

(No Model.)

H. J. HOTCHKISS.
TEMPORARY BINDER.

No. 575,238.

Patented Jan. 12, 1897.

Fig. 1.

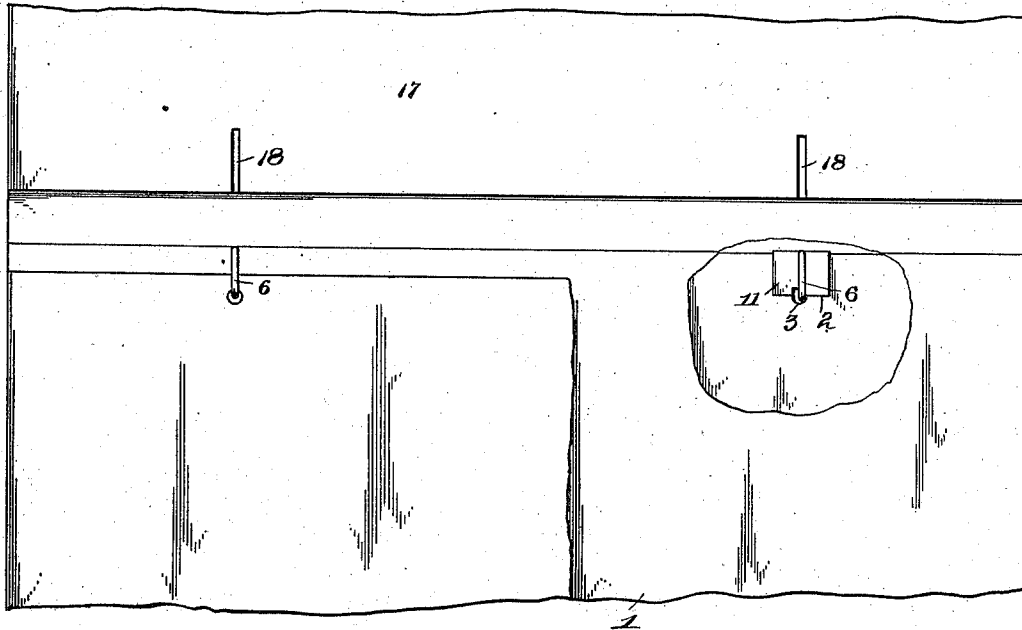


Fig. 2.

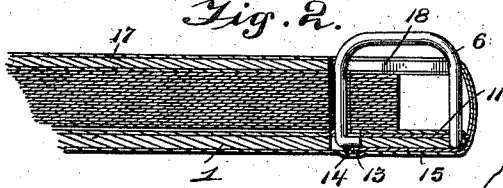


Fig. 7

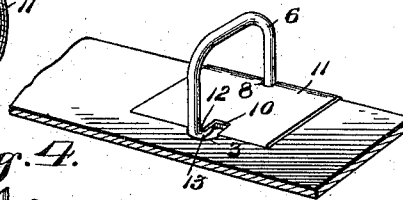


Fig. 3.

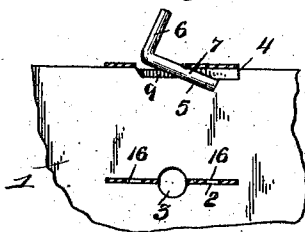


Fig. 4.

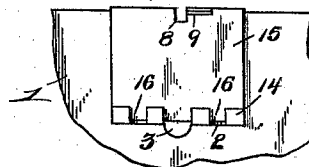
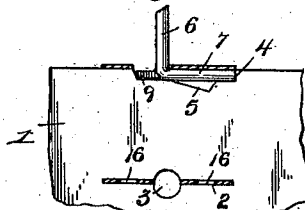


Fig. 5

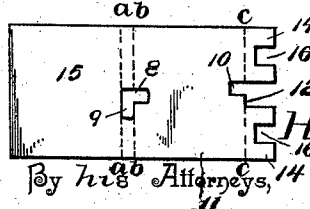


Fig. 6.

Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

HOMER JAMES HOTCHKISS, OF ITHACA, NEW YORK.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 575,238, dated January 12, 1897.

Application filed February 28, 1896. Serial No. 581,139. (No model.)

To all whom it may concern:

Be it known that I, HOMER JAMES HOTCHKISS, a citizen of the United States, residing at Ithaca, in the county of Tompkins and State of New York, have invented a new and useful Temporary Binder, of which the following is a specification.

