

No. 840,949.

PATENTED JAN. 8, 1907.

W. S. MENDENHALL.
TEMPORARY BINDER.
APPLICATION FILED MAR. 16, 1906.

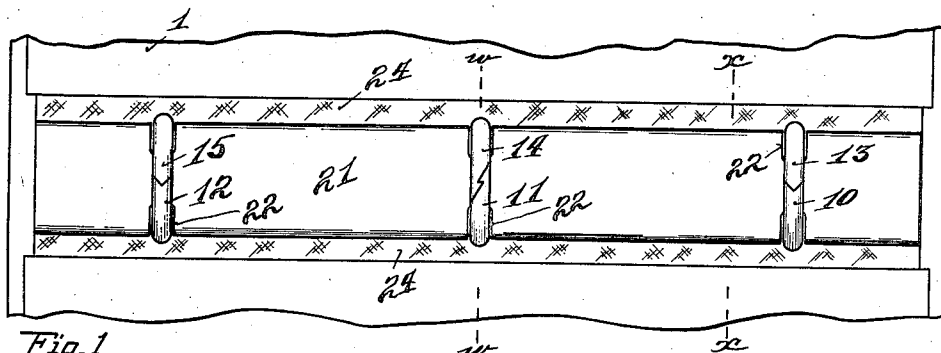


Fig. 1.

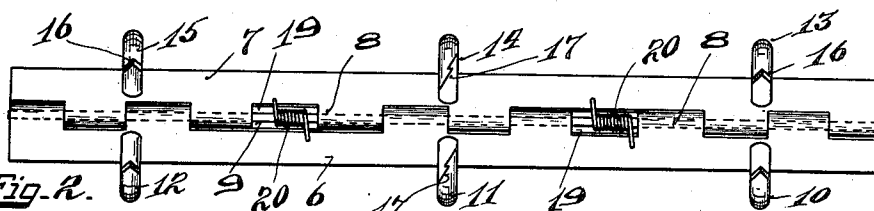


Fig. 2.

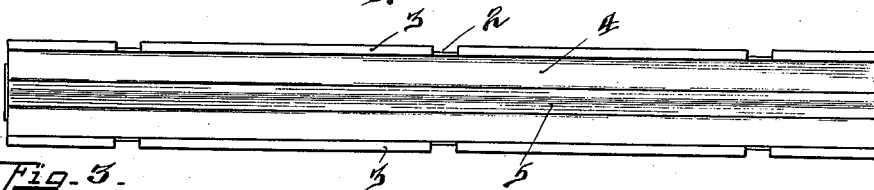


Fig. 3.

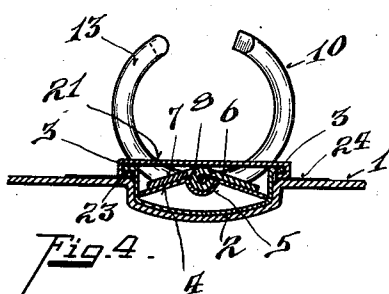


Fig. 4.

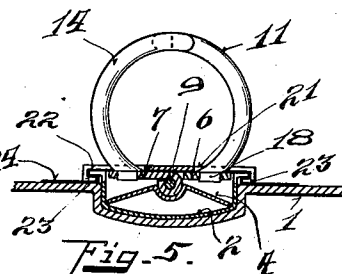


Fig. 5.

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Witnesses

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UNITED STATES PATENT OFFICE.

WALTER S. MENDENHALL, OF CINCINNATI, OHIO, ASSIGNOR TO THE SAM'L
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TEMPORARY BINDER.

No. 840,949.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed March 16, 1906. Serial No. 306,333.

To all whom it may concern:

Be it known that I, WALTER S. MENDENHALL, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

My invention relates to a temporary leaf-holding book of the class employing loose leaves with marginal orifices and opening and closing retaining-hooks held within the back of the book-cover.

The object of the invention is to provide a simple and efficient construction of these devices, and I preferably also employ a master-hook, the manipulation of which controls the series of hooks.

It is also preferable that the master-hook have its meeting ends provided with interlocking surfaces which interlock against strains applied in the direction of hinged movement of the hook-sections, but which yield to lateral strains sufficiently to be manually unlocked for opening the hooks and to automatically interlock for closing the hooks.

Another object of my invention is to provide a simple casing or housing with convenient and secure means for attaching it to the book-cover.

These and other objects of my invention will be more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of the open cover. Fig. 2 is a top plan view of the hinges and hooks open. Fig. 3 is a top plan view of the bottom casing. Fig. 4 is a section on line *xx*, Fig. 1, the hooks being shown in open position. Fig. 5 is a section on line *ww*, Fig. 1.

1 represents the back of the book-cover.

2 represents the lower casing member fitting snugly within the cover-back (see Fig. 4) and provided at its upper opposite edges with the outwardly-extending flanges 3.

4 represents a support upwardly arched and bridging the space formed between the inner sides of the casing member 2. The medial portion of this support 4 is provided with the longitudinal recess 5, which serves as a seat for the hinged members of the device.

