

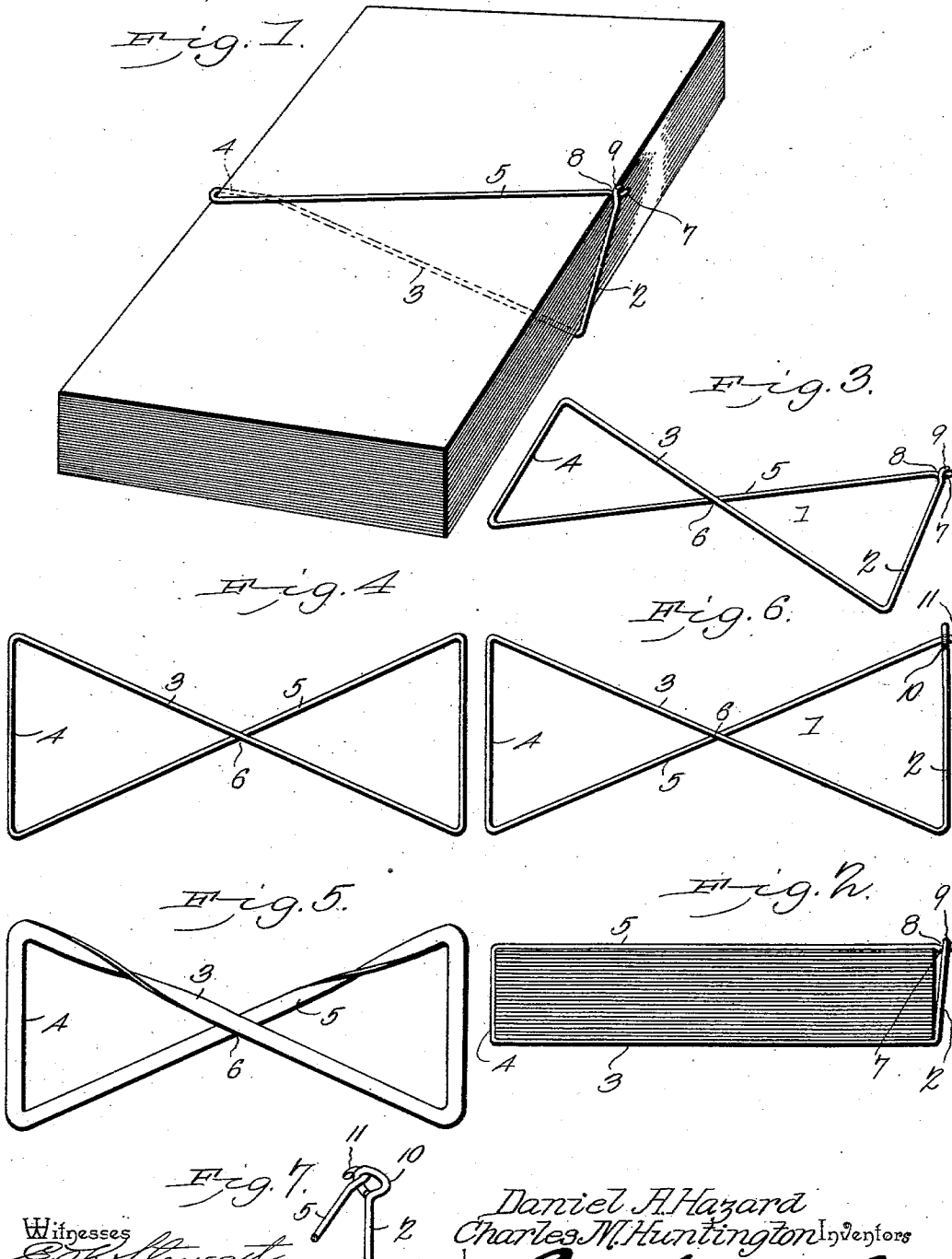
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PAPER CLIP.

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NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

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PAPER-CLIP.

SPECIFICATION forming part of Letters Patent No. 743,641, dated November 10, 1903.

Application filed May 11, 1903. Serial No. 156,893. (No model.)

