April 12, 1927. W. FELDMANN 1,624,660

BINDER

Filed Oct. 11, 1926

Fig. 1

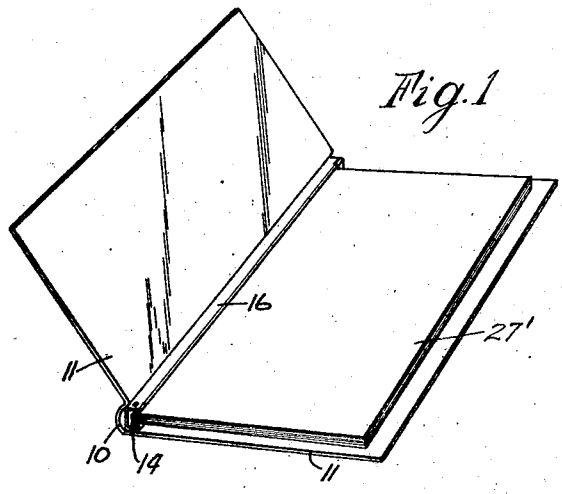


Fig. 2

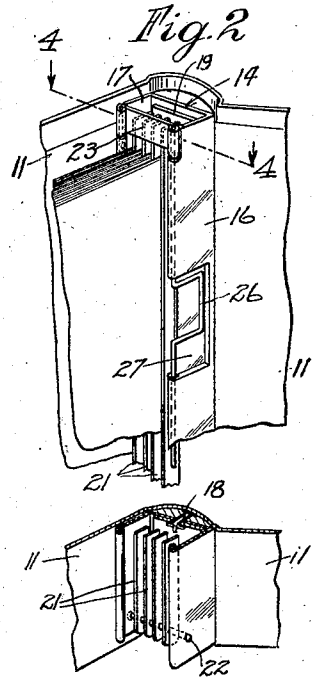


Fig. 3

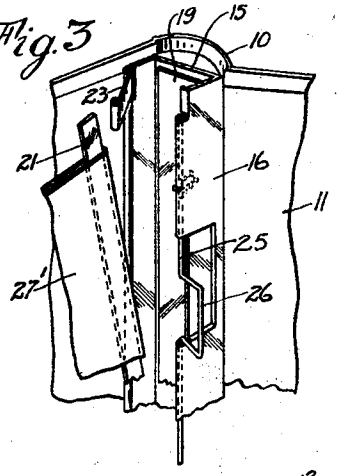


Fig. 4

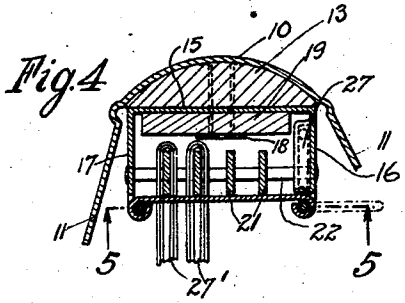
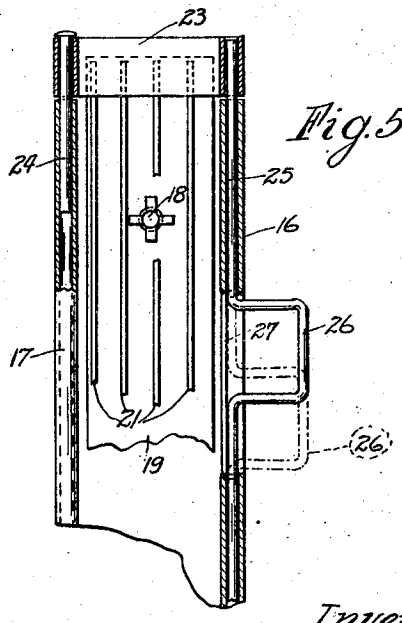


Fig. 5



Inventor
William Feldmann
by Henry Mech
Attorney.

Patented Apr. 12, 1927. 1,624,660

UNITED STATES PATENT OFFICE.

WILLIAM FELDMANN, OF CHICAGO, ILLINOIS.

BINDER.

Application filed October 11, 1926. Serial No. 140,791.

This invention relates to binders and particularly to those employed for folded or stitched sections or pamphlets or the like.

It is an object of the invention to provide a binder of the kind specified which is distinguished by its simplicity of construction and reliability of function.

A further object aims at providing a binder having a plurality of blades pivotally secured to one end of the backing member, and hinged means at the other end of said backing member for releasably securing the free ends of said blades.

A still further object constitutes the provision of a locking member for the blades which not only secures the free ends thereof, but also aligns the same.