6 7 represent the hinge members, the meeting edges of which are provided with the aligned eye-lugs 8, through which passes the

hinge-rod 9, as indicated in dotted lines, Fig. 2.

The hook-sections 10 11 12 are attached to the hinged member 6, and their cooperating hook-sections 13 14 15, respectively, are attached to the member 7.

The hook-sections 13 10 and 12 15 have at their meeting edges the V-notches 16, which anchor the meeting ends against lateral strains.

The meeting ends of the hook-sections 11 14 are provided with the interlocking surfaces 17, which automatically interlock when the ends are forced together and which can only be unlocked by applying the strain transversely to the line of their hinged movement. This hook, composed of the sections 11 14, is therefore a master-hook, the manipulation of which controls the opening and closing of the other hooks.

The lower ends of the hooks are provided with lugs 18, which are secured to the hinge members 6 7, as shown in Fig. 5. At one or more places along the meeting edges of the hinge members 6 7 the metal is cut away, as shown at 19, Fig. 2, to provide for the disposition of the coil-springs 20. (See Fig. 2.) These coil-springs are coiled around the rod 9 with their opposite ends bearing down, respectively, on the upper faces of the hinges 6 7, thereby normally pressing the outer edges of the hinges in a downward direction, as shown in Fig. 4, in which position the hinges rest upon the straight sloping sides of the support 4 with the hooks open.

It will thus be seen that when the meeting ends of the master-hook 11 14 are disengaged the hinges will be pressed downwardly, opening all the hooks, as indicated in Figs. 2 and 4, and when the meeting ends of the master-hook are pressed together and interlocked the hinges will move upward on their hinge-rod 9 until they lie against the cover plate 21, as shown in Figs. 1 and 5, with all of the hooks closed. This cover-plate is provided with marginal notches 22, through which the hooks pass. It is also provided at its opposite edges with the downwardly-turned marginal hooks 23, which engage over the flanges 3 of the bottom casing 2. (See Figs. 4 and 5.) To securely attach this casing, composed of the members 2 and 21, to the cover-back 1, I provide the cover-lining 24, of any suitable material, which is folded

in between the meeting surfaces of the flanges 3 and the hooks 23, the opposite outer edges of this lining being glued to the cover 1. (See Figs. 4, 5.)

5 Having described my invention, I claim—

1. In combination with the cover-back of a loose-leaf-holding book, a hinge-rod and hinge members movable independently of the back, a spring engaging the hinge members
10 and pressing them normally in one direction of movement, coöperating hook-sections secured to the hinge members, one of said pairs of hooks having its meeting ends provided with interlocking surfaces, substantially
15 as described.

2. In combination with the cover-back of a loose-leaf-holding book, a hinge-rod, hinge members having alined eye-lugs through which the rod passes, a support for the hinge,
20 a spring engaging the hinge members and holding them normally in one direction, and hook-sections attached to said hinge members, substantially as described.

3. In combination with the cover-back of
25 a loose-leaf-holding book, a lower casing member fitting the back, an arch-support within the casing, hinge members and a hinge-rod on said support, a spring forcing the hinge members in one direction normally,
30 hook-sections attached to said hinge members, a cover-plate attached to the casing, and means for attaching the case to the cover-back; substantially as described.

4. In combination with the cover-back of
35 a loose-leaf-holding book, a lower casing member fitting within the back, an arched support having a medial longitudinally-extending recess, hinge members having alined eye-lugs, a hinge-rod passing through said
40 eyes, said lugs seating in the recess, a spring exerting a normal pressure on the hinge, hook-sections attached to said hinge members, and a cover-plate for the lower casing,

the hinge members lying against the opposite sides of the support when the hooks are
45 open and against the under surface of the cover-plate when the hooks are closed, substantially as described.

5. In combination with the cover-back of a loose-leaf-holding book, a lower casing
50 member fitting within the back, an arched support having a medial longitudinally-extending recess, hinge members having alined eye-lugs, a hinge-rod passing through said
55 eyes, said lugs seating in the recess, a coil-spring around the rod the opposite ends of which bear on the hinge members and press them normally down on opposite sides of the support, hook-sections attached to said hinge
60 members, one of said hooks having interlocking meeting ends thereby constituting a master-hook, and a cover-plate attached to the lower casing member, substantially as described.

6. In combination with the cover-back of
65 a loose-leaf-holding book, a lower casing member, hinge members having alined eye-lugs, a hinge-rod passing through said eyes, a support in the casing having a medial seat for the eye-lugs and sloping sides, a spring on
70 the rod engaging the hinge members and forcing them normally upon the support, hooked sections attached to the hinge members, having interlocking ends, a cover-plate
75 the edges of which are interlocked with the edges of the casing, and a lining secured to the cover-back and passing between the interlocking casing members, substantially as described.

In testimony whereof I have hereunto set
80 my hand.

WALTER S. MENDENHALL.

Witnesses:

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