G. W. HAZEL.

MANIFOLD COPYING DEVICE.

APPLICATION FILED JULY 10, 1911.

1,169,813.

Patented Feb. 1, 1916.

2 SHEETS—SHEET 1.

Fig. 1.

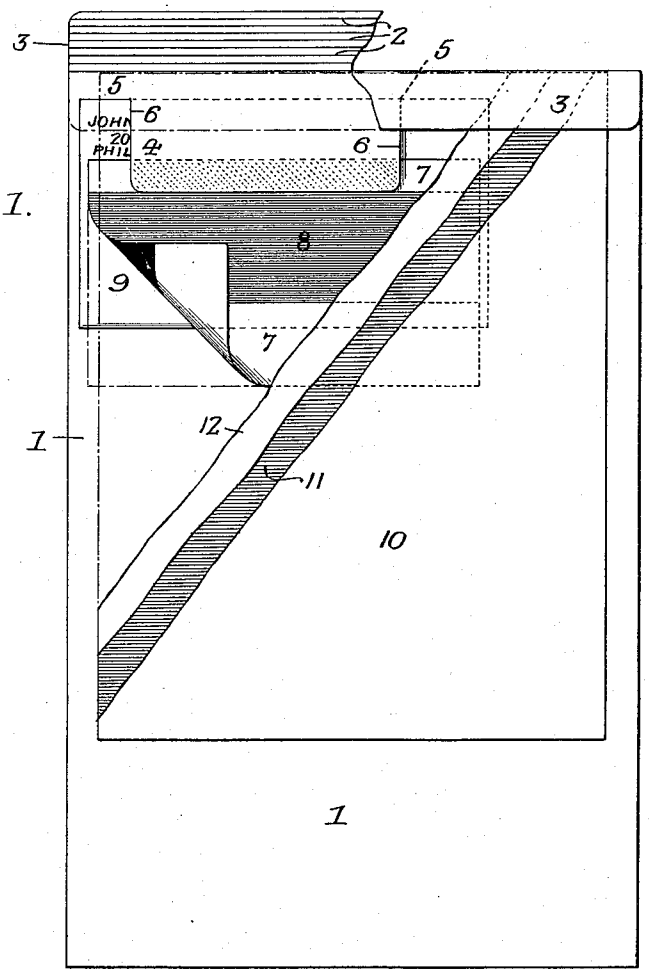


Fig. 2.

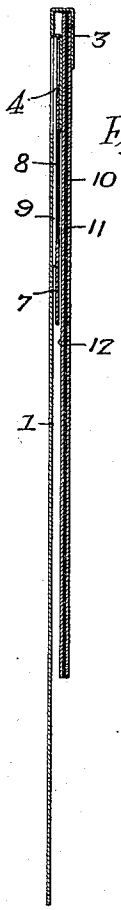


Fig. 5.

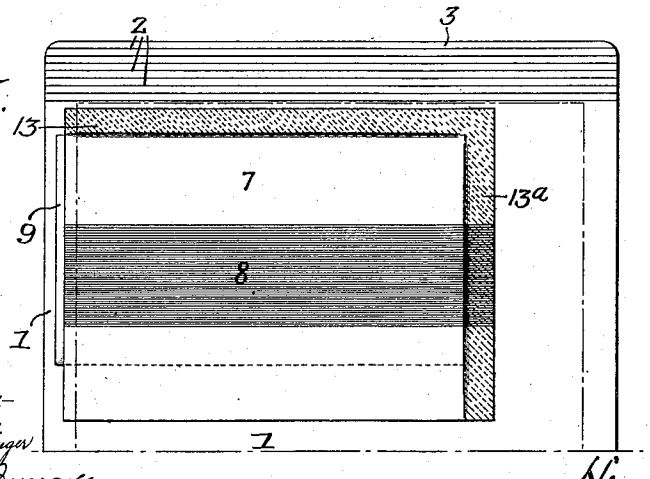
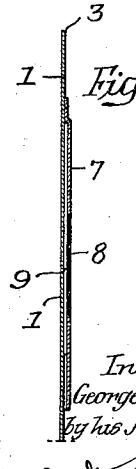


Fig. 7.



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APPLICATION FILED JULY 10, 1911.

1,169,813.

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2 SHEETS—SHEET 2.

Fig. 3.

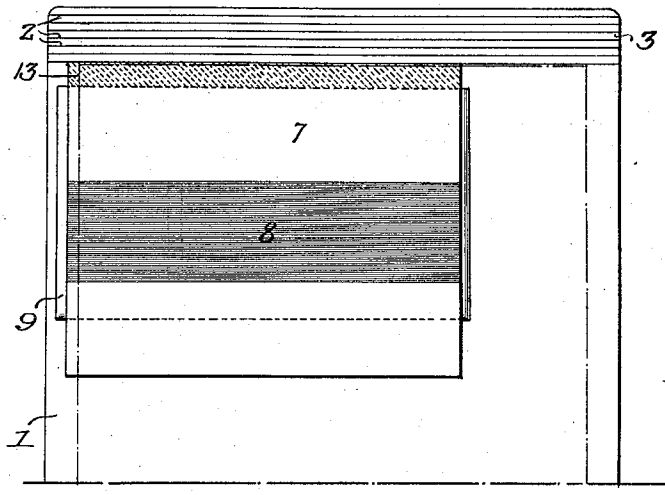


Fig. 4.

