

June 24, 1930.

W. E. HASKIN

1,767,978

BINDER

Original Filed Jan. 12, 1927

Fig. 1.

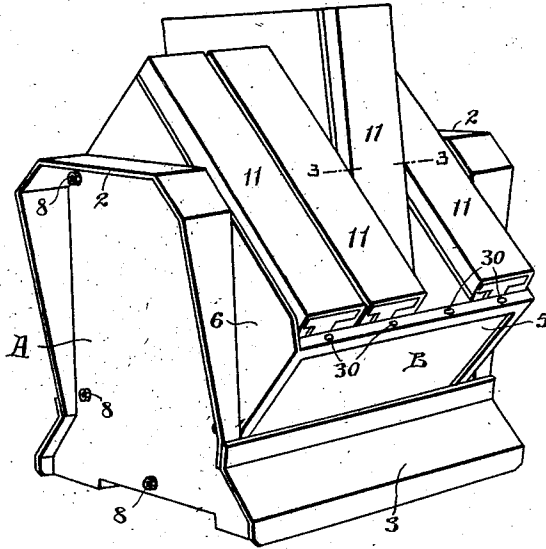


Fig. 2.

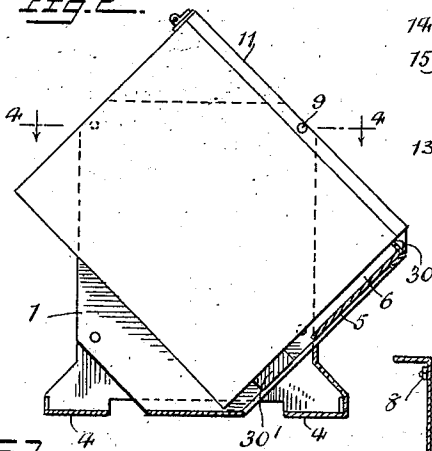


Fig. 3.

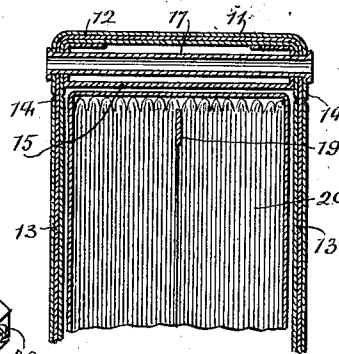


Fig. 4.

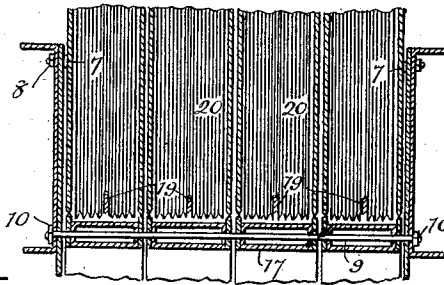


Fig. 5.

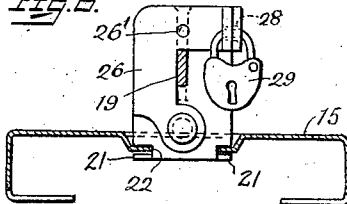


Fig. 6.

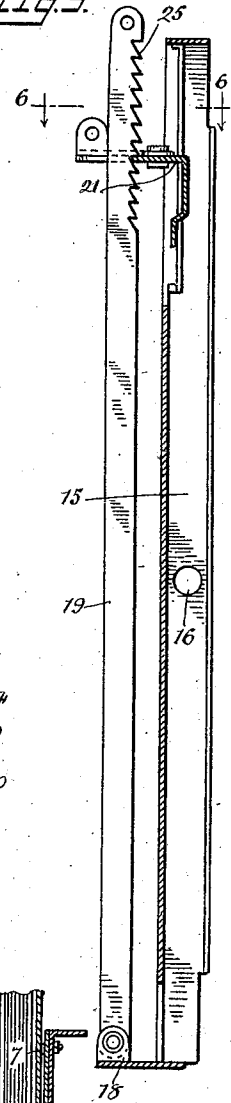
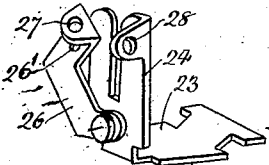


Fig. 7.



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UNITED STATES PATENT OFFICE

WALTER EASTER HASKIN, OF NEW YORK, N. Y., ASSIGNOR TO PRESSED & WELDED STEEL PRODUCTS COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

BINDER.

Original application filed January 12, 1927, Serial No. 160,680. Divided and this application filed April 23, 1929. Serial No. 357,551.

This invention relates to binders and more particularly to binders for books adapted for mounting in my improved bookstand.

This is a division of my application for patent on bookstands, filed January 12, 1927, Serial No. 160,680, which has since matured into a patent issued May 28, 1929, and numbered 1,715,233.

The object of the invention is to provide a binder which is adapted to support or hold a book or books or other objects for pivotal mounting in connection with my improved bookstand.

The invention includes an improved construction which is strong and durable, improved means for removably holding a book or the like, and improved means for locking the parts in operative position.

With this and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, which will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a perspective view of my bookstand supporting a plurality of my improved binders with one of the binders partially turned upon its pivotal support;

Figure 2 is a view in vertical section, the section being taken between the binders;

Figure 3 is a view in transverse section through a single binder, the view being taken on the line 3—3 of Figure 1;

Figure 4 is a view in section on the line 4—4 of Figure 2;

Figure 5 is a view in longitudinal section through the channel-shaped inner metal frame;

Figure 6 is a view in transverse section on the line 6—6 of Figure 5;

Figure 7 is a perspective view of my improved adjustable bracket shown in elevation in Figure 6 but in a different position.

