

1,429,182.

Patented Sept. 12, 1922.

Fig. 1,

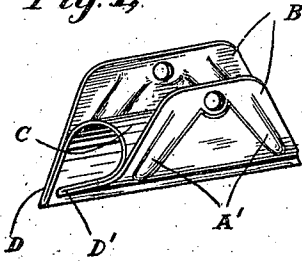


Fig. 2,

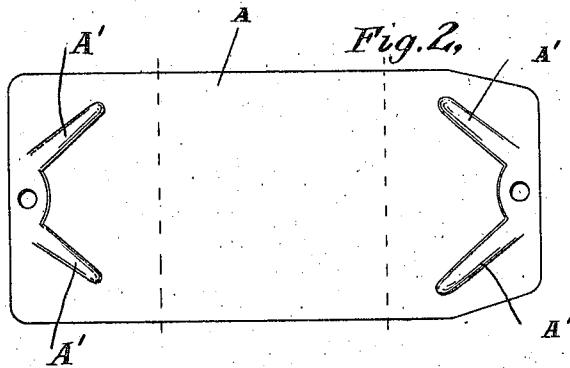


Fig. 3,

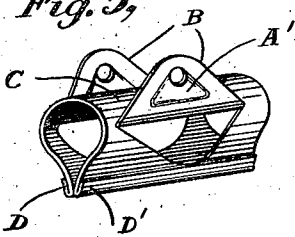


Fig. 4,

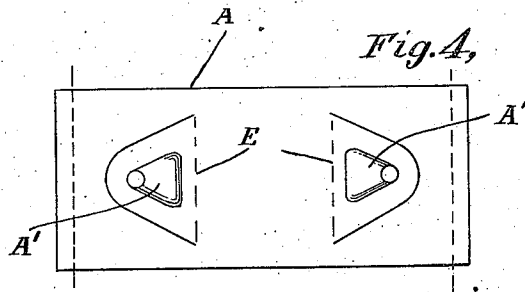


Fig. 5,

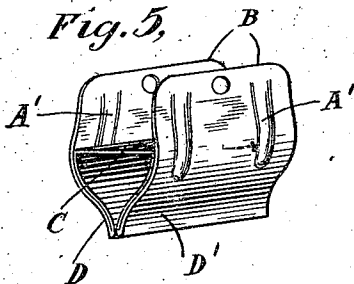


Fig. 6,

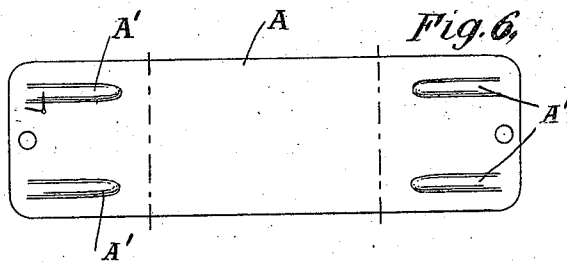


Fig. 7,

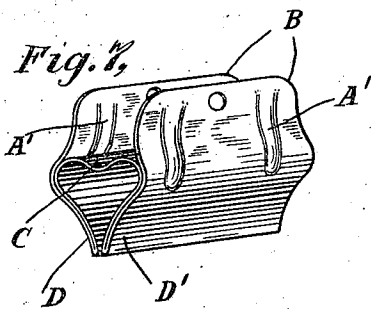
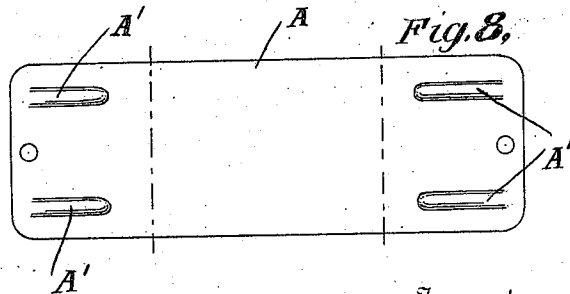


Fig. 8,



Inventor
Frank M. Ashley

UNITED STATES PATENT OFFICE.

FRANK M. ASHLEY, OF NEW YORK, N. Y.

BINDING CLIP.

Application filed January 4, 1921. Serial No. 434,970.

To all whom it may concern:

Be it known that FRANK M. ASHLEY, a citizen of the United States, and resident of the city of New York, in the county of Kings and State of New York, has invented certain new and useful Improvements in Binding Clips, of which the following is a specification.

My invention relates to binding clips. The object of my invention is to provide a binding clip formed in a single piece from sheet metal or other suitable material that can be stamped from a sheet and bent or molded into form.

A further object is to provide a clip having its jaws made sufficiently stiff to prevent their bending from a relatively parallel position.

Referring to the drawings which form a part of this specification,

Fig. 1 is a perspective view of a clip embodying my invention and showing a form in which one side presents a flat plane surface with the spring formed integral and lever extending over the spring of the clip;

Fig. 2 is a plan view of the blank as first formed from the sheet material;

Fig. 3 is a perspective view of a form in which the least amount of metal is used and showing the levers formed by punching a portion of the metal from the body of the clip and bending said portions to provide the lever members;

Fig. 4 illustrates the blank which is bent to form the clip shown in Fig. 3;

Figs. 5 and 7 show other forms in which the form of the spring which comprises the fulcrum for the levers is slightly changed from that shown in Figs. 1 and 3, the spring in Fig. 5 having a straight back and that in Fig. 7 a back formed with a reverse curve.

Figs. 6 and 8 show the respective blanks from which clips 5 and 7 are made.

For the purpose of description, I will assume that the clips are made of thin metal having resilient qualities to permit the metal to act as a spring by means of which

the jaws are forced together to bind or hold articles placed between them.

A indicates a sheet of metal formed with embossed ribs A'—A' etc., which serve to stiffen the lever arms B—B of the clip. C indicates the back or spring portion of the clip which may be curved in form as shown in Figures 1 and 2 or straight as shown in Figure 3.

The respective blanks are formed into the clips by bending them while in an annealed or soft state and then tempering them to a spring temper. It will be observed that the jaws D and D' are double the thickness of the single sheet by reason of the metal being bent back in a fold which reinforces the stiffness of the jaws. The lever portions B—B are formed either as shown in Figures 1-5 and 7 or by punching out a part of the metal from the body as shown in Fig. 3, and bending said parts on the lines E—E as indicated in Fig. 4 to form the lever elements. By extending the embossed or ribbed construction A' below the fulcrum, the levers are rendered sufficiently stiff to prevent undue bending when the jaws are forced apart thereby against the resistance of the spring.

It will be observed that the clip is made complete in a single integral construction.

It is evident that many changes in form may be provided without departing from the invention disclosed.

Having thus described my invention, I claim as new:

A clip formed from a single sheet of spring material comprising oppositely disposed jaw members and levers by which said jaws may be opened, said levers having embossed ribs to stiffen the same, said ribs extending below the fulcrum of the levers.

Signed at New York city, in the county of New York and State of New York, this 30th day of December, A. D. 1920.

FRANK M. ASHLEY.