A. C. HAFELY.

BINDER.

APPLICATION FILED APR. 14, 1909.

941,142.

Patented Nov. 23, 1909.

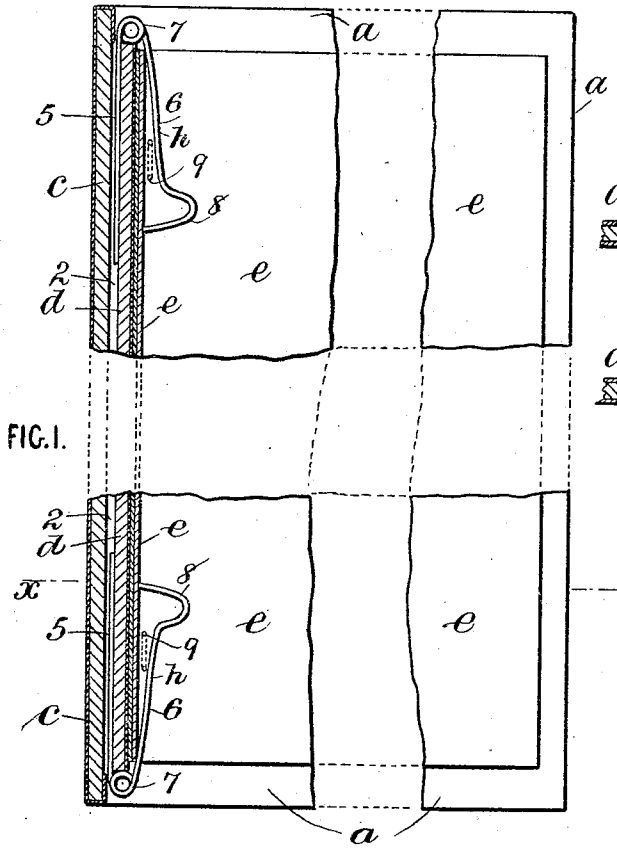


FIG. 1.

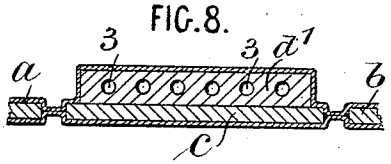


FIG. 8.

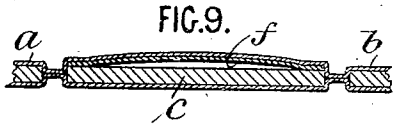


FIG. 9.

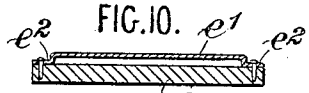


FIG. 10.

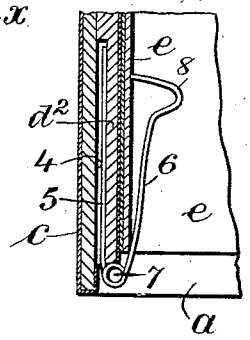
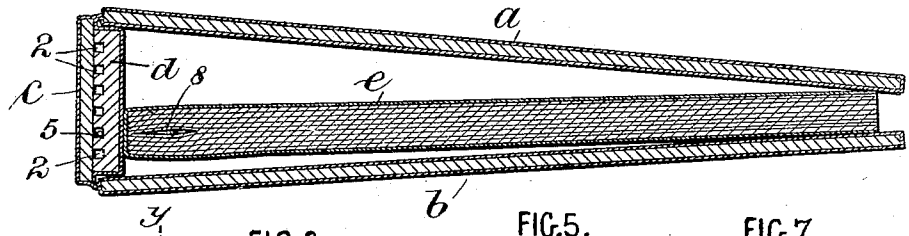


FIG. 6.

FIG. 2.



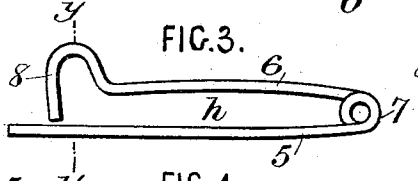


FIG. 3.

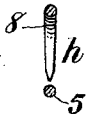


FIG. 5.

