

No. 642,244.

Patented Jan. 30, 1900.

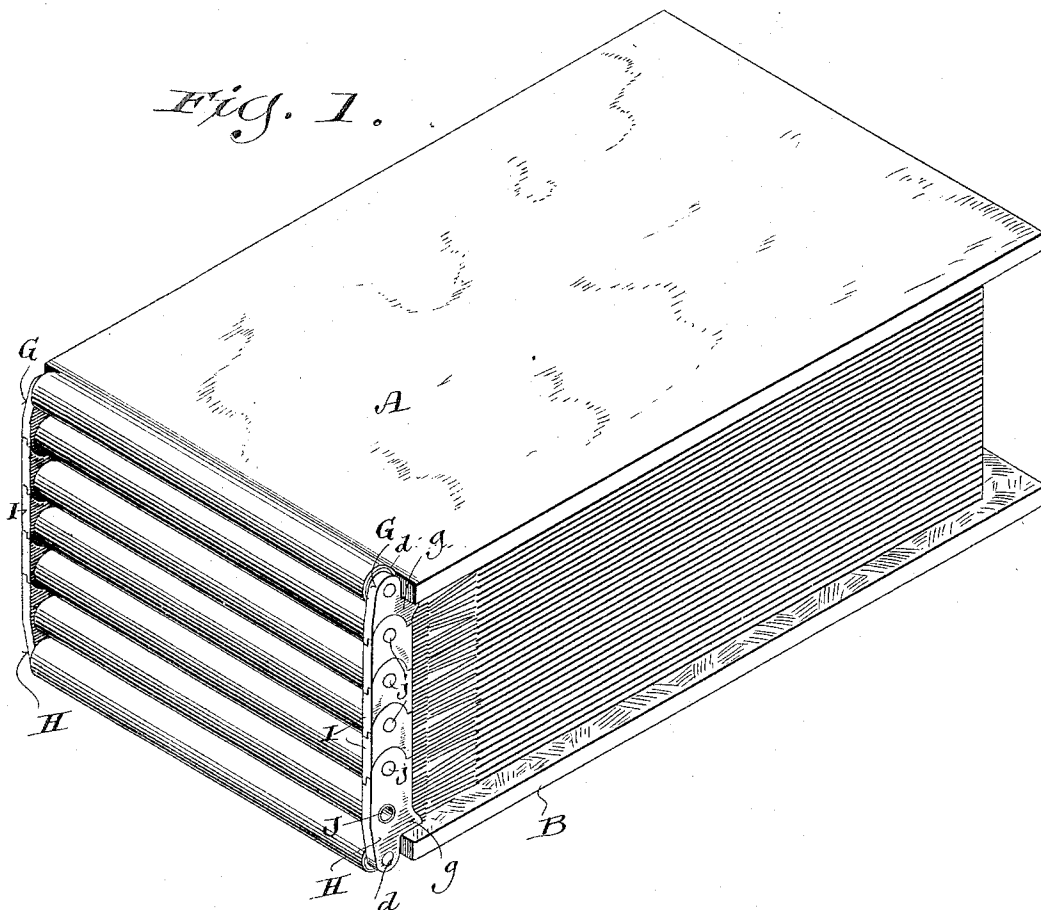
C. E. MOREHOUSE.
TEMPORARY BINDER.