A still further object aims at providing a locking member for the blades which permits selective and instant release of any or all sections held by said blades.

Other and equally important objects will become apparent from the following description of the invention which comprises the means described in the specification, particularly pointed out in the claims forming a part thereof, and illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of a book holder equipped with the invention;

Figure 2 is a fragmentary perspective view of the inner portion of the book to disclose the construction of the binder;

Figure 3 is a view similar to Figure 2, with a holder blade in open position;

Figure 4 is a section on the line 4—4 of Figure 2; and,

Figure 5 is a section on the line 5—5 of Figure 4.

The book with which the binder is employed comprises a back 10 and covers 11, 11, formed integral therewith, or, if preferred, made separate and secured to the back.

The binder comprises a retaining or backing member 14 which in the present instance is shown as a channel having a base 15 and flanges 16 and 17 at right angles thereto. The free ends of said flanges are curled. The retaining member 14 is secured to the back of the book by a plurality of rivets 18 (Fig. 5) which extend through a lining 19 applied to the inner surface of retainer base 15, and a member 13 made of wood for the round shape book effect or, where economy is indicated, preferably of flat binder's board. The lining 19 is only used as a filler, but can be omitted without any detriment as far as the invention is concerned.

It is understood that the particular form of the retainer member or its fastening to the book, is illustrated and described as an example, and is not intended as limitation of the invention.

To the lower end of the retainer member, a plurality of blades or bars 21 are pivotally secured. As shown, a pintle 22 extends parallel to the base 15 and removed from the free ends of flanges 16 and 17, and the ends of the pintle are headed over on to the flanges. The pintle extends into apertures provided in the blades so that the latter may be arranged parallel to the base 15 and thus be within the space defined by the flange and base, or the blades may be swung out about the pintle as the axis, as indicated in Figure 3.

The upper ends of the flanges are cut away to provide clearance for a locking member 23, which comprises a strip with curled ends. A wire 24 is housed in the curled end of flange 17 and extends into the curled end of locking member 23, whereby the latter is hingedly secured to the retaining member.

A wire 25 is mounted for reciprocation in the curled end of the flange 16 so that with the curled ends of the locking and the retaining members arranged in alignment, the wire 25 may be raised so as to enter into the curled end of the locking member, as shown in Figure 5.

The wire 25 is bent intermediate its ends to form a U 26 and the flange 16 is provided with an inward depression 27 to receive the U 26 when the latter is arranged to contact with the flange 16.

The use of the device is as follows: Folded or stitched sheets of paper 27′ are arranged around the blades 21, as indicated in Figure 3, when the locking member 23 is in open position. After the paper has been so arranged, the blades 21 together with the paper encompassing the same are swung around the pintle 22 to be received within the space defined by the base and flanges of the retaining member 14. Thereupon, the locking member 23 is swung about the wire 24 as axis until the free curled end is in alignment with the curled end of flange 16. Thereupon, the U portion 26 of the wire 25 is rotated until it occupies the posi-

tion at right angles to the flange 16, as indicated in Figure 5, to serve as a handle for shifting or raising the wire 25 until its free end extends into the curled end of the locking member 23. Then the U-portion 26 is turned into original position in which it contacts with the depression 27 of the flange 16.

From the foregoing it follows that a simple and efficient device has been provided for releasably securing the free ends of the blades which serve as a holder for loose leaves.

While the drawing shows a preferred embodiment of the invention, the invention has been illustrated merely by way of example and not by way of limitation. Thus, various changes and alterations may be made without departing from the purview of the invention.

I, therefore do not limit myself to the details of construction or arrangement as shown, but wish to include all changes, alterations, rearrangements and revisions which fall within the scope of the invention as defined in the appended claims.

I claim:

1. A binder, including a backing provided with spaced flanges, a plurality of elements pivotally secured to one end of said backing and between said flanges, a member hinged to the opposite end of one flange and adapted to hold the free ends of said elements between said flanges, and means slidable on the other flange for removably securing said member.

2. A binder, including a backing, provided with spaced flanges, a plurality of blades pivotally secured to one end of said backing and between said flanges, a member hinged to the opposite end of one flange and adapted to hold the free ends of said blades between said flanges, and means including a wire, with a portion bent to form a U, slidable on the other end for removably securing said member.

3. A binder, including a backing provided with spaced flanges, a plurality of elements pivotally secured to one end of said backing and between said flanges, a member hinged to the opposite end of one flange and adapted to hold the free ends of said elements between said flanges, and a wire, with a portion bent to form a U and slidable on the other flange to respectively engage and release the free end of said hinged member.

In witness whereof I affix my signature.

WILLIAM FELDMANN.