April 13, 1926. 1,580,459

T. WESTLAND

BINDER

Filed May 20, 1924

Fig. 1.

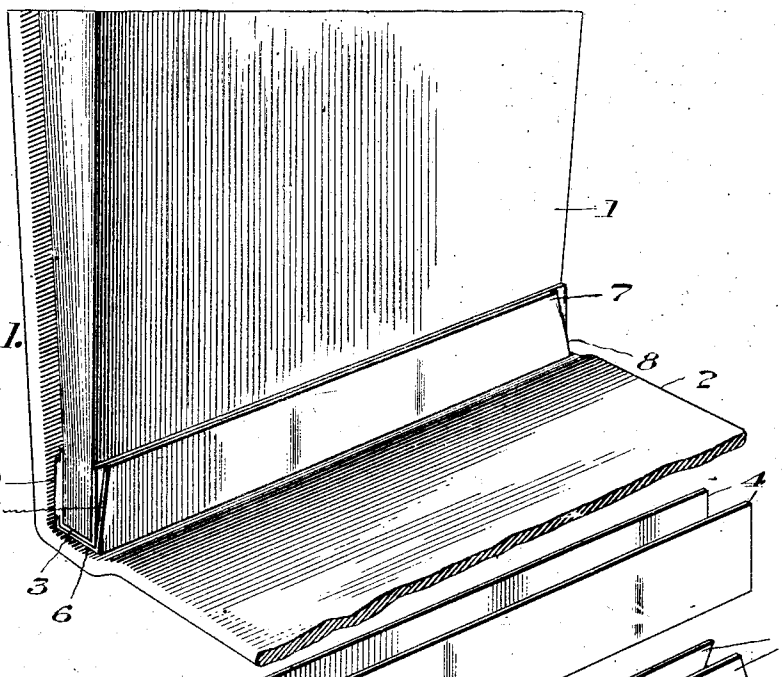


Fig. 2.

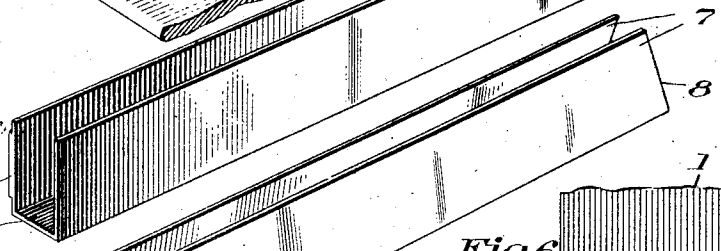


Fig. 3.

Fig. 6

Fig. 4.

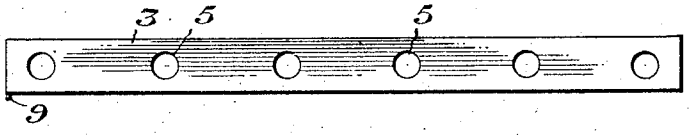
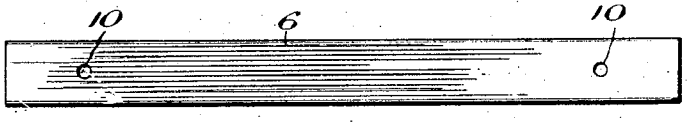


Fig. 5.



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UNITED STATES PATENT OFFICE.

THOMAS WESTLAND, OF RIDGWAY, PENNSYLVANIA.

BINDER.

Application filed May 20, 1924. Serial No. 714,667.

To all whom it may concern:

Be it known that I, THOMAS WESTLAND, a citizen of the United States, residing at Ridgway, in the county of Elk and State of Pennsylvania, have invented certain new and useful Improvements in Binders, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a binder. While unrestricted in its application, it is especially useful as an inexpensive binder for a batch of sheets in either loose or semi-bound condition.

It is contemplated among the objects of the invention to provide a resilient element of sufficient flexibility to hold a batch of leaves with about the same pressure one would exert with his fingers in the arrangement of the leaves with their edges in perfect alinement. In other words, a clamping member of considerable flexibility which will permit the insertion of a batch of leaves between the clamping members and retain the leaves with a flexibility which will permit the jogging of the leaves so as to aline the edges thereof.

