G. H. JENKINS.

BINDER.

APPLICATION FILED MAY 11, 1914.

1,184,099.

Patented May 23, 1916.

Fig. 1.

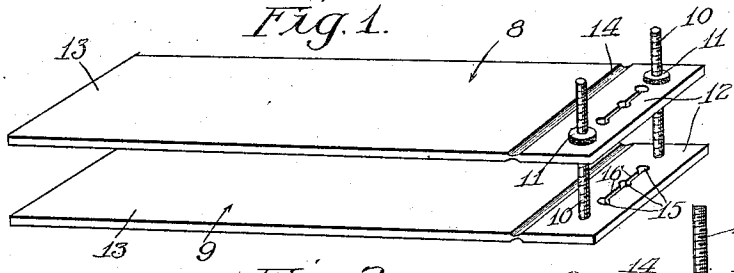


Fig. 2.

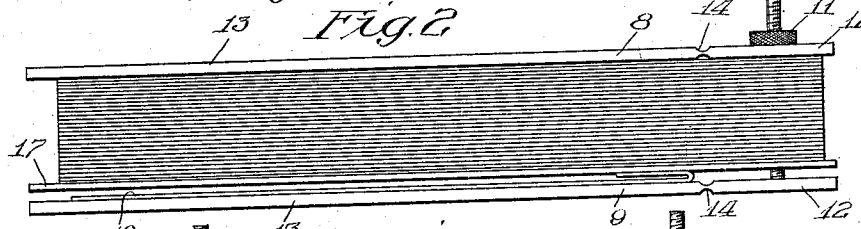


Fig 3

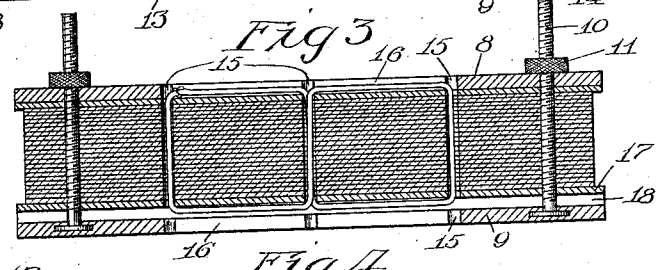


Fig. 4.

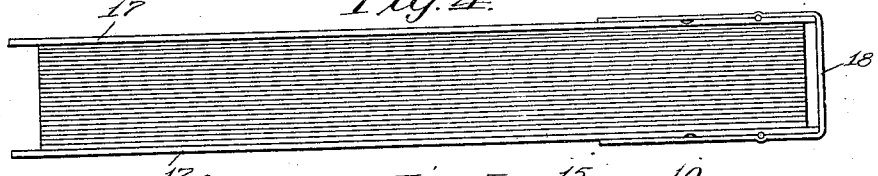


Fig. 5.

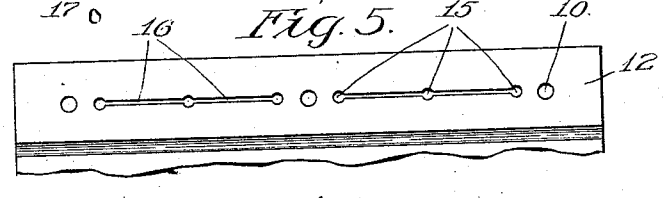
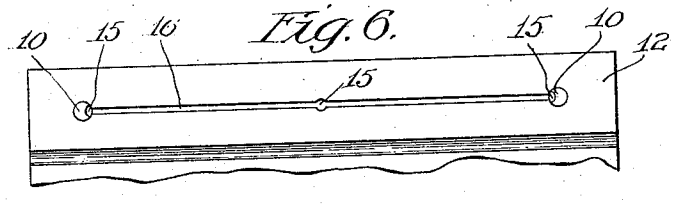


Fig. 6.



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UNITED STATES PATENT OFFICE.

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BINDER.

1,184,099. Specification of Letters Patent. Patented May 23, 1916.

Application filed May 11, 1914. Serial No. 837,898.

To all whom it may concern:

Be it known that I, GEORGE H. JENKINS, a citizen of the United States, residing at Oak Park, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Binders, of which the following is a specification.

This invention relates to binders within which leaves may be temporarily or permanently bound, and has reference to certain peculiarities of construction by which a permanent binding may be effected, the temporary binding means coöperating for this purpose.

In this invention, I have sought by very simple arrangements to provide a binder, the covers of which are utilized in the ordinary manner, but which are capable of further use in coöperating to effect a permanent binding of the leaves therein while still retained within the covers; and to accomplish the above end without adding materially to the cost of manufacture or size of the binder.

The invention further consists in numerous other features of construction and combinations of parts as will more fully hereinafter appear.

In the drawing: Figure 1 is a perspective view, showing the covers of the present binder in operative position; Fig. 2 is a side elevation of the same, showing a number of leaves arranged in position; Fig. 3 is a section on line 3—3 of Fig. 2; Fig. 4 is a side elevation of the leaves as permanently bound; Fig. 5 is a detail of the end of one of the covers, exhibiting a modification of the construction shown in Figs. 1 and 3; and Fig. 6 is a detail of a further modification of cover construction.

