

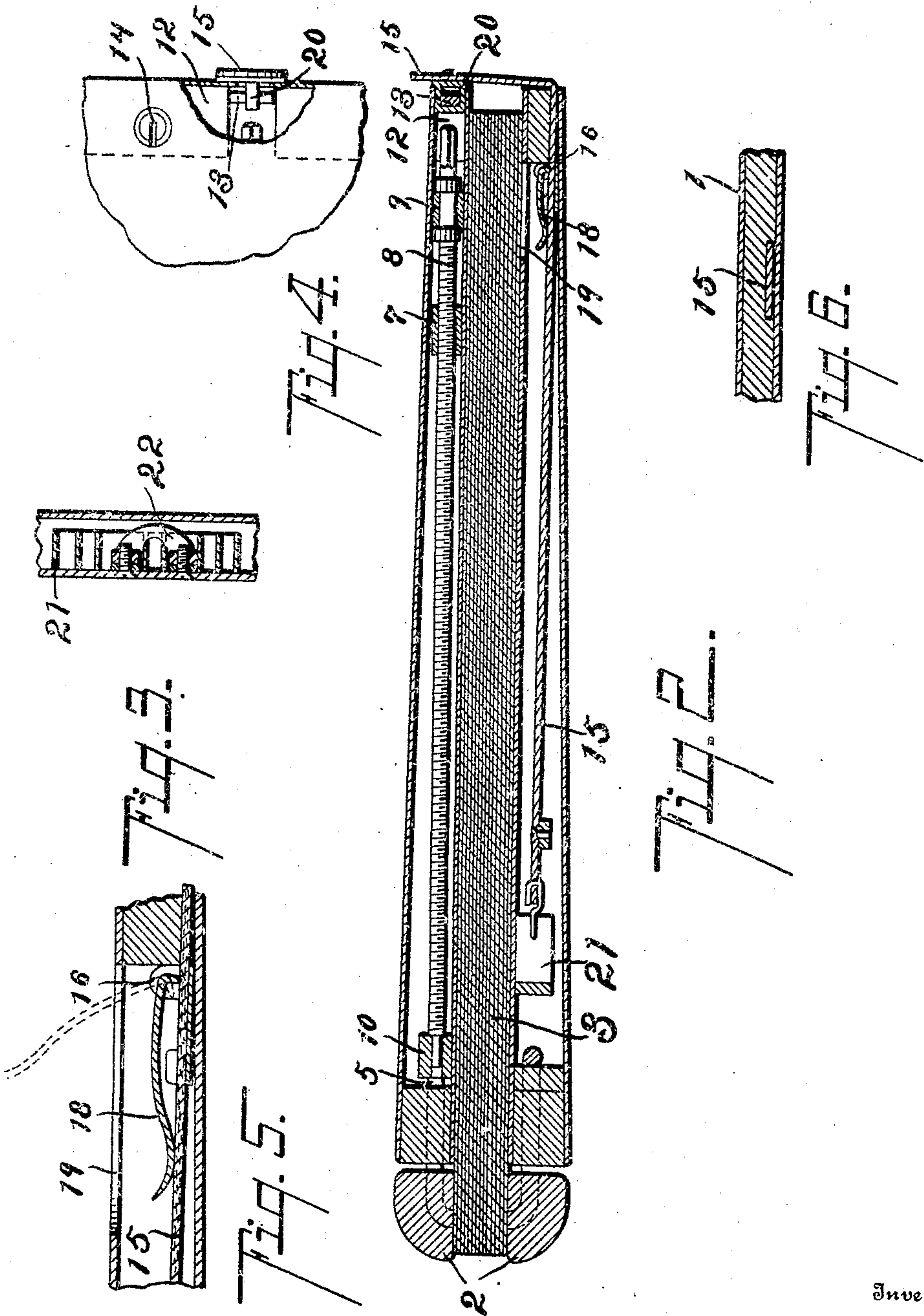
G. R. FARLEY.
BINDER.

APPLICATION FILED JAN. 18, 1908.

918,027.

Patented Apr. 13, 1909.

2 SHEETS—SHEET 2.



Witnesses
Lulu Greenfield
China Woodruff

By

George R. Farley
Chappell & Co.

Inventor

Attorneys

UNITED STATES PATENT OFFICE.

