No. 620,159. Patented Feb. 28, 1899.

W. S. MENDENHALL.

TEMPORARY BINDER.

(Application filed Jan. 29, 1898.)

(No Model.)

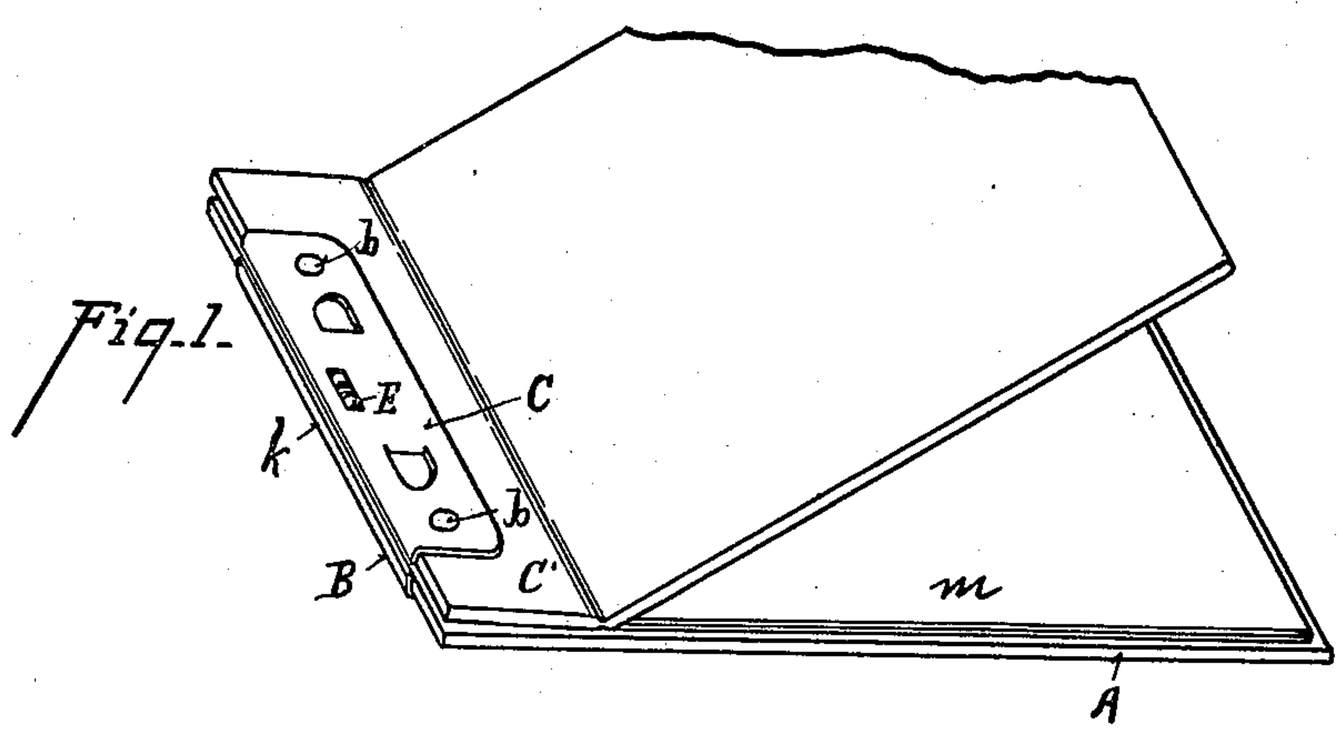

Fig. 1.

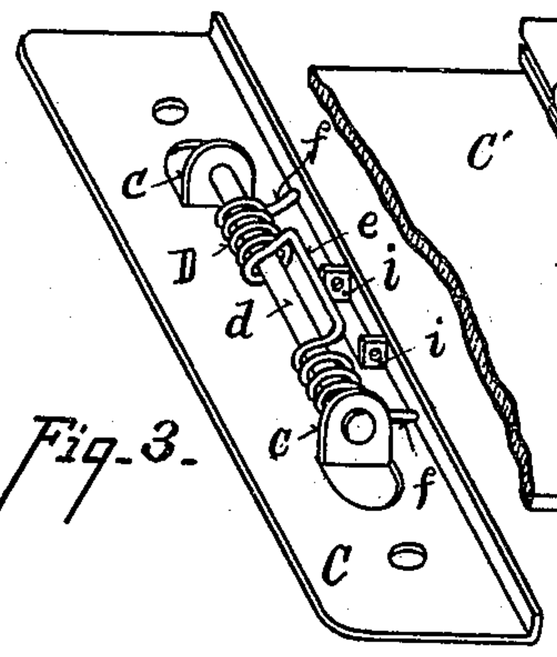

Fig. 3.