My improved binder as above stated is adapted for use in connection with my improved bookstand forming the subject matter of the copending application above referred to and I shall briefly describe the bookstand

in order to clearly set forth the utility of the binder.

The bookstand includes a supporting member A composed of side plates 1, 1, preferably strengthened by projecting flanges 2 and fixedly connected at the front by a plate 3 which is at the side edges of the plates 1, 1 adjacent one end. The plates 1, 1 are also connected by plates 4, 4 at the extremities of the sides 1, 1. These plates 3 and 4, 4, and the extremities of the sides 1, 1 constitute feet on which the support A rests or is secured when the supporting member is in a vertical or horizontal position.

The book housing B is of somewhat U-shape in longitudinal section, and an intermediate member 5 connecting side members 6, 6 of said book housing, and said housing located between the sides 1, 1 of the supporting member A. The supporting member and the book housing are secured together by longitudinal bolts or other securing means so as to hold them in proper relationship.

The members A and B are also connected by a rod 9 extended through side members 6, 6 and 1, 1 and secured at their ends by nuts 10 screwed onto the ends of the rod against the outer faces of the sides 1, 1. This rod 9 serves as a pivotal support for a plurality of binders 11, one of which will now be described, and it will be understood that this description will apply alike to all of the binders.

Referring more particularly to Figures 3, 4, 5, 6 and 7, it will be noted that each binder has a rigid reinforced channel-like back member 12, to which side leaves 13, 13 are hingedly connected. These side leaves 13, 13 are formed in the ordinary way, comprising stiff sheets which are enclosed in a covering extending around the back portion, so that at the point of juncture between the back portion 12 and the leaves 13 the parts are fixedly connected to form hinges, as indicated at 14.

In the back portion 12 of each binder I locate a channel-shaped metal frame 15 which has perforations in the opposite walls, as indicated at 16, to receive a tubular bearing or eyelet 17 fixed therein, and the rod 9 above referred to extends through all of these tubu-

lar bearings or eyelets 17 to provide pivotal mounting for the binders.

Each binder is provided at one end with a bracket 18 to which a bar 19 is pivotally connected. This bar 19 is adapted to be projected between the pages of a book 20 and secured in an adjustable bracket 21 carried by the frame 15.

The frame 15 is made with a longitudinal slot 22 therein, in which the base member 23 of the adjustable bracket 21 is mounted to slide, and is held against accidental movement. This bracket 21 has a bifurcated upright member 24 adapted to receive the bar 19 therein, and said bar 19 has a toothed or serrated inner edge 25 which engages a wall of the upright member 24 and holds the bracket against longitudinal movement relative to the frame 15.

To secure this bar 19 in locked engagement with the bracket 21 I employ a pivoted arm 26 on the upright member 24, and this arm 26 is of angular form so that when it is swung into operative position it will extend across the edge of the bar 19, said arm 26 and the upright member 24 being provided with perforated lugs 27 and 28, respectively, which may receive a small padlock 29 or other suitable fastening means for locking the bar against movement so as to secure a book against theft.

The padlock 29 is not necessary in most cases as I provide the arm 26 with a lug or projection 26' which snaps into the slot of the bifurcated member 24 and holds the parts in normal position.

One reason for providing an adjustable bracket 21 is to allow the binder to accommodate a book of any desired length as it is altogether to be imagined that this binder may be used for books of various sizes, and such adjustment permits of a wide range of utility for the device.

When the books are secured in the binders as above explained they are normally enclosed and located side by side and to a great extent encased in the housing member B. When it is desired to examine one of the books it is simply necessary to grasp the upper end of the binder and turn the same with the book therein to bring it over to a position on the edge of member B, and I have provided on this edge of member B a plurality of cushions 30 to receive the binders and prevent noise and undue wear.

The books or binders when in enclosed position are preferably supported on a cushioning bar or block 30'.

I would call particular attention to the fact that the bearings or eyelets 17 are located at a point below the horizontal center of the binder so that there is a greater length of binder above the eyelet than there is below; hence the binder when swung outwardly will

rest on the edge of housing B, and when swung inwardly will lie within said housing.

It is to be noted that the end books or binders require a support for the leaves when in an open position, and the flange 2 is primarily intended for that purpose in addition to strengthening the side plates 1. It is also to be noted that the leaves of the intermediate books or binders when open are supported by the backs of the adjacent books and do not require the support of the above flanges 2.

Another point is that the backs of the books either opened or closed are preferably disposed in the stand at an angle of 45°. They are thus equally legible to the reader either in a sitting or standing position and, furthermore, the leaves of the open book have a less tendency to sag than if the book were pitched at a sharper angle.

Various changes and alterations might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A book binder, including a back portion, sides hingedly connected to the back portion, a frame located in the back portion, a sleeve extending through the frame and back portion and coupling the same together, a bar pivotally connected at one end to the frame and adapted to project between the leaves of a book, a bracket adjustable on the frame for receiving the bar, and means for securing the bar in said adjustable bracket.

2. A book binder, including a back portion, sides hingedly connected to the back portion, a frame located in the back portion, a sleeve extending through the frame and back portion and coupling the same together, a bar pivotally connected at one end to the frame and adapted to project between the leaves of a book, a bracket on the frame for receiving the bar and means for removably securing one end of the bar to the bracket.

Signed at Long Island City, in the county of Queens and State of New York, this 19th day of April, A. D. 1929.

WALTER EASTER HASKIN.