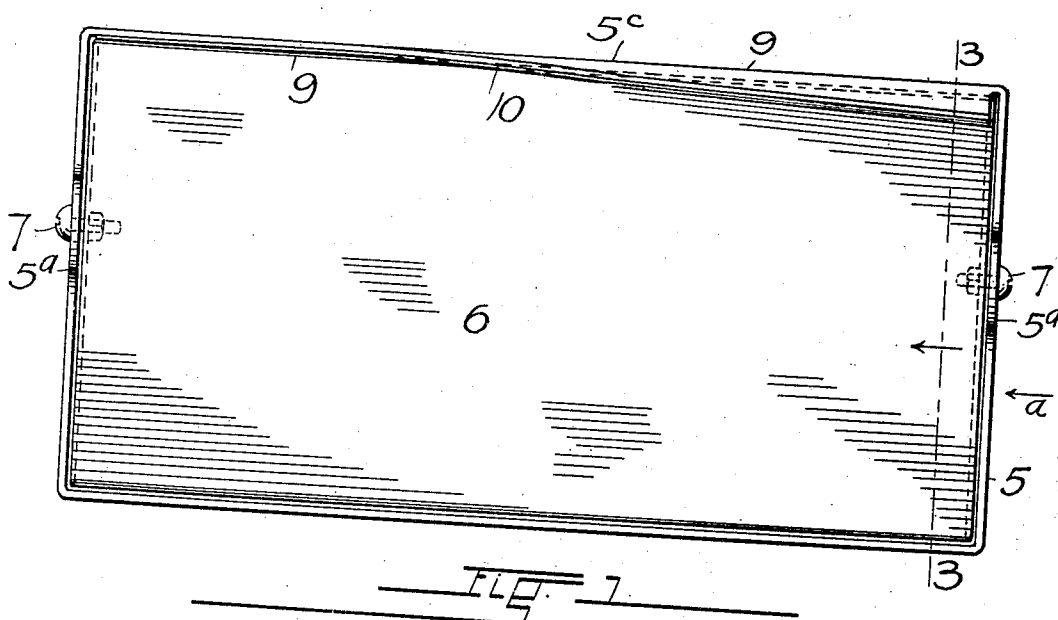


954,884.

O. A. ROED,
ENVELOP OPENER.
APPLICATION FILED JUNE 23, 1909.

Patented Apr. 12, 1910.



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ENVELOP-OPENER.

954,884.

Specification of Letters Patent.

Patented Apr. 12, 1910.

Application filed June 23, 1909. Serial No. 503,926.

To all whom it may concern:

Be it known that I, OLAF A. ROED, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Envelop-Openers, of which the following is a specification.

This invention relates to improvements in envelop openers and it has for its object the provision of a device of the class named in which simplicity of construction is combined with great practicability in use.

I attain this object by the mechanism illustrated in the accompanying drawings in the various views of which like parts are similarly designated and in which—

Figure 1, represents a plan view of the device, Fig. 2, an end view looking in the direction of the arrow *a* Fig. 1, and Fig. 3, a transverse section taken along the line 3—3 Fig. 1.

My improved envelop-opener, as illustrated in the drawings, comprises a flat base 5 preferably formed with upturned edges and provided at its opposite ends, with vertically extending, apertured lugs 5^a upon which the movable cutting member 6 is pivotally secured by means of bolts 7. Springs 8 whose normally divergent, terminal portions engage the opposite inner surfaces of the members 5 and 6, serve to resiliently maintain the moving member in its normal position with relation to the base upon which it is supported. The cutting member 6 consists of a flat plate provided with downwardly extending parallel sides 6^a through which the bolts 7 project, and it has at its foremost side a bent flange 6^b upon which a bevel edged cutting blade 9 is rigidly secured. The side of the base 5 corresponding with the flanged side of the member 6 has an upwardly projecting flange 5^c the upper edge of which is curved in correspondence with a heliciform bevel edged blade 10.

When the blade 9 is in its normally, lowermost position as shown in the drawings, the lower end of the blade 10 extends in superposed relation to the cutting edge thereof, the distance between the two blades being sufficiently large to permit the insertion of an envelop between them. The blade 10 curves from its lower end, heliciformly up and inwardly beyond the arc of travel of the cutting edge of the rectilinear blade 9, and the

flange 5^c on the member 5 having been made sufficiently thin to be elastic, a frictional contact of gradually increasing stress between the two cutting edges of the blades is assured during the movement of the blade 9 of the pivoted member 6.

In the operation of my improved device, the envelop to be opened is laid upon the upper surface of the member 6 with one of its edges projecting between the two blades and in engagement with the inner surface of the flange 5^c. The member 6 is now moved about its pivot by pressure applied upon its uppermost side and the doubled edge of the envelop is during said movement separated from its body portion by the shearing action of the cutting blade 9 in cooperation with the relatively stationary blade 10. The base 5 of the contrivance may if so desired, be fastened upon a stationary support such as a table or desk and with but little practice on the part of the operator, the device may be utilized to open envelops with great rapidity, the infallibility of the operation being assured by the helicoidal shape of the fixed cutting blade and its state of intersection with the arc of travel of the movable blade.

Having thus described my invention what I claim and desire to protect by Letters Patent is:—

1. An envelop-opener comprising a base member having an upturned resilient flange and a heliciform cutting blade at the upper edge thereof, and a normally inclined envelop supporting plate pivotally connected with said base member and having at one of its sides a rectilinear blade extending normally below the helical blade so as to shearingly pass the same during the movement of the plate of which it forms part.

2. An envelop-opener comprising a base member having an upturned resilient flange and a heliciform cutting blade at the upper edge thereof, and a normally inclined envelop-supporting plate, pivotally connected with said base member and having at one of its sides a rectilinear blade extending normally below the helical blade, which latter curves from a point without to a point within the arc through which the cutting edge of the rectilinear blade moves during the movement of the plate of which it forms part.

3. An envelop opener comprising a base member having an upturned resilient flange

and a heliciform cutting blade at the upper edge thereof, a normally inclined envelop supporting plate, pivotally connected with said base member and having at one of its sides a rectilinear blade extending normally below the helical blade so as to shearingly pass the same during the movement of the plate of which it forms part and springs ar-

ranged to resiliently maintain said plate in its normal position.

In testimony whereof I affix my signature in presence of two witnesses.

OLAF A. ROED.

Witnesses:

G. J. ROLLANDET,
M. L. GEARY.