This invention aims to provide an improved means for removably attaching leaves, papers, cards, &c., to a support or back for future use, and is especially designed for students and persons engaged in taking notes, as the back or support, when in the form of a cover, can be opened out flat, thereby enabling both sides of the leaves to be written upon, and the leaves can be readily detached for transcribing, filing away, or for any required purpose.

Other objects and advantages will appear and suggest themselves as the nature of the invention is better understood; and to this end reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a detail plan view showing the invention applied to a cover, parts being broken away. Fig. 2 is a sectional detail thereof. Fig. 3 is a detail view showing the manner of removably attaching a file-hook to its support. Fig. 4 is a view similar to Fig. 3, showing the file-hook in proper position. Fig. 5 is a detail view of the blank from which a clip is formed to secure a file-hook to its support. Fig. 6 is a detail view of the reverse side of the support. Fig. 7 is a detail perspective view of the invention.

Corresponding and like parts are referred to in the following description and designated in all the figures of the accompanying drawings by the same reference-characters.

The support 1 may be part of a cover such as usually provided for files and temporary binders of the book form, or it may be a backing as generally employed for writing-tablets and like purposes. A slit 2 is cut in the sup-

port a short distance from its edge and is intersected between its ends by an opening 3. A notch 4 is formed in the edge of the support directly opposite an end portion of the slit 2 and communicates with an inclined notch 5, which is deepest at the end adjacent to the straight notch 4 for the purpose of facilitating the removal of the file-hook 6 when it is required to substitute the same by a file-hook of larger or smaller dimensions or by a new one in the event of the hook becoming disabled. The straight notch 4 is of a depth corresponding to the gage of the wire from which the file-hook is formed, so as to admit of the pintle 7 thereof fitting snugly in the space provided by the said notch 4.

The clip for securing the file-hook to the support is formed from a blank of sheet metal having substantially the outline shown in Fig. 5, which is of rectangular shape and has an L-slot about midway of its ends comprising the parts 8 and 9, and a notch 10 in one end a little to one side of a straight line extending parallel with the sides of the blank and passing through the center of the short member 8 of the said L-slot. This blank is folded between its ends on the dotted lines *a a* and *b b*, which correspond to the thickness of the support and the width of the longer member 9 of the aforesaid L-slot, thereby throwing the said member 9 of the slot at the outer edge of the support and clip and below the plane of the upper plate 11 of the said clip. The notch 10 is widened at its outer end, forming a shoulder 12, which comes about opposite the slot 8, so as to be engaged by the hooked end 13 of the file-hook 6, and the end portion of the top plate 11 is adapted to be bent on the dotted line *c c*, which corresponds with the position of the shoulder 12 to form wings or flaps 14, which pass through the end portions of the slit 2 upon opposite sides of the opening 3 and which have their projecting end portions clenched upon the end of the lower plate 15, thereby securing the clip to the support. The wings or flaps 14 may have their outer ends straight, but to facilitate the clenching of the projecting portions notches 16 are formed in their outer edges.

The file-hook 6 is constructed of a single length of stout and stiff wire, which is bent

into an arch or U form, one end portion being bent laterally at right angles to the plane of the hook to form the pintle 7 and the opposite end being bent inward to provide the hook 13, which latter springs under the shoulder 12 and secures the free end of the hook 6 after the papers, cards, &c., are engaged therewith. The pintle 7 fits snugly in the bight or fold of the clip and enters the space formed by the notches 4 and 5 and enables the free end of the hook 6 to be turned back when it is required to apply or remove sheets of paper, files, and other matter engaged therewith. Suppose it be required to disconnect a file-hook from its support. Its hooked end is disengaged from the shoulder 12 and is turned back a sufficient distance to enable the end of the pintle to clear the slot 8, when the hook can be moved in the slot 9 until the inner end of the pintle clears the notch 4, when the hook can be tilted and withdrawn through the slot 9, as clearly shown in Fig. 3. The reverse of this operation enables a new file-hook to be engaged with the clip, thereby making provision for substituting and placing in position a hook of proper size. Usually a pair of file-hooks will be attached to each support, and the clips and file-hooks, which will be constructed in rights and lefts, will be applied to the support in such a manner that the file-hooks can be disengaged from the clips by a movement toward one another. Hence when the invention is in service and the leaves, cards, receipts, &c., are strung upon the file-hooks the latter cannot become accidentally disengaged from the clips, since the movement necessary to remove them will be compensated by each.

