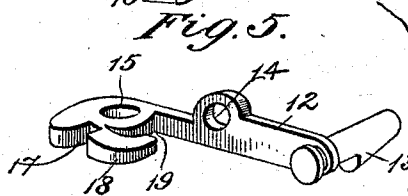
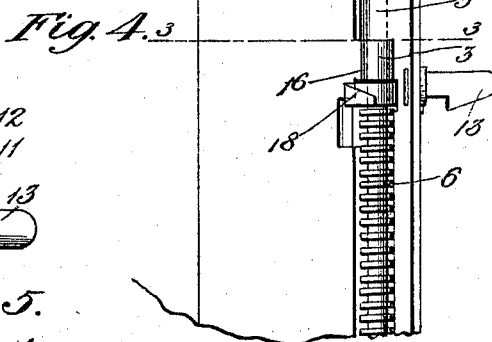
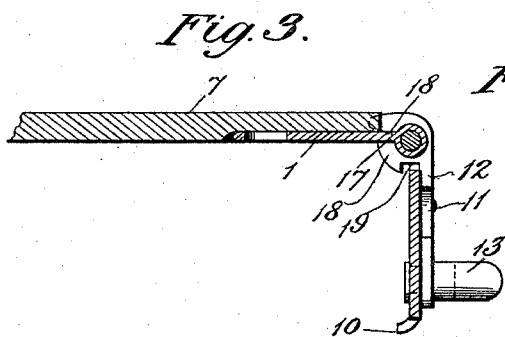
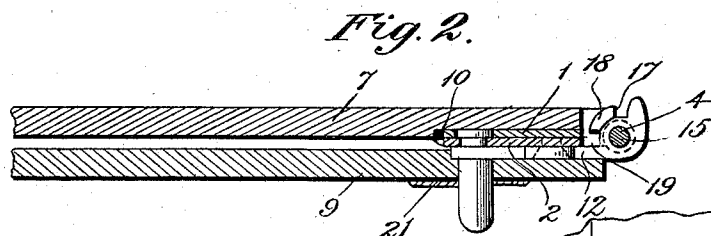
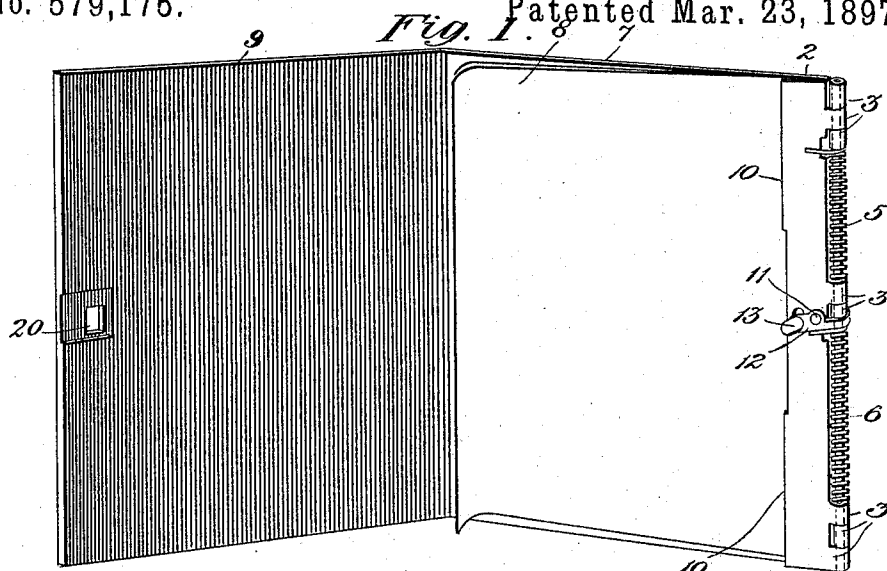


(No Model.)

C. E. PARKER.
TEMPORARY BINDER.

No. 579,175.

Patented Mar. 23, 1897.



Witnesses

Edw. D. Small Jr.
by H. D. Small

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UNITED STATES PATENT OFFICE.

