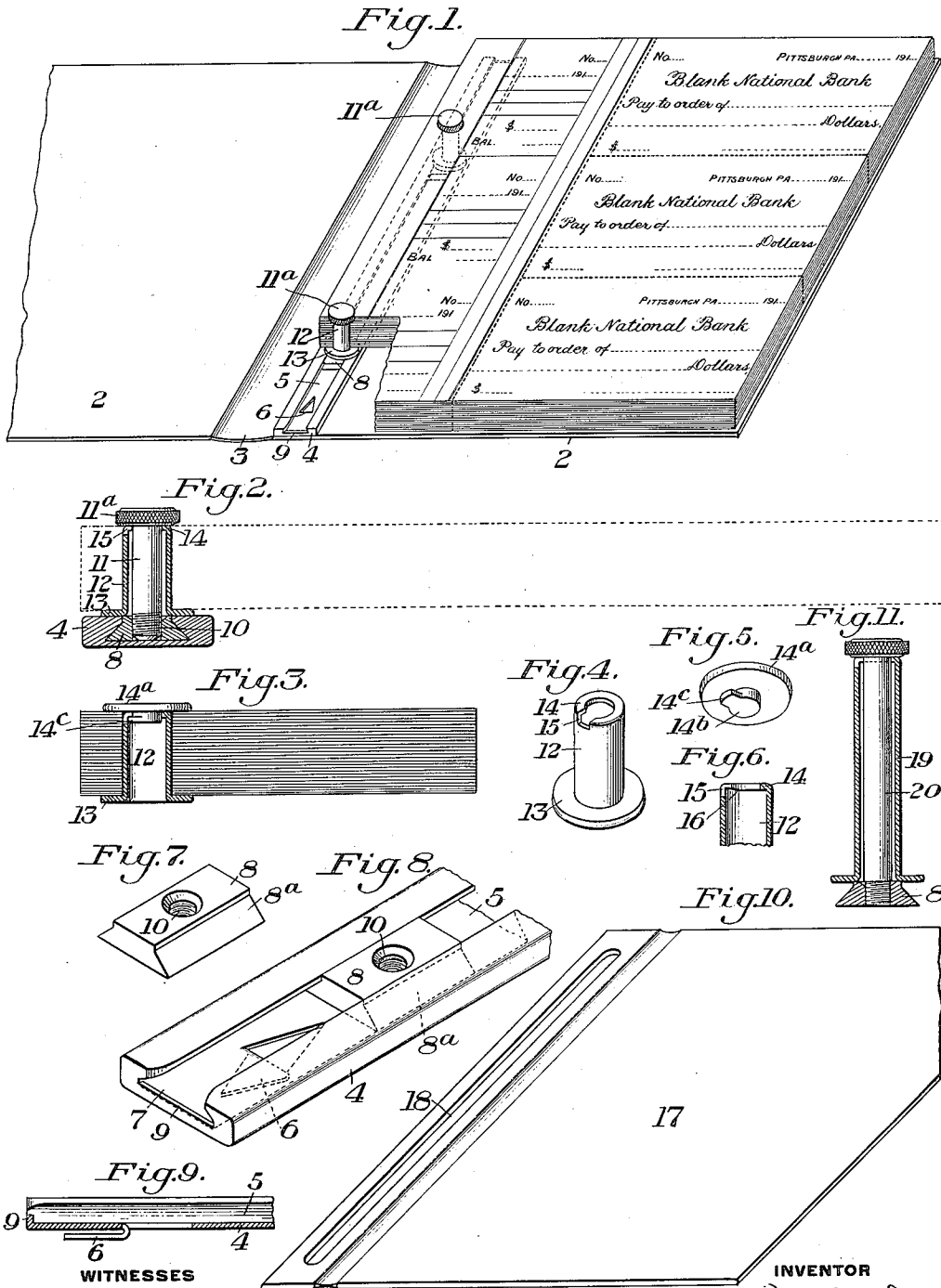


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 LOOSE LEAF BINDER.  
 APPLICATION FILED JULY 25, 1912.

1,051,089.

Patented Jan. 21, 1913.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## LOOSE-LEAF BINDER.

1,051,089.

Specification of Letters Patent.

Patented Jan. 21, 1913.

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*To all whom it may concern:*

Be it known that I, REESE C. DAVID, a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Loose-Leaf Binders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a binder embodying my invention with the cover opened and a portion of the leaves broken away; Fig. 2 is a detail sectional view of the binder; Fig. 3 is a detail sectional view showing how the leaves may be clamped to the post for transfer; Figs. 4 and 5 are detail perspective views; Fig. 6 is a sectional view of the upper portion of the sleeve member; Fig. 7 is a perspective view of one of the slides; Fig. 8 is a perspective view of a portion of the guide with a slide therein; Fig. 9 is a detail sectional view showing one manner of securing the guide to the cover; Fig. 10 is a perspective view of a modified form of cover; and Fig. 11 is a detail view of a form of post and clamping screw which may be used with the cover shown in Fig. 10.

My invention has relation to loose leaf binders, and is designed to provide a binder of this character which is simple in its construction and operation, which will enable the leaves to be bound firmly in place, and which will permit of the ready removal of the book of leaves at any time for transfer purposes.