GEORGE R. FARLEY, OF KALAMAZOO, MICHIGAN, ASSIGNOR TO HARRY F. BUSHONG, OF KALAMAZOO, MICHIGAN.

BINDER.

No. 918,027.

Specification of Letters Patent.

Patented April 13, 1909.

Application filed January 18, 1908. Serial No. 411,480.

To all whom it may concern:

Be it known that I, GEORGE R. FARLEY, a citizen of the United States, residing at Kalamazoo, Michigan, have invented certain new and useful Improvements in Binders, of which the following is a specification.

This invention relates to improvements in binders.

The main objects of this invention are: first: to provide in a binder an improved locking mechanism whereby the removal or inspection of the leaves is prevented; second to provide in a temporary binder an improved locking mechanism adapted to accomplish the above result, which does not in any way interfere with the convenience of the binder in use.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which:

Figure 1 is a detail inside view of a structure embodying the features of my invention, both being shown open, the leaves being shown in an upright position so as not to obscure any of the mechanism, parts of the covers being broken away to show the arrangement of the mechanism therein; Fig. 2 is a longitudinal section of the structure shown in Fig. 1, in its closed and locked position, the same being taken on a line corresponding to line 2—2 of Fig. 1; Fig. 3 is an enlarged detail section taken on a line corresponding to line 3—3 of Fig. 1, showing the details of the retracting spring for securing the strap; Fig. 4 is a detail showing the arrangement of the escutcheon for the lock on the cover; Fig. 5 is an enlarged detail of the adjustable stop for the cover-connecting strap, taken on a line corresponding to line 2—2 of Fig. 1; and Fig. 6 is an enlarged detail section taken on a line corresponding to line 6—6 of Fig. 1, showing details of the arrangement of the strap within the cover.

In the drawing, the sectional views are

taken looking in the direction of the little arrows at the ends of the section lines, and similar numerals of reference refer to similar parts throughout the several views.

Referring to the drawing: I have shown my invention as embodied in a temporary binder substantially such as is illustrated in U. S. Letters Patent to Harry F. Bushong, No. 851,276, dated April 23, 1907, as that is the structure to which I have practically applied my invention. I desire to remark, however, and it is obvious to one skilled in the art, that it might be adapted and applied to various other structures; and I desire to be understood as not limiting myself to the structure or particular embodiment of my invention which I have here shown for illustrative purposes.

The covers 1 are preferably chambered to receive the binder adjusting and locking mechanism. The clamping-bar 2 for the sheets or leaves as 3 are preferably secured to the inner ends of the covers by means of suitable hinges as 4. As the details of these clamping-bars and their connections to the covers form no part of this invention, they are not illustrated herein. The binding-cords 5 are preferably formed of one piece, being arranged through the inner ends of the covers and clamping-bars over the bearing-block 6 in one cover and secured to the cross-bar 7 in the chamber of the other cover. This cross-bar is adjusted by means of the screw 8 which is mounted in suitable bearings 9 and 10 in the cover, the screw being adapted to be manipulated from without the cover, which is provided with a key-opening, as 11, as clearly appears from the drawing. These features of the binder which I have shown more or less in conventional form, are, as stated, preferably those illustrated in the patent hereinbefore referred to.

Within the cover containing the adjusting mechanism I arrange a lock as 12, the bolt 13 of which is adapted when shot to close the key-opening 11, thereby preventing the manipulation of the binder adjusting mechanism. The escutcheon 14 of the lock is arranged so that it can be manipulated from the outside of the binder. The connecting strap 15 for securing the covers together is preferably arranged through a slot in the end of the cover (see Fig. 6), extending into the

chamber thereof. Arranged upon the strap, within the chamber, is an adjustable stop 16, the stop being preferably in the form of a clasp buckle. By adjusting this stop on the strap, the portion of the strap which may be withdrawn from the cover, is regulated. The stop is provided with a tongue member 17, the finger-piece 18 of which is adapted to be manipulated through the opening 19 in the inner wall of the cover. When the binder is closed, this opening 19 is covered by the leaves, so that it is impossible to manipulate the stop therethrough.