CHARLES E. PARKER, OF DULUTH, MINNESOTA, ASSIGNOR OF TWO-THIRDS
TO BUCKLEY H. HOLMES, OF SAME PLACE.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 579,175, dated March 23, 1897.

Application filed April 25, 1896. Serial No. 589,007. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. PARKER, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, 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 the class of inventions known as "temporary binders."

The main objects in the present instance are to construct such a binder as to more especially adapt it for use in connection with the mercantile or express business, the same being applied to the ordinary delivery, invoice, receipt, or other book commonly employed, and which contains a number of leaves held in place during use, and which are intended to be subsequently removed and filed away for future reference; to so construct the binder as to adapt it to be readily and cheaply manufactured and applied to the books and when in position thereon to effectually retain said leaves in position and against any possible displacement during use, and without any puncturing or other marring, and yet be capable of permitting of an instantaneous and ready removal of them when desired and the insertion of others when occasion requires.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of an ordinary form of delivery, receipt, or invoice book having my temporary binder applied thereto. Fig. 2 is a transverse sectional view of the two meeting ends of the book thus shown. Fig. 3 is a sectional view similar to Fig. 2, with the exception that but one end of the book is shown and the temporary binder is illustrated as open for the introduction of a new supply of leaves or for a removal of such as have been used, the section being taken on the line 3 3 of Fig. 4. Fig. 4 is a front elevation, the parts being in the same position as they are

shown in Fig. 3. Fig. 5 is a detail in perspective of the locking-latch.

Like numerals of reference indicate like parts in all the figures of the drawings.

The binder consists of two light metal leaves—to wit, a stationary or securing leaf 1 and a swinging or movable clamping-leaf 2—the same being of equal length and provided at their outer edges, at their ends, and centers with companion hinge-eyes 3 for the reception of a pintle 4 of a length corresponding to that of the leaves 1 and 2.

Encircling the pintle at each side of the central hinge-eyes 3 and extending from thence to the end hinge-eyes is a pair of coiled springs 5 and 6, one terminal of each of which overlaps the stationary or securing leaf 1 and the other terminals of which overlap the clamping-leaf 2, the tendency of said springs being to normally close the clamping-leaf upon the securing-leaf. The stationary or securing leaf being riveted or otherwise secured upon the free end of the book-cover section 7 it will be seen that a series of loose leaves or pages 8, as are commonly employed in books of this kind, may have their ends caught and clamped by the leaf 2 upon the leaf 1, and are thus held securely yet removably between the book-covers 7 and 9, and that when thus held the book may be freely handled, as in ordinary use, and yet the leaves 8 always maintained in place in a perfectly-accessible manner; furthermore, that by swinging the clamping-leaf of the binder outward against the tension of the springs the leaves 8 may be removed unmarred and filed away for future reference. In order to make this clamping and retaining action more sure and positive, I prefer to make the leaf 2 slightly wider at each side of its center than the leaf 1 and to bend such portions of its free edge inward, as at 10, thus producing clamping-flanges.

Centrally pivoted at 11 to the outer surface of the clamping-leaf 2 and adapted to vibrate thereon in a lateral direction is a latch 12. (Best shown in the detail view in Fig. 5.) As therein illustrated, it will be seen the latch is provided with a shouldered lug at one end that extends at a right angle thereto, said lug having that portion above

its shoulder beveled, a central eye 14 for the reception of the pin 11, by which it is fulcrumed or pivoted, and an eye 15 at its opposite end, the latter eye 15 being disposed at a right angle to the disposition of the eye 14. This eye 15 is for loosely receiving the pintle 4 at one side of the central hinge-eye 3 of the fixed or securing leaf 1 and is located between the same and the end of the next adjacent coiled spring 6, said spring bearing against the latch and forcing the inner end of the same upwardly against the shank or shoulder 16, formed immediately below the central hinge-eye 3.

At one side of the eye 15 a notch 17 is formed, and leading to the notch and curved concentrically with the eye 15 there is produced an inclined shoulder 18, the same extending from a point near the latch, but stopping short of the same and producing a second notch 19.