The nature of my invention will be best understood by reference to the accompanying drawings, in which I have shown the preferred embodiment thereof and which will now be described, it being premised, however, that the invention is susceptible of various changes in the details of construction and arrangement of the parts within the scope of the appended claims.

In these drawings, the numeral 2 designates the usual cover having the flexible back portion 3. Secured to one leaf of the cover is a metallic guide 4 having therein a dovetailed or undercut slideway 5. The guide member 4 may be conveniently formed of metal and can be secured to the back 2 in any suitable manner, as by riveting, or

tongues 6 may be bent therefrom and engaged with the cover, as shown in Fig. 9.

The slideway of the guide member is open at at least one of its ends, this open end being preferably flared, as shown at 7 in Fig. 8, for the purpose of facilitating the insertion of the slide blocks 8. The flared open end of the slideway may also be provided with a guard rib 9, which will prevent the slide blocks from falling out, although they can be readily inserted over this rib.

Any desired number of the slide blocks 8 may be employed, according to the number of posts which it is desired to use. In the present instance, I have shown two of these blocks. Their edges are beveled or otherwise shaped, as indicated at 8<sup>a</sup>, so as to fit the undercut portions of the slideway in which they are adapted to be freely moved when released. Each of these blocks is formed with a threaded opening 10, to receive a clamping screw 11. Preferably, the orifice of the opening 10 is beveled, so as to properly center and guide the screw, as it is inserted.

The numeral 12 designates the binding posts which consist of tubular sleeves or thimbles having outwardly turned flanges 13 at their lower ends, and preferably having each an inwardly turned flange 14 at its upper end. The flange 14 is slotted at 15, for the purpose hereinafter described.

In the use of the device, the slide blocks 8 are set at the proper distance apart in the slideway of the guide member to suit the particular punching of the leaves. The posts 12 are then placed thereon, their lower flanges 13 resting upon the top of the guide member. The binding screws 11 are then inserted through the posts and are screwed down through the slide blocks, thus securing the latter firmly in place. The upper ends of the binding screws are provided with the flat heads 11<sup>a</sup>, between which and the lower flanges 13 of the post the sheets or leaves are securely clamped. When it is desired to remove the set of leaves for transfer purposes, the screws 11 are removed and a top clamp 14<sup>a</sup>, such as is shown in detail in Figs. 3 and 5, is engaged with the upper end of each post. These top-clamping members are of button-like form with a depending stud 14<sup>b</sup>, having a projecting lug 14<sup>c</sup>, adapted to engage the notch or slot 15, before described.

The under surface of the intumed flange 14 of the post is preferably inclined or cammed adjacent to the slot 15, as indicated at 16 in Fig. 6. When the stud 14<sup>b</sup> is inserted in the upper end of the post and the clamp member slightly rotated, this cam surface will act upon the lug 14<sup>c</sup> to draw the clamping member downwardly into clamping engagement with the top leaf. The entire set of leaves securely bound in this manner can then be removed as a unit.

When the device is desired to be used with a set of leaves of too great thickness to be conveniently contained within a flexible cover, such as shown in Fig. 1, the flexible backing and the top leaf of the cover may be omitted and a separate top cover provided, such as shown at 17 in Fig. 10. This cover 17 is provided at one edge with elongated slot 18, closed at its ends and adapted to receive the upper portions of the posts therethrough. With this form of cover, a long post 19 and long binding screw 20 may be employed of the general form shown in Fig. 11.

The advantages of my invention will be apparent to those familiar with this art, since it provides a very simple and effective form of binder in which the posts can be readily adjusted to suit any desired spacing of leaf punchings. The binder is therefore not limited in use to any standard punching. Any desired number of posts may be employed and the set of leaves can be quickly removed at any time for transfer purposes.

I claim:

1. A loose leaf binder having a relatively stiff cover portion and a guide member secured thereto and having a slideway therein, slides normally loose in said slideway, removable post members seated upon the guide member, and clamping screws which pass

downwardly through the post into securing engagement with the slides, substantially as described.

2. A loose leaf binder, comprising a relatively stiff cover member, a guide member secured thereto, and having an undercut or dovetailed guideway therein, slides normally loosely mounted in the slideway, flanged tubular posts removably seated upon the top of the guideway, and binding screws extending downwardly through the posts and engaging the slides to clamp them in the slideway, substantially as described.

3. In a loose leaf binder, a cover member having a slideway secured thereto, a tubular post having a bottom flange adapted to seat upon the top of the slideway, a slide adapted to move within the slideway, and a headed binding screw which passes downwardly through the tubular post and engages the slide, substantially as described.

4. A loose-leaf binder, comprising a slideway, a slide member movable therein, a tubular post formed with a flange at its lower end, and clamping means adapted to clamp the loose leaves against said flange and to also clamp the slide member in its adjusted position in the slideway; substantially as described.

5. A loose leaf binder having a guideway, slide members movable in the guideway, posts detachably mounted on the guideway, means for normally securing the posts and slides in fixed position, and other means for securing the sheets on the posts when the latter are removed from the guideway, substantially as described.

In testimony whereof, I have hereunto set my hand.

REESE C. DAVID.

Witnesses:

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A. F. TIBBETTS.