(Application filed Apr. 15, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



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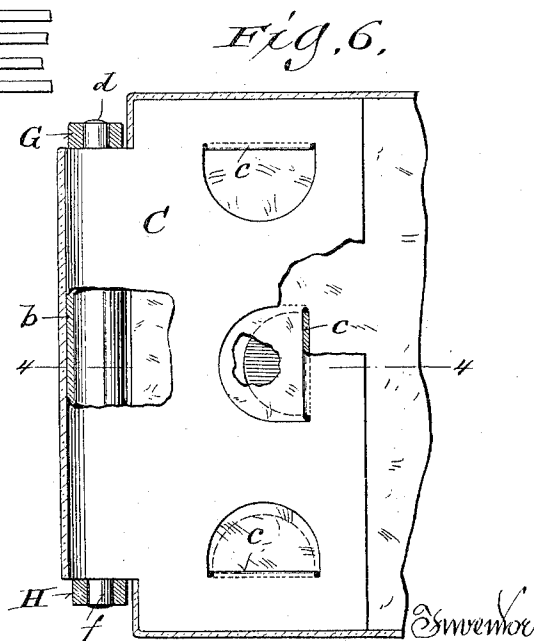
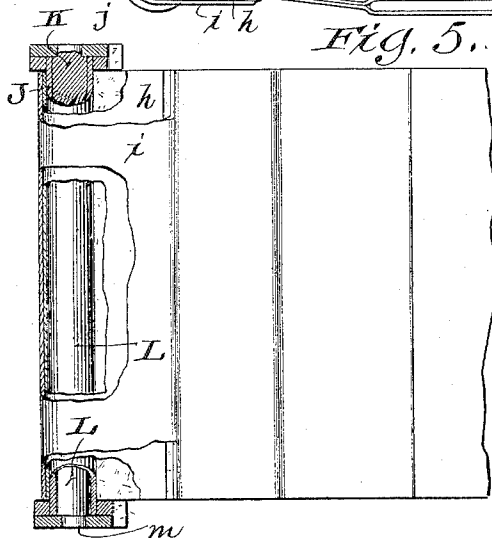
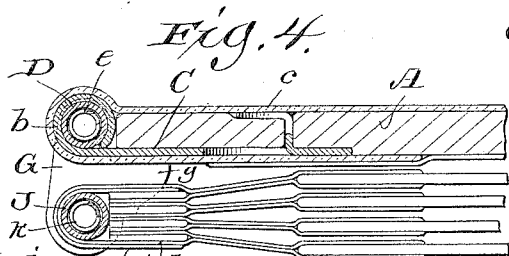
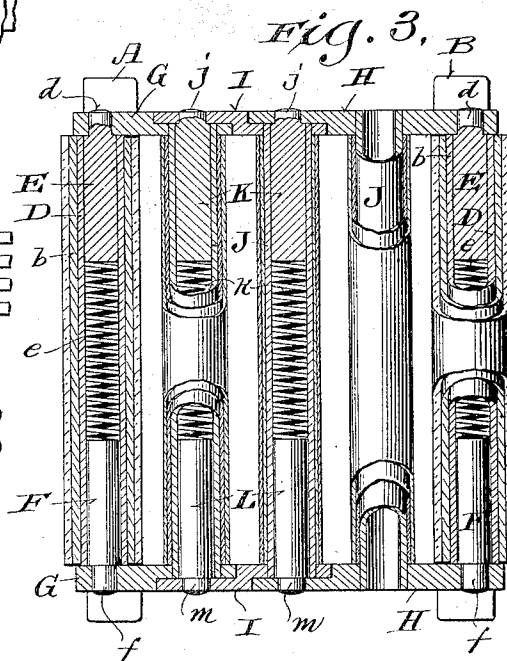
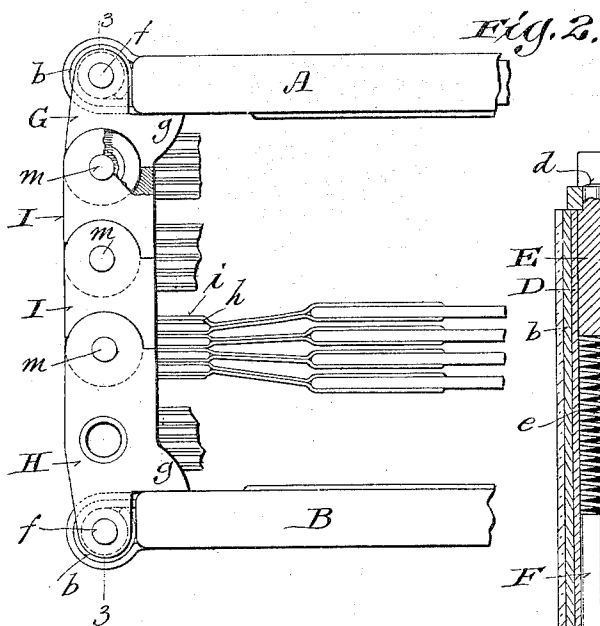
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

CYRUS E. MOREHOUSE, OF MILWAUKEE, WISCONSIN.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 642,244, dated January 30, 1900.

Application filed April 15, 1899. Serial No. 713,172. (No model.)

To all whom it may concern:

Be it known that I, CYRUS E. MOREHOUSE, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple economical temporary binder organized for the ready addition or removal of sections and flat opening. It therefore consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a perspective view of my improved temporary binder; Fig. 2, an edge view of a portion of the same; Fig. 3, a sectional view indicated by line 3 3 in the preceding figure; Fig. 4, a similar view indicated by line 4 4 in Fig. 6; and Figs. 5 and 6, detail elevations, partly in section, illustrating assembled parts of the binder.

Referring by letter to the drawings, A B represent the covers, between which the leaf-sections of my improved binder are held. Both covers have their inner corners cut out to form right-angle notches, and fast to each cover is a metal plate C, bent to form a rear sleeve b, crimped tight on a metal tube D, said plate being concealed by the leather or other finish material of the cover. As a matter of detail each metal plate may be made fast to the corresponding cover by tongues c, that are struck up from said plate, passed through a slit in said cover, and bent down on the latter, as shown in Fig. 4.