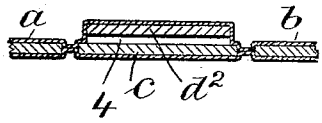


FIG. 7.

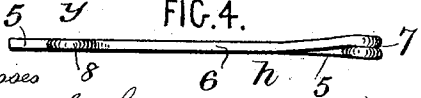


FIG. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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BINDER.

941,142. Specification of Letters Patent. Patented Nov. 23, 1909.

Application filed April 14, 1909. Serial No. 489,858.

To all whom it may concern:

Be it known that I, ALFRED C. HAFELY, a citizen of the United States, residing in the borough of Brooklyn, in the county of Kings, city and State of New York, have invented an Improvement in Binders, of which the following is a specification.

My invention relates to a binder for pamphlets, magazines, directories and other publications similarly bound, with the objects of holding such publications securely to the binder while in use and for ready removal or separation for interchanging publications as desired.

In carrying out my invention and in combination with the covers and back, I employ a device connected to the back in the nature of a hold-fast and devices for simultaneous connection therewith and with the back of a magazine or other similar publication between the leaves thereof. I employ a strip of suitable material running lengthwise of the back and secured thereto and preferably to the inner surface thereof and provided with receiving means for one end of one or more spring wire clips with prong ends, which latter engage the publication between the leaves thereof so as to hold the same removably to the back of and between the covers, all of which is hereinafter more particularly set forth.

In the drawing Figure 1 is a section longitudinally through the back and elevation of part of a publication and the covers of the binder. Fig. 2 is a cross section at the dotted line x, x, of Fig. 1. Fig. 3 is a side elevation, Fig. 4 a plan or edge view and Fig. 5 a cross section at the dotted line y, y, of Fig. 3, representing the form of clip device preferably employed by me in the device of my invention. Fig. 6 is a partial longitudinal section through the back and elevation of part of a publication and part of one of the covers showing a form of my invention. Fig. 7 is a cross section of the form shown in Fig. 6 without the clip, and Figs. 8, 9 and 10 are cross-sectional views representing forms of my invention hereinafter more fully described.

The binder of my invention comprises the covers a b and back c, said parts being formed of card-board or similar suitable material surfaced for a finish with paper, leather, imitation of leather or other suitable material.

In Figs. 1 and 2, d represents a strip of wood or other suitable material provided with a series of longitudinal grooves 2. e represents the publication of whatever form this may be,—pamphlet, magazine, directory or other volume similarly bound; the binder of my invention being adapted particularly as a temporary binder, and in which one or more publications of such character may be bound and retained for any convenient length of time.

Figs. 3, 4 and 5 represent the spring wire clip which I prefer to employ as a device for simultaneously connecting the publication at the back thereof with the back of the binder. This spring wire clip h is preferably composed of substantially parallel members 5 6 connected by a bend or eye 7 and provided at the free end of the member 6 with a hook 8, the end of which is preferably tapering and sharpened, or brought to a point.

9 in Fig. 1 represents the wire staples for binding together the signatures of the publication such as are usually employed for this purpose.

From Fig. 2 it will be noticed that the back c and the strip d between the back edges of the covers are considerably wider than the publication or magazine e connected thereto, but I do not in any respect limit myself to the width of the back, or to the fact that the back may be made as shown in this figure, wide enough to receive several publications (similar or different) between the covers a b.

In connecting the publication to the back the same is preferably opened at the center, and the spring clip h is as shown in Fig. 1, brought to position by passing the member 5 into one of the grooves 2 and the member 6 with its hook 8 between the leaves at about the center of the publication or magazine, the same being slipped along to place until the bend 7 comes against or adjacent to the end of the strip d when the clip is released and the pointed end of the hook 8 bears down between the leaves to the back of the publication, and the spring character of the clip employed at the opposite ends of the strip d and back of the publication or magazine provides sufficient friction to keep its place and not accidentally separate from the back of the binder, and it is sufficiently strong to securely hold the magazine against the back of the binder in position.