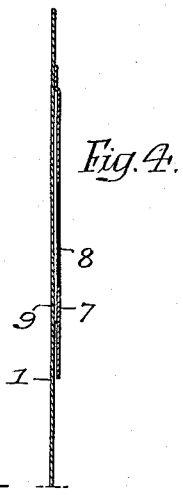


Fig. 6

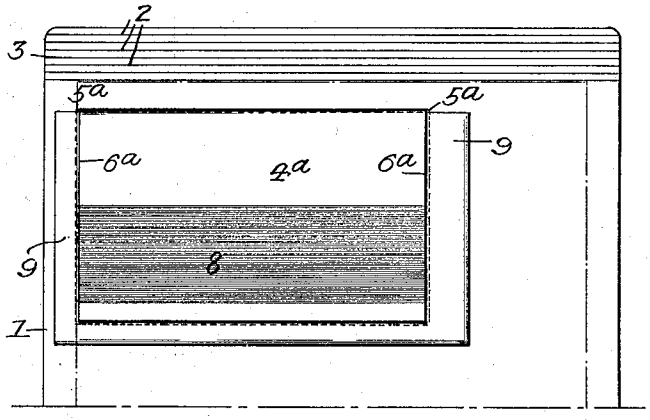
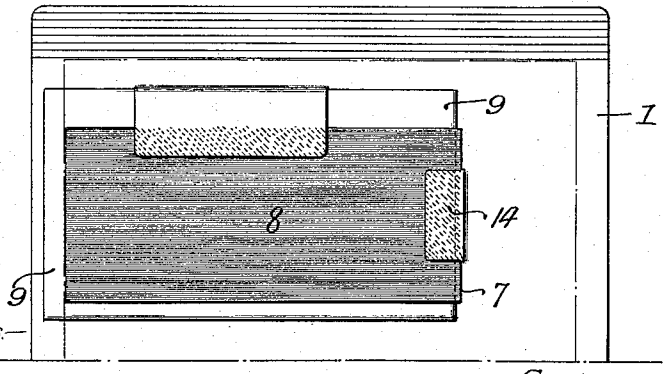


Fig. 8.



Fig. 9.



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UNITED STATES PATENT OFFICE.

GEORGE W. HAZEL, OF CAMDEN, NEW JERSEY, ASSIGNOR TO AMERICAN ADDRESSABAK COMPANY, A CORPORATION OF DELAWARE.

MANIFOLD-COPYING DEVICE.

1,169,813. Specification of Letters Patent. Patented Feb. 1, 1916.

Application filed July 10, 1911. Serial No. 637,681.

To all whom it may concern:

Be it known that I, GEORGE W. HAZEL, a citizen of the United States, and a resident of Camden, Camden county, New Jersey, have invented certain Improvements in Manifold-Copying Devices, of which the following is a specification.

My invention relates to that class of manifold copying devices which comprise a backing sheet with a section of transfer material, carbon paper for instance, associated therewith, and suitable guiding means whereby an envelop may be maintained in proper position with respect to a letter sheet while the latter with the envelop is passing through a typewriter, in order that the superscription comprising the addressee's name and residence as written on the letter sheet may be transferred to the envelop.

My invention comprises novel supporting means for the transfer sheet and guiding means for the envelop; the said transfer material being so disposed that it may afford a guide for the positioning of the superscription and transferring of the same, while the backing sheet may have its ends scored to permit folding at various points; depending upon the length of the letter sheets, so that the part of the same receiving the superscription may be properly spaced with respect to said transfer sheet. These and other features of my invention are more fully set forth hereinafter, reference being had to the accompanying drawings, in which:

Figure 1, is a plan view of a transfer sheet carrying backer embodying my invention in the position of use, parts of the elements associated therewith being broken away; Fig. 2, is a sectional view of the same; Fig. 3, is a view similar to Fig. 1, showing another embodiment of my invention; Fig. 4, is a sectional view of the structure shown in Fig. 3; Figs. 5 and 6, are plan views of backer sheets showing modified forms of transfer medium carrying elements associated therewith; Figs. 7 and 8, are sectional views of Figs. 5 and 6, respectively, and Fig. 9, illustrates a further modification within the scope of my invention.

One of the important features of my invention is the employment of the transfer strip element or the carrier therefor as the positioning means and guide for an envelop whereby the latter may be properly disposed with respect to the letter sheet in order that a superscription written upon the latter may be simultaneously transferred to the envelop at the proper point.