The strap is provided with a bolt-engaging member 20 adapted to be inserted in the key-opening 11 of the adjusting mechanism. This bolt engaging member is preferably in the form of an eye adapted to be inserted into the lock casing and receive the bolt, as is illustrated in Fig. 4. This bolt-engaging member is preferably so designed as to completely close the opening 11 when in engagement with the bolt, thus serving as a further guard to prevent the manipulation of the binder. The strap is retracted into the cover when it is disengaged from the lock, by means of a suitable spring, as 21, one end of which is secured to the inner end of the strap and the other to the cover by means of a block 22. By this arrangement of parts, when the book is closed and the connecting strap for the covers is engaged, the adjusting of the binding mechanism or the inspection of the sheets or leaves is effectively prevented. By adjustment of the stop the cover-securing strap may be adjusted according to the adjustment of the binding mechanism. As soon as the strap is released, it is retracted into the cover so that it is entirely out of the way and does not detract from the appearance of the book nor in any wise interfere with its convenient use.

I have, as previously stated, illustrated and described my invention in the form in which I have embodied the same in practical use. I am aware, however, that it is capable of very great variation in structural details without departing from my invention.

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

1. In a temporary binder or loose sheet holder, the combination with the chambered covers, one of said covers having a key-opening at the outer end thereof, of a binding mechanism; a key-operated adjusting means therefor, arranged in said cover, having said key-opening; a lock arranged in said cover so that its bolt when shot closes the key-opening thereof; a strap arranged in the chamber of the other cover to project through a slot in the end thereof; a bolt-engaging member secured to said strap, adapted to be inserted in said key-opening; an adjustable stop for

said strap arranged within said cover, said cover being provided with an opening in its inner wall through which said stop may be adjusted; and a coiled spring arranged within said cover, with one end secured to the cover and the other to said strap, for the purpose specified.

2. In a temporary binder or loose sheet holder, the combination with the chambered covers, one of said covers having a key-opening at the outer end thereof, of a binding mechanism; a key-operated adjusting means therefor, arranged in said cover having said key-opening; a lock arranged in said cover so that its bolt when shot closes the key-opening thereof; a strap arranged in the chamber of the other cover to project through a slot in the end thereof; a bolt-engaging member secured to said strap, adapted to be inserted in said key-opening; an adjustable stop for said strap, arranged within said cover; and a coiled spring arranged within said cover, with one end secured to the cover and the other to said strap, for the purpose specified.

3. In a temporary binder or loose sheet holder, the combination with the chambered covers, one of said covers having a key-opening at the outer end thereof, of a binding mechanism; a key-operated adjusting means therefor, arranged in said cover having said key-opening; a lock arranged in said cover so that its bolt when shot closes the key-opening thereof; a strap arranged in the chamber of the other cover to project through a slot in the end thereof; a bolt-engaging member secured to said strap, adapted to be inserted in said key-opening; an adjustable stop for said strap arranged within said cover, said cover being provided with an opening in its inner wall through which said stop may be adjusted; and a retracting spring for said strap, arranged within said cover, for the purpose specified.

4. In a temporary binder or loose sheet holder, the combination with the chambered covers, one of said covers having a key-opening at the outer end thereof, of a binding mechanism; a key-operated adjusting means therefor, arranged in said cover having said key-opening; a lock arranged in said cover so that its bolt when shot closes the key-opening thereof; a strap arranged in the chamber of the other cover to project through a slot in the end thereof; a bolt-engaging member secured to said strap, adapted to be inserted in said key-opening; an adjustable stop for said strap, arranged within said cover; and a retracting spring for said strap, arranged within said cover, for the purpose specified.

5. In a temporary binder or loose sheet holder, the combination of the chambered covers, one of said covers having a key-opening at the outer end thereof and the other a

strap-receiving slot; a binding mechanism; a key-operated adjusting means therefor, arranged in said cover having the said key-opening; a lock carried by said cover; a strap arranged in the other cover to project through said slot thereof; a bolt-engaging member secured to said strap, adapted to be inserted in said key-opening to close the same; an adjustable stop for said strap arranged within the cover; and a retracting spring for said strap, arranged within the said cover.