To all whom it may concern:

Be it known that we, DANIEL A. HAZARD and CHARLES M. HUNTINGTON, citizens of the United States, residing at East Randolph, in the county of Cattaraugus and State of New York, have invented a new and useful Paper-Clip, of which the following is a specification.

This invention relates to an improved paper clip or clasp especially designed for holding bundles of letters, bills, and other papers, and has for its object to provide a simple, inexpensive, and efficient device of this character which will readily adapt itself to packages of different thicknesses and by means of which the papers are securely and compactly held together without the use of twine, bands, and similar auxiliary fastening devices.

A further object of the invention is to provide a clip or clasp formed of a single piece of material bent in such a manner as to form a pair of spring clamping-arms between which the letters or other papers are introduced, the wire or other material of which the clip is formed being provided with interlocking end portions, so as to permit the clip to be quickly and readily applied to or removed from the package or bundle.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a perspective view of a package of papers, showing our improved clip applied thereto. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a perspective view showing the clip detached. Figs. 4, 5, and 6 are all modified forms of the invention. Fig. 7 is a detail perspective view of the form of fastening shown in Fig. 6.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates the clip or clasp, preferably

formed of a continuous piece of sheet metal or wire bent into the form of a crossed loop, as shown. In making the clip one end of the wire forms an end bar 2 and is thence bent at an angle to said bar to form a diagonally-disposed side bar 3, thence in parallel relation with the bar 2 to form a second end bar 4, and thence at an angle to the second end bar to form a second diagonally-disposed side bar 5, the two side bars of the loop crossing each other, as shown at 6. The end of the diagonally-disposed side bar 5 is provided with an offset 7, defining a groove or recess 8, adapted to engage the end bar 2, the end of said bar being bent upwardly and outwardly, as shown at 9, forming a guard and preventing accidental lateral displacement of the side bar when the clip is in position on a bundle or package.

In operation when it is desired to clamp several letters or papers together the hooked end of the side bar 5 is disengaged from the bar 2 and the letters or other papers introduced between the diagonally-disposed bars 3 and 5, after which the end of the bar 5 is forced upwardly over the guard 9, the recess 8 engaging the end of the side bar 2, thereby locking the ends of the clamp together and preventing the papers from becoming loose or disarranged. The wire or sheet metal of which the clip is formed possesses a sufficient degree of resiliency to cause the side bars 3 and 5 to normally lie in contact with each other, so that when letters or other papers are placed between said bars the inward spring tendency or torsional strain of the end bars on the package will securely hold the papers together.

In Fig. 4 we have shown the clip formed of two integral loops, the ends of the wire being soldered or otherwise permanently connected, while in Fig. 5 the clip is shown stamped from a single piece of sheet metal and twisted into the desired shape, so as to cause the bars 3 and 5 to lie flat at the point of intersection. In Figs. 6 and 7 we have illustrated a further modification, one end of the wire forming the crossed loop being bent to form an eye 10 and the other end thereof a hook 11, adapted to engage said eye, as shown.

The clips may be made in different sizes

and by reason of their peculiar shape will readily adapt themselves to packages of different thicknesses.

Having thus described the invention, what we claim, and desire to secure by Letters Patent, is—

1. A paper-clip comprising a single closed loop having crossed side bars.
2. A paper-clip comprising a single loop having its shorter end bars in parallel relation and its longer side bars crossing each other.
3. A paper-clip formed of a single piece of wire bent to form a single crossed loop and provided with interengaging ends.
4. A paper-clip comprising a pair of diagonally-disposed intersecting side bars and parallel end bars, and means for interlocking the same to form a closed loop.
5. A paper-clip formed of a single piece of material bent to form a pair of diagonally-disposed intersecting spring clamping-bars

provided with oppositely-disposed angular extensions said bars being permanently connected to one of the angular extensions, there being a detachable connection between the opposite extension and one of the spring clamping-bars.

6. A paper-clip formed of a single piece of spring-wire comprising a pair of diagonally-disposed clamping-bars provided with oppositely-disposed angular extensions, one of said extensions being provided with an up-turned end portion adapted to engage one of the clamping-bars.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

DANIEL A. HAZARD.
CHAS. M. HUNTINGTON.

Witnesses:

L. A. HAZARD,
W. H. HAZARD.