In the embodiment of my invention, two binder covers are utilized, between which a stack of leaves are bound through the instrumentality of posts, thongs, straps, or any other suitable means. The binder covers, for present purposes, may be considered as temporary, in that they are used only until their binding capacity has been reached, after which a transfer of their contents to permanent covers is made. In the transferring of the leaves to the permanent covers and binding of same therein, the temporary covers are not at first removed, but are used to assist in this operation.

Referring to the drawing, I have shown two covers 8 and 9 for current leaves, the means for securing the same between the covers comprising posts 10 threaded to receive each a thumb nut 11. As is usual in covers of this kind, the end binding portion 12 is joined to the body 13 thereof by a flexible connection 14 to permit of ease in manipulation and facility in handling.

The end portions 12 in the present device are each reinforced by a suitable plate, to which the posts or other connecting means are secured, and in which a plurality of openings 15 are arranged, these openings being interconnected by slots 16 of a width less than the diameter of said openings. It is intended that the openings and slots in the end binding portions of each cover shall be located in registering positions. The slot and enlarged opening arrangement may be modified without, however, departing from the underlying principles of this invention. Instead of this precise construction, a single continuous and widened slot may extend between the outermost openings 15 in either or both of the covers.

During use, it is contemplated that one of the covers 17 (which, for purposes of differentiation, will be termed a permanent cover) shall be inserted adjacent the inner side of one of the binder covers. The leaves are added from time to time, as required, and are secured in position upon the posts, or other equivalent means, which may be used. When the capacity of the binder has been reached and it is wished to transfer the contents in a permanently bound form, the following binding operation is carried into effect. Another permanent cover having openings registering with the posts or other securing means is inserted in place, so that the contained papers are protected on both sides, after which the temporary cover is replaced in position. The connecting means between the two temporary covers is then tightened to compress the bound edges of the leaves. In the embodiment of the invention illustrated, this end is accomplished by screwing down the thumb nuts 11 against the reinforced end binding portions, so that the bound edges of the leaves are compressed and firmly held. If the leaves between the covers are, previous to insertion, punched with holes adapted to register with the openings 15 in the end portions of the covers, no punching or drilling operation is required at this time. If otherwise, however, the binder, together

with the leaves, is brought into operative position with a punch for this purpose, or suitable drills are employed, to provide openings through the leaves in alinement with the openings 15. Cords or other suitable tying devices are then strung through the openings 15 and alining holes in the paper to secure the same in permanent bound form. Inasmuch as the end portions 12 are tightly compressed upon the edges of the paper to be bound, no appreciable amount of labor is required for this operation. It is obvious, as the cords are strung through to their permanent position, that they will lie tightly against the permanent covers, passing through the temporary covers to such position through the slots 16. The operation having been carried out in the manner described, the temporary covers are removed, to be again available for use, while the leaves theretofore bound between such covers are permanently bound as an independent book.

It is contemplated that to the permanent cover which lies adjacent the temporary cover at the time the leaves were first placed on file, a flexible backing 18 should be attached which is folded back out of the way prior to use in the manner indicated in Fig. 2. When the binding operation has been completed, this backing is carried around and secured in position across the back of the permanent covers, as appears in Fig. 4. In this manner, the cords extending across the end portions of the permanent covers are concealed and protected, and a surface is provided on the back of the file to which labels or other marks may be attached.

Although the binder illustrated in Fig. 1 shows but two posts and three openings between the same, it is obvious that the number of posts or openings may be varied to suit special requirement of use. In Fig. 5, for instance, an end portion having three posts is shown, between each two of which openings 15, 16 are provided through which a cord may be strung for binding purposes. In Fig. 6, another modification of the above principle is shown. In this case, the posts are grooved in such a way that a space is provided between the edges of the holes in the paper and the body of the posts. The cord may be strung through the space thus provided, eliminating the necessity of punching the outermost holes, as is required in the device illustrated in Fig. 1. If any further strengthening or reinforcement of the bound book of leaves is needed, I find, by driving wooden legs or posts into the holes, that any tendency of the leaves to work loose or out of position is effectually checked.

I claim:

1. In a binder, the combination of a pair of covers arranged to retain therebetween a quantity of leaves, means for holding said cover and leaves together in operative relation, the said covers being provided each with corresponding openings and interconnecting slots, the said openings serving as guides through which an instrument may pass to provide similar openings in the stack of leaves between the covers and the slots enabling a tying device to lie against said leaves when passed through the same to bind the leaves together, substantially as described.

2. A binder embodying leaves, covers therefor, and means for binding the leaves between the covers, each leaf being provided with registering openings for use in permanent binding only, and at least one of the covers being provided also with similar registering openings and a slot interconnecting the same, enabling a tying device to pass through the said cover and engage with the adjacent leaf thereunder, whereby the leaves may be permanently bound together independent of the slotted cover, substantially as described.

3. A binder embodying covers, leaves between the covers, posts secured to one cover and extending to the other through each of the leaves, the leaves being provided with registering openings for use in permanent binding only, the post-bearing cover having also similar registering openings and a slot interconnecting the same, enabling a tying device to pass through the said cover and engage with the adjacent leaf thereunder, whereby the leaves may be permanently bound together independent of the slotted cover, substantially as described.

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