In the drawings, 1 represents the backing sheet, the upper end of which may be scored at 2 in horizontal, parallel lines; affording ready means for folding said upper end at a convenient point to provide a flap 3 for positioning the letter sheet. At a suitable point below the flap 3, the backing sheet may be cut to form a secondary or supplemental flap 4, care being taken to insure that the terminals 5 of the vertical cuts 6 forming said flap 4 are exactly opposite each other on a horizontal line and parallel to the scored lines 2 at the upper end of the backing sheet for forming the main flap 3 to position the letter sheet. The supplemental flap may have attached to it a sheet or section of relatively thin paper 7, with a carbonized strip or strip of carbon paper 8 formed thereon or secured thereto in any suitable manner. If desired, a carbon sheet may be secured to the flap 4 in lieu of the section 7 with the carbonized strip 8. The sheet or section 7, or the carbon sheet, is preferably spaced a short distance from the edge of the backing sheet and with its transfer material 8 so disposed with respect to the flap 4 that such material will be in proper position for engagement with an envelop guided by engagement with said supplemental flap 4 and in contact with the terminal ends 5 of the vertical cuts 6 forming the same. In the use of such structure, therefore, it is only necessary to place an envelop 9 beneath the transfer material and in engagement with the guiding means, and then to place over said transfer material the usual letter sheet 10 with the accompanying carbon or transfer sheet 11, and the copy sheet 12, or as many of the latter sheets as may be desired.

The end of the envelop is preferably placed a little to the left of the left hand edge of the sheet 7 with its transfer material 8, or the carbon sheet, and the edge of the letter sheet 10 with its associated sheets 11 and 12, is preferably placed with its left hand edge a little to the right of the left hand edge of said sheet 7 having the transfer material 8, thereby exposing a slight amount of the transfer material of said sheet 7 which will serve as a proper guide

to indicate the placing of the superscription. In the drawings, the left hand edge of the letter sheet is shown by the broken line.

In lieu of the supplemental flap 4 carrying the sheet 7 with the transfer material 8, the latter sheet, or a carbon sheet, may be secured by pasting or other suitable means to the backing sheet, care being taken to insure that the pasted portion at the upper part of the sheet defines a clean guide line parallel with the scored lines 2 at the top of the sheet.

In Figs. 3 and 4, a sheet 7 carrying the body of transfer material 8 is shown as attached to the backing sheet at 13 by paste or glue, or otherwise. In Figs. 5 and 7, the sheet 7 is attached both at its upper edge, as at 13, and at its right hand marginal edge, as at 13^a, by paste or glue, or otherwise. In the latter instance the securing of the right hand end forms an end stop for the envelop. A piece of ordinary carbon paper may be used in lieu of the sheet 7 with the carbon strip 8. It will be understood, of course, that the sheet 7 is transparent so that the carbon transfer material 8 will show through the same. In some other instances it may be desirable to place the transfer material 8 directly on the flap cut from the backing sheet, as shown at 4^a in Figs. 6 and 8. In such instance this flap may be longer than the flap 4 shown in the other views. The terminal ends 5^a of the vertical cuts 6^a forming such flap 4^a provide the desired guiding means for the envelop.

If desired, a lateral guide or stop for the envelop may be provided in the form of a flap as indicated at 14 in Fig. 9; the sheet 7 carrying the carbon strip 8, or the sheet of carbon which may be used in lieu thereof, being preferably attached to this flap 14, in the manner indicated. The supplemental transfer sheet for effecting the simultaneous writing of an address upon an envelop is adjacent that side or surface of the backing sheet which may be termed the front, and hence does not present itself as an obstacle to proper movement of said backing sheet around the platen; the surface or side of the backing sheet adjacent the platen being substantially or entirely smooth.

It will be understood, of course, that many other modifications may be made as coming within the scope of my invention, and the claims hereinafter set forth are intended to cover not only what I have described and illustrated in the accompanying drawings, but any obvious modification falling within the terms of the language employed.

I claim:

1. A backing element for use in manifold copying and serving to support and position a letter sheet, carbon sheet and a copy-receiving sheet, said backing element having a flap portion forming an envelop positioning means and provided with transfer material so disposed as to transfer an impression upon an envelop positioned thereunder.

2. A backing element for use in manifold copying and serving to support and position a letter sheet carbon sheet and copy-receiving sheet, said backing element having a flap portion forming an envelop positioning means, and transfer material carried by said flap portion and disposed for the transfer of an impression upon an envelop positioned thereunder.

3. A backing element for use in manifold copying and serving to position and support a letter sheet carbon sheet and copy-receiving sheet, said backing element having a flap portion forming an envelop positioning means, and a sheet attached to the free edge of said flap portion and forming an extension thereof and having transfer material thereon so disposed as to transfer an impression upon an envelop positioned thereunder.

4. A backing element for use in manifold copying and serving to support and position a letter sheet carbon sheet and copy-receiving sheet, said backing element having a cut-out flap portion forming an envelop positioning means, and a carbon transfer sheet carried by said flap portion and positioned so that an address written upon the letter sheet may be simultaneously transferred to an envelop disposed beneath the carbon transfer sheet.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

GEORGE W. HAZEL.

Witnesses:

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WM. A. BARR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."