Whenever it is necessary to remove the publication to interchange the same with

other similar publications, it is only necessary to grasp the hook 8 and raise the same against the spring action of the bend or eye 7 and slip the same backward out of position. It is quite apparent that as many publications can be held between the covers against the back strip d as the width of the strip and the thickness of the publications will permit; there being usually provided a sufficient number of grooves or other means to receive the members 5 of the spring wire clips.

In the form of my invention shown in Figs. 6 and 7, instead of the grooves 2 the entire end of the strip d^2 may be undercut to provide the opening 4 to receive the members 5 of the clips; it being possible with this form of my invention for the clips with the introduction into the binder of the publications to move along transversely of the back and their position be accommodated according to the number and thickness of the publications by the slipping action of the members 5 against the under surface of the strip d^2.

In the forms of my invention shown in Figs. 8, 9 and 10,—I have shown in Fig. 8 holes 3 in the strip d^1 as the equivalent of the grooves 2. In Fig. 9 I have shown a strip of suitable material f secured at its opposite side edges to the opposite edges of the back c so as to provide a space between the under surface of this strip f of leather or other suitable material to receive the members 5 of the spring wire clips. In the form shown in Fig. 10, e^1 represents a strip of metal or other suitable material bent downward and flanged at its opposite edges and secured by nails or otherwise to the back c, thus leaving a space between the juxtaposed under surface of the said strip e^1 and the inner surface of the cover c to receive in like manner the members 5 of the spring wire clips.

As shown in Figs. 1, 2 and 6 to 9 inclusive, the inner surfaces of the strips d d^1 d^2 and f are preferably surfaced for a finish with the same material as the covers and back.

I am aware that it is not new to provide temporary binders to hold magazines, pamphlets, etc., and in connection therewith to provide in the back of the binders spring wire clips to simultaneously engage the back of the binder and the magazine between the leaves. In these devices either the clips were liable to be readily disconnected from the back of the binder or magazine, or both; or where the spring clips were secured to the binder back they did not hold between the leaves and it was necessary to bend or spring the back of the magazine to connect the same to, or disconnect the same from the binder.

In my invention the clips hold to the magazine between the leaves thereof and can only be removed by an opening or spring effort, and because they hold to the magazine it follows that the mechanism cannot accidentally get away from the hold of the clips to the binder.

I claim as my invention:

1. In a binder the combination with the covers and back, of a strip of suitable material having interior end apertures and running lengthwise of the back and secured to the inner surface thereof in the capacity of a holdfast, and spring wire clips with prong ends which bear substantially at right angles to the back of the binder and adapted for simultaneous connection therewith and with the back of a magazine or similar publication between the leaves thereof.

2. The combination with the covers and back of a binder and a strip of suitable material running lengthwise of the back and secured to the inner surface thereof and having interior end apertures, of spring wire clips each having substantially parallel parts, a bend connecting the same and a hook-shaped part at one free end with a prong or point adapted to be passed between the leaves of a magazine or pamphlet for engagement therewith of the prong, which bears substantially at right angles to the back of the binder, and the opposite parallel part adapted to be simultaneously connected with said strip at an aperture thereof.

3. In a binder, the combination with the covers and back, of a stiffening strip of suitable material formed cellular at the respective ends and running lengthwise of the back and secured to the inner surface thereof in the capacity of a hold-fast, and spring wire clips each comprising substantially parallel members 5 6, a connecting bend 7, and hook-shaped part 8 with a pronged end which bears substantially at right angles to the back of the binder, the same being adapted for simultaneous connection with the back of a magazine or similar publication between the leaves thereof and with the cellular ends of the stiffening strip.

4. The combination with a support for a magazine or similar publication, of a spring wire clip having substantially parallel parts connected by a bend, the one adapted to engage the support and the other the magazine or publication by passing in between the leaves, and the said latter part having a hook-shaped part at the free end with a prong or point to engage the bound edge of the magazine bearing substantially at right angles to the back of the binder and so becoming temporarily connected thereto.

Signed by me this 8th day of April 1909.

A. C. HAFELY.

Witnesses:

GEO. T. PINCKNEY,

E. ZACHARIASEN.