When the invention is applied to a binder of the book form, the cover 17 will have slots 18 corresponding in position to the closed ends of the file-hooks to receive said ends and thereby enable the parts of the cover to come closely together.

The opening 3 provides for the entrance of the bent end 13 of the file-hook 6 into the space formed between the end portions of the plates 11 and 15, and the end portion of the plate 15, extending across the notch 10, limits the inward movement of the said bent end 13, so that the latter cannot pass entirely through the opening 3 and will make proper engagement with the shoulder 12. By having the notches 8 and 10 out of alinement it is necessary to spring the bent end of the file-hook 6 to one side when it is desired to enter the same into the notch 10. Hence when the pressure or force is removed the bent end of the file-hook will resume its normal position and spring under the shoulder 12 and thereby become locked. To release the bent end 13, it is necessary to press it toward the notch 10, so as to clear the shoulder 12, when by an upward movement the file-hook can be turned back, thereby enabling papers or other matter to be applied thereto or removed therefrom.

It is not absolutely necessary to provide the inclined notch 5 and the transverse slot 9, as the invention will operate in precisely the same manner as herein described by dispensing with these parts, but it is preferred to employ these features, since they admit of the file-hook being readily removed and placed in position. Hence it is possible to ship the supports in quantity, having the clips attached in compact form, and the file-hooks can be placed in a separate package and readily applied to the supports either by the merchant or the person using the device. The leaves, papers, receipts, cards, &c., to be applied to the binder have openings punched near their edges to receive the free ends of the file-hooks, which latter, after being passed through the said openings, are engaged with the shoulder 12 in the manner set forth, thereby completing the binding.

Having thus described the invention, what is claimed as new is—

1. In a temporary binder, the combination with a support having an opening, and a clip secured to the support and having a fold and a portion extending over a part of the said opening, of an arched file-hook having a lateral pintle at one end fitted in the fold of the clip and having its opposite end bent and adapted to be passed into the aforesaid opening and automatically engage with the projecting portion of the clip, substantially in the manner and for the purpose specified.

2. In a temporary binder, the combination with a support or backing, of a clip formed of sheet metal having a slot between its ends and a notch in one of the said ends, and a file-hook having a pintle thrust through the said slot of the clip and operating in the fold of the latter, and having its free end bent to be passed through the said notch, substantially as set forth for the purpose described.

3. In combination, a support or backing having a slit a short distance from its edge and having an opening intersecting with the slit, a clip constructed from a blank having a slot between its ends and a notch in one end, said blank being folded over the edge of the support and having an end portion passed through the said slit and clenched upon the opposite end portion, and a file-hook journaled in the fold or bight of the blank and having its free end bent and adapted to be passed through the said notch and engaged with the clip to one side of the notch, substantially as set forth.

4. In combination, a support or backing, a clip secured thereto and having openings and 10 out of alinement, and a file-hook journaled to the clip and operating in the opening 8, and having its free end bent and adapted to be passed through the opening 10 and engage with the clip to one side of the said opening, substantially as set forth.

5. In combination, a support having a slit a short distance from its edge, an opening intersecting with the slit, and having a notch

or depression in its outer edge opposite an end portion of the slit, a clip having a slot between its ends and folded over the edge portion of the support, and having a notch in one end, and having an end portion passed through the said slit and clenched upon the opposite end portion, the said notch in the end of the clip registering with the opening intersecting with the slit, and a file-hook having a pintle fitted in the space provided by notching the support, and having its free end bent and adapted to engage with a portion of the clip adjacent to the notch therein, substantially as set forth.

6. The combination with a support having a straight and an inclined notch in its edge, and a clip fitted to the edge of the support and inclosing the said notches, of a file-hook having a pintle at one end to be detachably connected with the clip and having its free

end constructed to engage with the clip, substantially as and for the purpose set forth.

7. In combination, a support or backing having a straight and an inclined notch in its edge, a clip fitted to the edge portion of the support and having a substantially L-shaped slot adjacent to the edge portion of the support, and a file-hook having a pintle to be detachably connected with the clip by being removably inserted in the slot thereof, substantially in the manner and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HOMER JAMES HOTCHKISS.

Witnesses:

CHARLES P. MATTHEWS,
F. E. MILLIS.