F. L. MANNY.

TEMPORARY BINDER.

APPLICATION FILED AUG. 6, 1909.

1,012,090.

Patented Dec. 19, 1911.

Fig. 1.

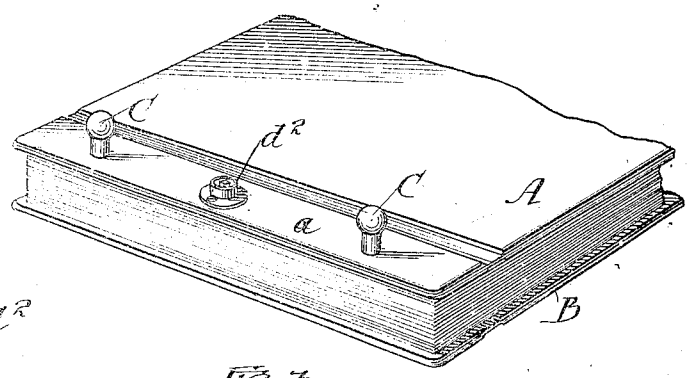


Fig. 2.

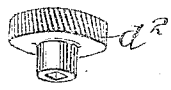


Fig. 3.

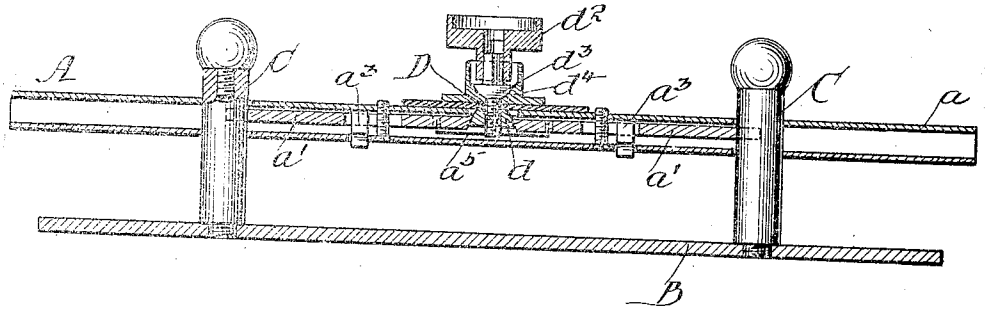


Fig. 4.

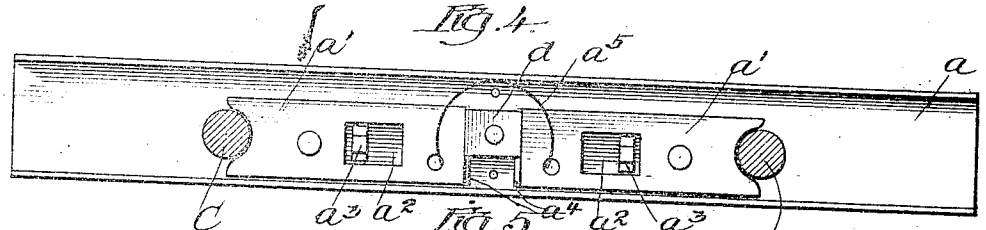
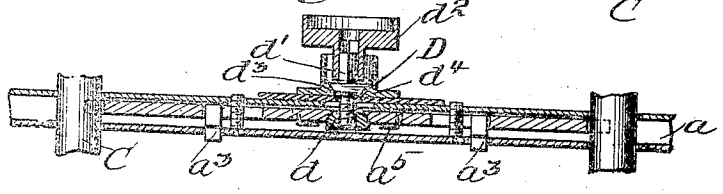


Fig. 5.



Witnesses:

Frank L. Blanchard

Inez Bergstrom.

Inventor:

Fred L. Manny

By Hugh B. Hadley

Attorney.

UNITED STATES PATENT OFFICE.

FRED L. MANNY, OF BENTON HARBOR, MICHIGAN, ASSIGNOR TO METAL SECTIONAL FURNITURE COMPANY, OF PORTLAND, MAINE, A CORPORATION.

TEMPORARY BINDER.

1,012,090. Specification of Letters Patent. Patented Dec. 19, 1911.

Application filed August 6, 1909. Serial No. 511,481.

To all whom it may concern:

Be it known that I, FRED L. MANNY, of the city of Benton Harbor, county of Berrien, and State of Michigan, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings.

My invention relates to that class of binders in which one of the binder covers is attached to the binder posts and the other binder cover is perforated and adapted to slide upon the binder posts and to be locked thereto by a friction lock.