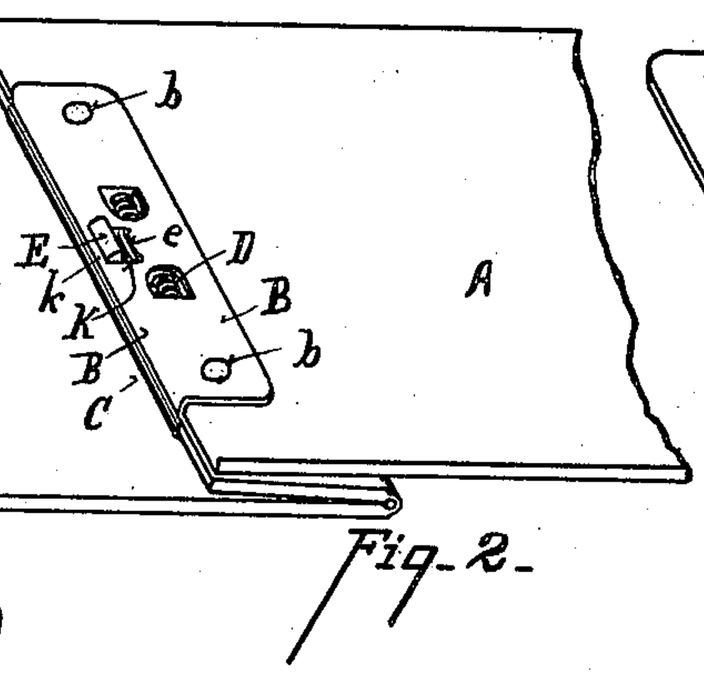

Fig. 2.

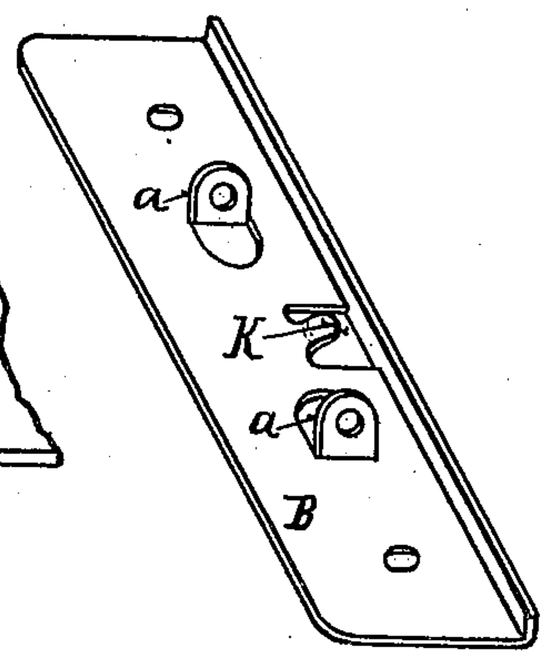

Fig. 4.

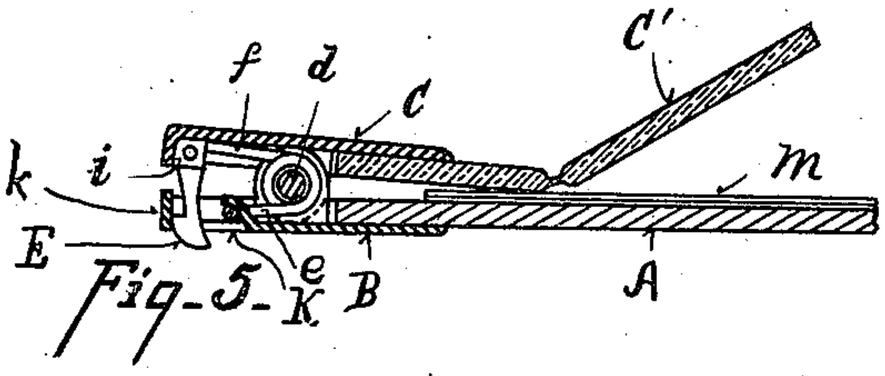

Fig. 5.

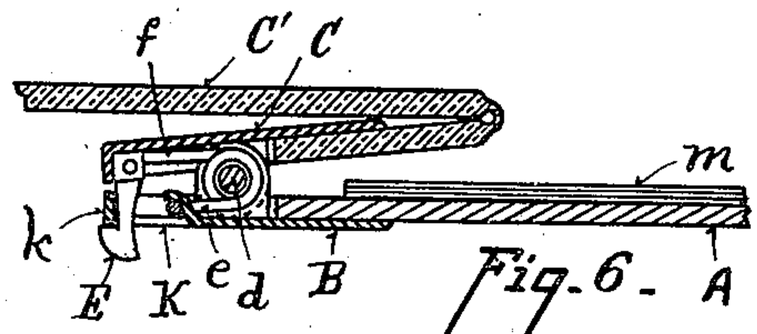

Fig. 6.

