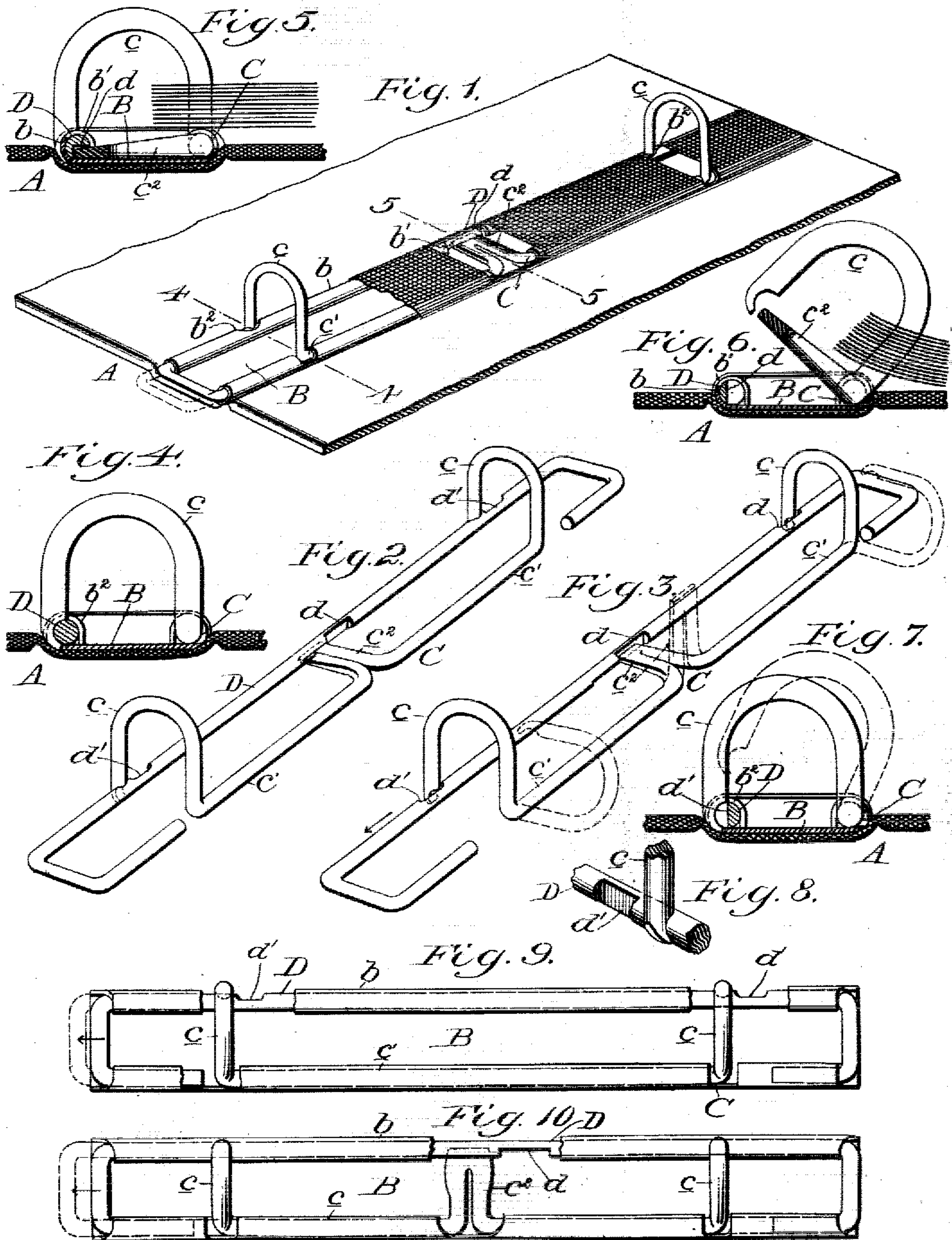


No. 812,121.

PATENTED FEB. 6, 1906.

J. J. EDWARDS.
TEMPORARY BINDER.
APPLICATION FILED MAR. 16, 1905.



Witnesses
Wm. Bridgman
Frank D. Kent

Inventor
John J. Edwards
By Julian C. Howell
Attorney at Law

UNITED STATES PATENT OFFICE.

JOHN J. EDWARDS, OF ANN ARBOR, MICHIGAN.

TEMPORARY BINDER.

No. 812,121.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed March 16, 1905. Serial No. 250,483.