Fast in one end of each cover-tube D is a cylindrical plug E, having an outer reduced extremity d, constituting a pintle for a link-plate, hereinafter more particularly specified, and loose in said tube against a spiral spring e is another cylindrical plug F, having a reduced outer extremity f, constituting a pintle for another link-plate, hereinafter more particularly set forth.

The pintle-plugs of the covers A B engage link-plates G H, having inwardly-extending

lugs g in opposition to said covers when closed. Each of the aforesaid link-plates is recessed at its inner end to provide for flush lap-joint hinge connection with a similarly-recessed link-plate I, pertaining to a leaf-section of the binder, and it has been found convenient to have one leaf-section in permanent connection with the plates H aforesaid.

Each leaf-section is shown as comprising a metal tube J, fast at its ends in a pair of link-plates, although it would be just as practicable to substitute a rod for the tube in connection with the link-plates H, and looped on said tube is a pliable strip h of the stub pertaining to a group of leaves, this strip being lapped by a similar strip i of the same stub and the two united by pasting.

All the leaf-stub tubes excepting the one in permanent connection with link-plates H are fast on cylindrical plugs K, having reduced outer extremities j, constituting pintles for link-plates, and loose in these tubes against spiral springs k are other cylindrical plugs L, having reduced outer extremities m, that also constitute link-plate pintles.

From the foregoing it will be understood that each link-plate is detachably secured in place by the fixed and movable pintle-plugs pertaining to the adjacent leaf-section or cover of the binder. To detach either cover of the binder, the loose spring-controlled pintle-plug pertaining thereto is pushed in to clear a link-plate of the adjacent leaf-section, and by tilting the cover the link-plate is cleared by said plug, so that the pintle-plug rigid with said cover may be brought out of engagement with the other link-plate of said leaf-section, it being understood that in practice there is sufficient play between the parts to prevent binding when the operation just described takes place. To detach one leaf-section from another, the loose pintle-plug of the latter section is operated to clear one of the link-plates of the former section, after which the other link-plate of this first section is brought out of engagement with the pintle-plug that is rigid with the other leaf-section, there being sufficient play in practice Any loose pintle-plug may be pushed in

against spring resistance by a stiff wire, or a pointed lead-pencil will serve as an implement to accomplish the same result.

The outer extremities of the spring-controlled pintle-plugs being reduced, stop-shoulders are formed to limit outward movement of said plugs when engaged by link-plates, for which they form pivots.

The link-plates being in lap-joint connection with each other, their pivotal movement is automatically limited in opposite directions, and the leverage of one cover on link-plate lugs counteracted by resistance of the other cover to similar lugs will cause all the link-plates to aline at right angles to said covers when the binder is closed, whereby sagging is avoided.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A temporary binder having each cover thereof in detachable link connection with a leaf-section, the several leaf-sections in like connection with each other, and cover-opposing lugs extending inward from the outermost links.

2. A temporary binder having each cover thereof provided with a tube, a pintle-plug rigid with the tube, a spring contained in said tube, a loose pintle-plug in opposition to the spring, and leaf-section link-plates engageable with said plugs.

3. A temporary binder having each cover thereof provided with a tube, a pintle-plug rigid with the tube, a spring contained in said tube, a loose pintle-plug in opposition to the spring, leaf-section link-plates engageable with said plugs, and cover-opposing lugs extending inward from said link-plates.

4. A temporary binder having each cover thereof provided with a tube, a pintle-plug

rigid with the tube, a spring contained in said tube, a loose pintle-plug in opposition to the spring, leaf-sections comprising tubes, link-plates fast on the ends of each of these tubes and constructed to have movable lap-joint connection with like plates of another leaf-section, and rigid and spring-controlled loose pintle-plugs in each leaf-section tube engageable with said link-plates of another leaf-section, the pintle-plugs of the covers being engageable with the outermost link-plates.

5. A temporary binder having each cover thereof provided with a tube, a pintle-plug rigid with the tube, a spring contained in said tube, a loose pintle-plug in opposition to the spring, leaf-sections comprising tubes, link-plates fast on the ends of each of these tubes and constructed to have movable lap-joint connection with like plates of another leaf-section, rigid and spring-controlled loose pintle-plugs in each leaf-section tube engageable with said link-plates of another leaf-section, the pintle-plugs of the covers being engageable with the outermost link-plates, and cover-opposing lugs extending inward from said outermost link-plates.

6. A temporary binder comprising a stub opposite flexible stub-strips in lap-joint union formed into a loop back of and above and below the stub, and a pivotal back piece arranged between said stub and the two-ply loop.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CYRUS E. MOREHOUSE.

Witnesses:

N. E. OLIPHANT,
B. C. ROLOFF.