6. In a temporary binder or loose sheet holder, the combination of the chambered covers, one of said covers having a key-opening at the outer end thereof and the other a strap-receiving slot; a binding mechanism; a key-operated adjusting means therefor, arranged in said cover having the said key-opening; a lock carried by the said cover; a strap arranged in the other cover to project through said slot thereof; a bolt-engaging member secured to said strap; an adjustable stop for said strap arranged within the cover; and a retracting spring for said strap, arranged within the said cover.

7. In a temporary binder or loose sheet holder the combination of the chambered covers; an adjustable leaf or sheet-clamping means; an adjusting means therefor, carried by one of said covers; a lock carried by the said cover by which said adjusting means is carried; a connecting strap for said covers; means for adjusting said strap, arranged to be manipulated only when the binder is open; a retracting spring for said strap; and a bolt-engaging member secured to said strap, said bolt-engaging member being adapted, when engaged with the bolt, to prevent the manipulation of the said binder adjusting means.

8. In a temporary binder or loose sheet holder, the combination of the chambered covers; an adjustable leaf or sheet clamping means; an adjusting means therefor, carried by one of said covers; a lock carried by the said cover by which said adjusting means is carried; a connecting strap for said covers; means for adjusting said strap, arranged to be manipulated only when the binder is open; a retracting spring for said strap; and a bolt-engaging member secured to said strap.

9. In a temporary binder or loose sheet holder, the combination of the chambered covers; an adjustable leaf or sheet clamping means; an adjusting means therefor, carried by one of said covers; a lock carried by the said cover by which said adjusting means is carried; a connecting strap for said covers; a retracting spring for said strap; and a bolt-engaging member secured to said strap, said bolt-engaging member being adapted, when engaged with the bolt, to prevent the manipulation of the said binder adjusting means.

10. In a temporary binder or loose sheet

holder the combination of the chambered covers; an adjustable leaf or sheet clamping means; an adjusting means therefor, carried by one of said covers; a lock carried by the said cover by which said adjusting means is carried; a connecting strap for said covers; a retracting spring for said strap; and a bolt-engaging member secured to said strap.

11. In a binder, the combination of the covers; adjustable leaf or sheet-clamping means; a strap for securing the said covers in their closed position; means for adjusting said strap, arranged so that it may be adjusted only when the binder is open; a lock for securing the said strap to the other cover, adapted also to prevent the adjustment of said leaf or sheet-clamping means; and means for retracting the said strap.

12. In a binder, the combination of the covers; adjustable leaf or sheet-clamping means; a strap for securing the said covers in their closed position; a lock for securing the said strap to the other cover, adapted also to prevent the adjustment of said leaf or sheet-clamping means; and means for retracting the said strap.

13. In a binder, the combination of the covers; adjustable leaf or sheet clamping means; a strap for securing the said covers in their closed position; means for adjusting said strap, arranged so that it may be adjusted only when the binder is open; a lock for securing the said strap to the other cover; and means for retracting the said strap.

14. In a binder, the combination of the covers; adjustable leaf or sheet clamping means; a strap for securing said covers in their closed position; means for locking said leaf clamping means whereby its adjustment is prevented and locking said strap to the other cover whereby the inspection of the leaves in the binder is prevented; and means for automatically retracting the said strap when the same is released.

15. In a binder, the combination of the covers; adjustable sheet or leaf-clamping means; adjustable means for securing the said covers in their closed position, arranged to be retracted within one of said covers; and a lock for said cover-securing means, adapted also to prevent the adjustment of said leaf or sheet-clamping means.

16. In a binder, the combination of the covers; adjustable sheet or leaf-clamping means; means for securing the said covers in their closed position, arranged to be retracted within one of said covers; and a lock for said cover-securing means, adapted also to prevent the adjustment of said leaf or sheet-clamping means.

17. In a binder, the combination with the covers, of adjustable sheet or leaf clamping means; means for securing the said covers in their closed position arranged when disen-

gaged from one cover to be automatically re-
tracted within the other; and a lock for said
cover securing means arranged when locked
to prevent the adjustment of said leaf or
5 sheet clamping means whereby the inspec-
tion of the leaves in the binder or the re-
moval of the leaves from the binder is pre-
vented.

In witness whereof, I have hereunto set
my hand and seal in the presence of two 10
witnesses.

GEORGE R. FARLEY. [L. s.]

Witnesses:

L. G. GREENFIELD,
PHINA WOODRUFF.