To all whom it may concern:

Be it known that I, JOHN J. EDWARDS, a citizen of the United States, residing at Ann Arbor, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to temporary binders for holding blank or other sheets of paper or cards and for filing letters, bills, receipts, &c., and more particularly to that class of devices in which hinged binding wires or rods with laterally-extending hooks are used for filing the sheets, cards, &c., by inserting the hooks through preferably suitably spaced perforations in the sheets, cards, or other matter to be filed.

The main object of my invention is to provide a simple and efficient temporary binder with means for positively locking and retaining the hooks thereof in closed position, while permitting them to be easily opened and again returned to closed position and firmly locked without liability to open accidentally in handling.

The invention will first be hereinafter more fully described with reference to the accompanying drawings, which form a part of this specification, and then pointed out in the claims at the end of the description.

In said drawings, Figure 1 is a perspective view of a temporary binder embodying my invention, showing the same applied to a book-cover having its sides thrown open and partly broken away. Fig. 2 is a perspective view of the binding-wire and locking device therefor detached from the cover, showing the parts in the position they occupy when the hooks are closed upon the holder and locked. Fig. 3 is a similar perspective view showing the parts in the position they occupy when the binding-wire is unlocked, also showing in dotted lines the position of the hooks and binding-wire when the hooks are open. Fig. 4 is a cross-section taken on the line IV IV of Fig. 1. Fig. 5 is a cross-section taken on the line V V of Fig. 1. Fig. 6 is a cross-section showing the hook unlocked and open. Fig. 7 is a detail sectional view showing in full and dotted lines the hook in closed and open positions, respectively. Fig. 8 is a de-

tail perspective view of a fragment of the device, illustrating the locking connection between the hooks and locking-slide. Fig. 9 is a plan view of a modification of the invention, the intermediate lock being omitted. Fig. 10 is a plan view of another modification in which the locking connections between the locking-slide and hooks are omitted.

Referring to the drawings, the letter A denotes an ordinary book-cover with which my binder may be conveniently associated in actual use, although it may be used with any other suitable support or independently, according to the desires of the manufacturer or user. For convenient attachment to the back of the cover of a book or other suitable support and for securing the binding-wire and locking device together properly assembled for practical use I preferably employ a back plate B, which, as illustrated in Fig. 1, may be attached to the inside of the back of the cover A by means of strips of cloth or other suitable material glued over it and to the book-back. This back plate B has its opposite edges folded or bent over upon itself longitudinally, so as to overlie and form a pivot-seat for the binding-wire C along one edge thereof and a slideway for a longitudinally-movable locking device D along the other edge. The binding-wire consists, preferably, of a pair of hooks *c*, rigid with a main body portion *c'*, having a lateral projection, loop, or tongue *c''* for engagement with a locking member D, by which the hooks may be positively locked and retained in closed position and readily disengaged and opened for the insertion or removal of a sheet or sheets, letter or letters, or other matter to be placed on or taken off the binder. The locking device D preferably consists of a rod or bar slidably fitted in the fold or overturned edge *b* of the back plate B, said folded edge having a centrally-disposed recess *b'* and notches *b'' b''* near its opposite ends to receive the tongue and hooks, respectively, of the binding-wire when the hooks are closed upon the back plate or holder. The locking-slide D has also a recess *d* on one side thereof and notches *d'* *d'* on the opposite side thereof near its opposite ends, which when brought into alinement with the recess and notches of the holder will prevent contact of the hooks and tongues with the slide when the hooks are closed upon the holder. In the latter position the locking-slide may be moved longi-

tudinally sufficiently to bring the recess and notches therein out of alinement with the recess and notches of the holder, and the intermediate portion of the slide will overlies and hold down the tongue or projection c^2 , so as to prevent the hinged binding-wire from turning and releasing the hooks. Auxiliary locking devices are provided by notching or curving the ends of the hooks opposite the notches b^2 of the holder, so that when the slide is moved to bring the recess and notches therein out of alinement with the recess and notches of the holder the body portion of the slide will engage the curved or recessed ends of the hooks and lock the same in closed position. They can be released, however, by moving the slide in the opposite direction.

The locking member or slide D may be conveniently held against rotation by providing return-bends at the ends thereof fitted to slide back and forth in ways provided therefor by the overturned or folded edge of the back plate or in any other suitable manner, so as to maintain the same in proper position for engagement and disengagement with the tongue and hooks of the binding-wire.

In the modification shown in Fig. 9 the intermediate locking device provided by the tongue on the binding-wire for engagement with the locking-slide is omitted, provision for locking the binding-wire being made by engagement of the locking member with the curved or recessed ends of the hooks only.

In the modification shown in Fig. 10 the auxiliary locking connections between the ends of the hooks and the slide are omitted, and the binding-wire is adapted to be locked and firmly retained in place when the hooks are closed by means of the intermediate projection or tongue on the binding-wire underlying the locking-slide.