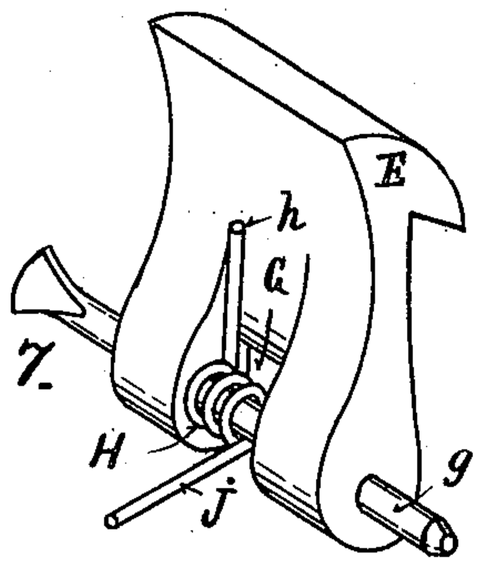

Fig. 7.

Witnesses
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UNITED STATES PATENT OFFICE.

WALTER S. MENDENHALL, OF NORWOOD, OHIO.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 620,159, dated February 28, 1899.

Application filed January 29, 1898. Serial No. 668,483. (No model.)

To all whom it may concern:

Be it known that I, WALTER S. MENDENHALL, residing at Norwood, 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.

The object of my invention is to provide a simple and convenient temporary binder; and the invention consists in the construction and combination of devices, as hereinafter described and claimed.

The features of my invention are more fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improvement, showing the sheets clamped between the covers. Fig. 2 is a perspective of devices shown in Fig. 1, viewed from the under side and with the flexible cover thrown back. Fig. 3 is a perspective view of one of the hinge-supporting plates. Fig. 4 is a perspective view of the other hinge-supporting plate. Fig. 5 is a central longitudinal section of Fig. 1. Fig. 6 is a similar view showing the clamps in the open position and the flexible cover thrown back. Fig. 7 is a perspective view of the spring-catch for holding the clamp-covers open.

A represents an ordinary stiff book-cover.

B represents the hinge-supporting plate secured to the cover A. This cover is preferable notched or recessed out, so as to span the ears *a*.

b represents rivets for securing the cover A to plate B.

C represents the upper hinge-supporting plate. It is attached to the top cover C′ and provided with ears *c*, which engage over the hinge-rod *d*. The ears *c* on the upper plate engage over the hinge-rod *d* either outside or inside of ears *a* of the lower plate, and the rod *d* forms the pivot on which the plates B and C turn.

In order to clamp the two covers together, I provide a compression-spring D, preferably coiled around rod *d* and provided with a central loop *e* with terminal limbs *f*, lying on the face of plate C. Plate B presses upon the loop *e* and forms the compression which clamps the binding portion of the covers together, as shown in Fig. 5.

It is desirable to hold the covers apart in a fixed position, so as to readily insert or remove the sheets. This is accomplished in the following manner:

E represents a catch hinged to the under side of the top plate by means of ears *i*, in which the center pin *g* journals. A compression-spring is applied to the catch E, preferably in the following manner:

G represents a bifurcation at the rear edge of said catch, forming an opening to receive spring H as it is coiled around the center pin *g*. One of the terminal limbs *h* of the spring rests against the face of catch E and the other terminal limb *j* rests against the face of plate C. This spring serves to force the catch normally outward. The lower plate B is pierced with an orifice K, through which catch E passes, and its normal position is out of engagement with the rear edge *k* of the bottom plate B. When it is desired to remove the compression of spring D, the top cover C′ is turned back upon the upper clamping-strip and the hinged plates B C are rocked apart, compressing the spring D until the catch E has engaged over the edge *k* of the bottom plate B, as shown in Fig. 6. This catch is forced outward by its spring H, causing the automatic engagement of catch E. Thus the binding or clamping portion of the upper cover C′ is held open and away from contact with the bottom cover, allowing the sheets *m* to be readily inserted or removed. When it is desired to clamp the parts to secure the sheets in position between the covers, catch E is tripped and the spring D draws the covers together again and clamps the sheets securely between them.

Having described my invention, what I claim is—

1. In a temporary binder, the combination of top and bottom clamping-plates respectively attached to the binder-covers, said plates being pivotally connected to each other intermediate of their front and rear edges by means of a hinge-rod, a spring wrapped around said rod and adapted to strain the rear edges of the plates apart, a catch and a locking-orifice therefor formed respectively in said plates

in rear of the hinge-rod, whereby the catch engages over the rear edge of the opposite plate through said orifice, when the rear edges of said plates are rocked toward each other on their central hinge-rod, substantially as described.

2. In a temporary binder, the combination of top and a bottom clamping-plates attached respectively to the binder-covers, ears formed on the middle meeting faces of said clamping-plates, a hinge-rod passed through said ears, a spring coiled around said rod and engaging with said plates in rear of the hinge-rod, a catch pivoted upon one plate back of the hinge-rod and a locking-orifice formed adjacent to said catch in the coacting plate, substantially as described.

In testimony whereof I have hereunto set my hand.

WALTER S. MENDENHALL.

Witnesses:
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