In the drawings, Figure 1 is a perspective of my binder. Fig. 2 is a detail of the thumb screw used to operate the lock thereof. Fig. 3 is a sectional elevation showing the locking parts of my invention in a locked position. Fig. 4 is a plan view of the upper or locking binder bar showing my locking mechanism in detail. Fig. 5 is a sectional elevation showing my binder in unlocked position.

More particularly described, A represents the movable or locking cover of my binder and B the bottom cover which is permanently attached to the binder posts C C.

X represents the leaves contained in my binder.

a represents the locking bar of my device and consists of a flattened tube of steel or other desired material suitably perforated to slide upon the posts C C. Within this bar *a* is contained my locking mechanism which consists of two plates a' a' lying longitudinally within the bar *a* and recessed at their outer ends to correspond with the shape of the posts C C. Midway of the plates a' a' a rectangular aperture a^2 is formed and studs a^3 a^3 conforming in width with the width of the apertures a^3 a^3 are secured to one side of the bar *a* and project through the said apertures to form a guide for the plates a' a' in their lateral movement. The inner ends of the plates a' a' lie a short distance from each other and are beveled as shown at a^4. A spring a^5 is secured to the inner face of the bar *a* and engages the plates a' a' for the purpose of holding them normally out of contact with the posts C C.

A screw D is attached to the bar *a* and projects through the same to a point between the inner ends of the plates a' a'. To the inner ends of the screw D is engaged by suitable threads, a block *d* fitted with beveled faces adapted to engage the beveled ends of the plates a' a' for the purpose of forcing them laterally along the bar *a* into engagement with the posts C C. The outer end of the screw D is fitted with a squared head d' adapted to receive a key or a removable thumb screw d^2 whereby the screw D may be turned and the lock operated. To equalize the adjustment of the plates a' a' so that each of them may bear with the same pressure against their respective posts C C, the screw D is fitted midway its length with a collar d^3 having an outer convex surface adapted to rest in a corresponding concave seat d^4. This enables the block *d* to have a slight lateral movement within the bar *a* for the purpose above named.

In operation the lock is shown in Fig. 5 in its unlocked or released position, the screw D being turned to the point of moving the block *d* below and out of locking contact with the plates a' a'. The spring a^5 in this position draws the plates a' a' away from contact with the posts C C. By a revolution of the screw D driving it within the block *d*, the block *d* is drawn up between the plates a' a' and in contact therewith, thereby driving the said plates laterally into contact and locking engagement with the posts C C. This locked position is shown at Fig. 3.

What I claim as my invention is:—

1. The combination in a temporary binder of the class described, with binder posts and a movable cover suitably perforated to slide upon said posts, of a lock consisting of a tubular bar attached to said movable cover, longitudinally movable plates lying within said bar, the inner ends of said plates fitted with beveled faces, and a block beveled to correspond with said beveled faces and adapted to force said plates longitudinally in said bar into engagement with the said binder posts, and means adapted to permit lateral play of said block.

2. The combination in a temporary binder of the class described, with binder posts and a movable cover suitably perforated to slide upon said posts, of a lock consisting of a tubular bar attached to said movable cover, plates longitudinally movable within said bar adapted to engage said binder posts, a block adapted to force said plates longi-

tudinally into contact with the said binder posts, a stem attached to said block and passing through a perforation in said bar, a convex collar attached to said stem having bearing in a concave recess upon the outer face of the said tubular bar, whereby said block is permitted lateral play within said bar.

3. The combination in a temporary binder of the class described, with binder posts and a movable cover suitably perforated to slide upon said posts, of a lock consisting of a tubular bar attached to said movable cover, plates lying within said bar and adapted to laterally engage said binder posts, beveled faces fitted upon the inner ends of said plates, a beveled block lying in contact with the said beveled faces, a screw engaging said beveled block, a convex collar fitted upon said screw and a concave seat fitted on the outer face of said bar and adapted to engage said convex collar.

4. The combination in a temporary binder of the class described, with binder posts and a movable cover suitably perforated to slide upon said posts, of a lock consisting of a tubular bar attached to said movable cover, plates lying within said movable bar and adapted to laterally engage said binder posts, a block adapted to force the said plates into engagement with the said posts and means whereby said block is adapted to play laterally within said bar, consisting of a stem attached to said block passing through a suitable perforation in said bar, a convex collar fitted upon said stem, a concave seat secured to the outer face of said bar and adapted to receive the said convex collar.

FRED L. MANNY.

Witnesses:
WILLETT H. CORNWELL,
INEZ BERGSTROM.