In assembling the parts the binding-wire is properly positioned along one edge of the back plate or holder and the edges of the latter between the hooks and the projection or tongue on the binding-wire are bent over, so as to embrace and hold the binding-wire in pivotal or hinged relation thereto. The locking member or slide is then placed along the opposite edge of the back plate, and the edge of the latter is bent over so as to embrace and secure the locking-slide in the slideway thus formed, the holder being suitably notched and recessed to permit the ends of the hooks to pass into position for engagement with the locking member and to receive the projection or tongue on the binding-wire, as previously described. The notches in the edge of the back plate which receive the depending ends of the hooks serve also as guards therefor and prevent the same from being bent sideways or out of alinement with said notches. When the slide and binding-wire have been properly positioned and secured in the folds

of the back plate, the latter may then be attached in any suitable manner to the back of a book-cover or other support, or the said back plate, combined with the hinged binder and locking member, may be used independently of any support therefor, if desired to use the same without a cover.

In operation the parts are assembled and locked in the position indicated in Figs. 1 and 2 by engagement of the locking-slide with the recessed ends of the hook and the intermediate tongue or projection. When the locking member is moved to the position shown in Fig. 3, (the hooks of the binding-wire being opposite the notches or recesses in the locking member and the tongue also opposite the recess therein,) the hooks may be raised to the position shown in dotted lines in Figs. 3 and 7 and in full lines in Fig. 6. In this position blank sheets, cards, or other matter to be filed can be slipped upon the hooks or in a similar manner removed therefrom. By a reverse movement of the parts the hooks are again brought into the position shown in Figs. 1 and 2 and locked. One of the bent ends of the locking member may be conveniently used as a handle for pulling and pushing the locking-slide into or out of locking position, or any other suitable means may be employed for this purpose, as may be desired or found to be most convenient in practical use.

While I preferably employ a holder consisting of an oblong metallic plate having its sides or longitudinal edges folded and serving as a means for rotatively securing thereto along one edge thereof a binding-wire provided with hooks having notched or bent ends and arranged to swing transversely of the holder to its opposite side or edge for engagement with a locking-slide movable lengthwise of the holder in a fold or folds thereof for locking said hooks in closed position, I do not desire to be limited to the exact construction and arrangement of parts illustrated and specifically described, for it is obvious that the hooks may be retained in closed position by other means and without the interposition of a locking-slide for engaging their crooked or notched ends, and the holder may also be differently constructed and of any suitable material and its edges differently folded, and various other changes may be made in the details of construction without departing from the spirit and scope of my invention.

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

1. A temporary or loose-leaf binder comprising a holder adapted for attachment to the back of a book-cover, a binding-wire hinged along one margin of the holder and provided with hooks extending across the body of the holder and having end portions

constructed to engage with retaining means along the opposite margin of the holder for securing the hooks in closed position, and means along the latter margin adapted to engage and lock said end portions of the hooks.

2. A temporary or loose-leaf binder comprising a holder adapted for attachment to the back of a book-cover, a binding-wire having an intermediate portion rotatively secured to said holder along one margin thereof and rigid hooks at opposite extremities of said intermediate portion extending transversely of the holder to the opposite margin thereof, and means along the latter margin constructed to engage with the ends of said hooks for locking and holding them in closed position.

3. A temporary or loose-leaf binder comprising a holder adapted for attachment to the back of a book-cover, a binding-wire having an intermediate portion hinged along one margin of said holder and provided with rigid hooks and a projection extending transversely of the holder to the opposite margin thereof, and a locking member slidably secured along said opposite margin adapted to engage said projection and positively lock and hold the hooks in closed position.

4. A temporary binder comprising a suitable holder, a hinged binding-wire having hooks, a projection extending from said binding-wire transversely of the holder in the same direction as the hooks, and a triple locking device consisting of a sliding member having notches or recesses therein to receive said hooks and tongue and adapted to be slid into engagement with said hooks and tongue and thereby firmly lock the binding-wire with the hooks in closed position, substantially as described.

5. A temporary binder for holding sheets and the like, comprising a holder adapted for attachment to the back of a book-cover, a binding-wire hinged longitudinally on said holder along one margin thereof and having lateral hooks extending transversely of the holder to its opposite margin for insertion through the sheets, and means adapted to engage said hooks for positively locking said wire with its hooks closed on the holder, substantially as described.