It is a further object of the invention to associate with a clamping member of considerable flexibility another clamping member of great rigidity, so that when leaves have been properly assembled in the inner or more flexible clamp, the outer or rigid clamp may be applied. This is done, preferably, by sliding the flexible clamp into position to be embraced by clamping members of the outer binding element, so that the inner clamp acts as a guide, permitting the leaves to be slid into place without danger of disarranging or tearing them, and when so inserted they will be subject to the greater pressure of the outer element, insuring their retention in the original arrangement.

Still another object of the invention is to provide a simple and efficient means for limiting movement of the members in one direction; which will act as a stop to insure proper positioning of the members when assembled; which will permit easy removal of the inner member when desired, and which will be simple and easily constructed; which will provide means for easily attaching a cover thereto; and which will, in a word, constitute a simple, practical and easily made binder of the type specified.

Other objects and advantages will in part be apparent, and in part be brought out more fully in the description which follows:

An embodiment of the invention is illustrated in the accompanying drawings, the following views being shown:

Figure 1 is a fragmentary view in perspective showing an embodiment of the invention as a binder for a batch of leaves and carrying a cover, as in the well-known memorandum or order book;

Fig. 2 is a view in perspective of an inner or rather flexible binding member which is in contact with the leaves or pad to be bound;

Fig. 3 is a similar view of an outer or more rigid member which is adapted to exert a clamping action on the inner member when assembled as in Fig. 1;

Fig. 4 is a view in bottom plan of a portion of the inner member;

Fig. 5 is a similar view of the outer member, and

Fig. 6 is a fragmentary detail view in elevation showing a manner of assembling the parts.

In these views the reference character 1 designates, generally, either a batch of loose leaves or a pad of ordinary construction, and 2 a cover therefor, which when connected together by the binder comprising the present invention, constitute a book of the memorandum or order type.

The binder comprises an inner member having a back or body portion 3, and clamping or side members 4. The back may be provided with openings 5 for the purpose of increasing flexibility, or these may be dispensed with if desired. Both the back and sides, or clamping members, are constructed so that they will be rather flexible and adapted to embrace a batch of leaves with a pressure about equal to that which would be exerted by the fingers in alining the edges of loose leaves. In other words, when the ordinary amount of loose leaves is inserted between the clamping members of the inner member, the members will be sufficiently flexible to permit a certain amount of movement of the leaves due to jogging or jarring, but retain them in this position and act as a guide while the leaves and inner binder are being inserted in a permanent or outer binding element.

This comprises, as here shown, a back or body portion 6, and side or clamping

members 7. Both the clamping members 4 and 7 are attached to their respective body portions and extend, in spaced relation, at an angle to the body or back. The outer member is made of more rigid material, but of sufficient resiliency so that the side members 7 will have a clamping or binding action on members 4 when the inner member is slid into assembled position as shown in Fig. 1.

Means are provided for limiting movement of the parts in one direction, and as here shown the outer clamps or sides 7 are provided with slanted or bevelled portions 8. One of the inner clamping members 4 has an outstanding lug or projection 9 extending outwardly a slight distance beyond the plane of the outer surface of the clamping member on which it is mounted. When the inner member is slid into position between the members 7, this lug bears against one of the bevelled or slanted edges 8 of the outer member and insures proper positioning of the inner and outer members. It also acts as a stop, determining the limits in one direction of movement of these members when in assembled position.

The body or back of the outer member may also be provided with openings 10 for the reception of means for securing the outer member to the cover. Rivets or the like may be disposed in these openings; and the entire structure is of simple construction and has proven very successful in operation.

While my invention is shown in connection with the embodiment herein illustrated, it will be understood that I do not wish to be limited to the precise form of this disclosure, as many changes in the structure and arrangement of the parts are thought to be within the scope of the invention as set forth in the claim.

What I claim is:

A binder comprising a cover element; a filler element slidable within the cover element; and stop means on one of the elements to limit movement in one direction of the filler element; said filler element comprising a back, and a pair of clamping sides extending from the back in substantially parallel relation and adapted to yieldingly retain a batch of loose leaves, and said cover element comprising a back, a pair of clamping sides extending in converging relation from the back and adapted to exert a clamping action of greater degree on the leaves through the clamping sides of said filler element, and a cover member fixed to the back and extending past said sides to overlie the sheets of the filler element when said elements are assembled.

In testimony whereof I affix my signature.

THOMAS WESTLAND.