6. A temporary binder for holding sheets and the like, comprising a back plate or holder adapted for attachment to the back of a book-cover, a binding-wire hinged longitudinally along one margin of the holder and having lateral hooks extending transversely of the holder to its opposite margin for insertion through the sheets, and manipulative means on the latter margin of the back plate adapted to engage said hooks for positively locking said wire in position with its hooks closed or turned down on the back plate and for releasing said wire to permit turning thereof to

open or raise the hooks and permit attachment or removal of the sheets, substantially as described.

7. A temporary binder comprising a back plate or holder, a binding-wire hinged longitudinally thereto having lateral hooks for insertion through the sheets and having a rigid lateral tongue, and a manipulative device on the holder adapted to engage said hooks and tongue to hold the hooks closed down on the holder and to release said hooks and tongue to permit opening or raising of the hooks, substantially as described.

8. A temporary binder comprising a back plate, a binding-wire having a hook and a locking member integral therewith, and means in the back plate for engaging said hook and locking member to lock the binding-wire in normal closed position, substantially as described.

9. A temporary binder comprising a back plate, a binding-wire having a portion pivotally secured in the back plate and provided with a hook, a tongue on the pivot portion, and means in the back plate adapted to engage said hook and tongue to prevent pivotal movement of the binding-wire, substantially as described.

10. A temporary binder comprising a back plate, a binding-wire having hooks at opposite ends and an intermediate pivot portion secured in the back plate and having a loop therein, a locking-slide in the back plate adapted to engage said hooks and loop to prevent pivotal movement of the binding-wire, and means for manipulating said slide, substantially as described.

11. A temporary binder comprising a back plate having a fold extending along one edge thereof forming a pivot-seat, a binding-wire having a hook and locking projection and a pivot portion secured in said seat, and means in the back plate cooperating with said projection to prevent pivotal movement of the binding-wire, substantially as described.

12. A temporary binder comprising a back plate, having its opposite edges folded, a binding-wire having a pivot portion secured in one of said folds and provided with a hook or hooks, a projection on the pivot portion, and a locking-slide secured in the other fold and movable along the back plate to engage said projection and prevent pivotal movement of the binding-wire, substantially as described.

13. A temporary binder comprising a back plate having its edges bent over upon itself longitudinally thereof so as to form a pivot-seat for the binding-wire and a slideway along the opposite edge thereof for a locking-slide, a binding-wire having a centrally-disposed projection and hooks at its ends rotatively supported in said pivot-seat, a slidable rod fitted in said slideway having notches or recesses therein confronting the ends of said

hooks and projection when the hooks are closed upon the back plate, and notches or recesses in the edge of the back plate to receive the ends of said hooks, substantially as described.

14. A temporary binder for holding sheets of paper and the like, comprising a suitable holder independent of but adapted for attachment to the back of a book cover or support, and a binding-wire rotatively secured along one side of said holder and provided with hooks arranged to swing transversely of the holder and having their ends constructed to engage with retaining means at the opposite side or margin of the holder, together with means at the opposite side of the holder for engaging the ends of said hooks so as to retain them in closed position.

15. A temporary binder for holding sheets of paper and the like, comprising a holder independent of but adapted for attachment to a suitable support and consisting of an oblong plate having its opposite sides turned over upon itself or folded, a binding-wire rotatively secured in one of said folds and provided with hooks arranged to swing transversely of the holder to the opposite fold; said hooks having their ends constructed to coact with suitable retaining means on the holder, and means at the latter fold or opposite side of the holder for engaging the ends of said hooks and retaining them in closed position.

16. A temporary or loose-leaf binder comprising an oblong holder having spaced openings or notches therein along one of its longer margins, a binding-wire hinged to said holder along its opposite margin, curved hooks extending

tending from said binding-wire transversely of the holder having their ends adapted to enter said openings or notches, and means for engaging the ends of the hooks entered in said openings or notches to prevent the withdrawal thereof, substantially as described.

17. A temporary or loose-leaf binder comprising an oblong holder adapted for attachment to the back of a book-cover and having openings or notches along one margin thereof to receive the ends of hooks entered therein, a binding-wire rotatively secured on said holder and having a hook or hooks extending transversely thereof adapted to enter said openings or notches, said hooks having end portions constructed to engage retaining means within the holder, together with means for engaging said end portions and preventing the withdrawal of the hooks.

18. A temporary or loose-leaf binder comprising an oblong holder adapted for attachment to the back of a book-cover and having its longer marginal portions turned back upon itself or folded, and also having openings or notches along one of said longer margins, a binding-wire rotatively secured to said holder in one of said folds and having hooks arranged to extend across and enter the openings in the opposite fold, and means for engaging the ends of the hooks entering said openings to prevent the withdrawal thereof.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN J. EDWARDS.

Witnesses:

CHAS. E. RIORDAN,
OSGOOD H. DOWELL.