When the leaves 1 and 2 are closed upon the loose leaves 8 and the book-covers likewise closed, the shouldered catch-lug 13 passes through an opening 20, formed in the book-cover 9 and in a metal plate 21, applied to the outer surface of said book-cover, with the edge of which said shoulder is thrown into engagement by the influence of the spring 6, and thus the book is retained closed. The book, however, may be readily opened by pressing the latch laterally through the medium of the lug 13 against the tension of its spring 6. By swinging the leaves of the book closed the edge of the plate 21 is caused to ride over the inclined face of the lug 13 of the latch, the edge of the plate being engaged by the shoulder of said latch, so that the book is maintained closed. The opening and closing of the book, it will be seen, in no wise disturbs or releases the loose leaves 8, as the latter are held firmly in position by the swinging leaf 2, that is influenced by the coil-springs, as before described.

When the clamping-leaf 2 is closed or in its clamping position upon the loose leaves 8, the notch 19 of the latch 12 engages with the shank 16 below the central hinge-eye 3, that is formed on the edge of the stationary leaf 1. To open the clamping-leaf 2 in order to release the loose leaves 8, it is simply necessary to laterally vibrate the latch 12, so as to disengage its notch 19 with the shank or shoulder 16 and subsequently swing the clamping-leaf at a right angle to the leaf 1. In doing so the inclined shoulder 18 rides against the shank or shoulder 16, compressing the spring 6 until the notch 17 of the latch comes opposite the shank or shoulder 16, when the latch is caused to vibrate in an opposite direction and the notch 17 becomes engaged with the shank or shoulder 16, so that the parts become locked against the tension of the springs 5 and 6 and the clamping-leaf is held open while the loose leaves 8 are removed and a new lot substituted. By a vibration of the latch against the tension of

its spring 6 the notch 17 is disconnected from the shank or shoulder 16, and the springs 5 and 6 quickly snap the clamp upon the paper.

From the foregoing description, in connection with the accompanying drawings, it will be observed that I effectually accomplish all the objects of my invention as set forth hereinbefore and have produced a simple temporary binder that may be applied to the back section of any book-cover or other base, and which when in position will securely maintain a series of leaves such as are commonly employed in position for writing, and which will release the same, and furthermore accomplish this without any marring whatever. It will further be observed that the latch not only secures the backs of the book together, so that the book may be thrown around and carelessly handled without disturbing its contents, but the latch further serves the purpose of locking the clamping-leaf of the binder open, whereby the old leaves may be removed and new ones substituted.

I do not limit my invention to the precise details of construction herein shown and described, but hold that I may vary the same in regard to such details within the knowledge of the skilled mechanic without departing from the principle of my invention or sacrificing any of its advantages.

Having described my invention, what I claim is—

1. The combination with a book-cover or other base, of a pair of metal leaves hinged together at their outer edges, and one of said leaves being secured to one edge of one of the cover-sections or base, of a spring for normally closing the remaining leaf, and a spring-operated latch for locking said remaining leaf in an open or separated position against the tension of the said spring, substantially as specified.

2. The combination with book-cover sections, of a pair of metal leaves, the inner one of which is secured to one of the sections of the cover, hinge-eyes arranged at the outer edges of the leaves, a pintle connecting the eyes, a coiled spring arranged upon the pintle and having its terminals embracing the outer sides of said leaves, a latch pivoted on the outer or movable leaf and at its outer end having an eye loosely receiving the pintle and borne upon and influenced by the spring, said latch being provided at one side of its eye with a notch for engaging the opposite or fixed leaf whereby the leaves may be maintained separated against the tension of the spring, substantially as specified.

3. The combination with book-cover sections, of a metal leaf secured to one edge of one of the same, a clamping-leaf hinged thereto, a spring for normally closing the clamping-leaf upon the secured leaf, a latch pivoted on the clamping-leaf and provided with a shank or shoulder extended at an angle thereto, and an opening arranged in the opposite portion

of the cover for the passage therethrough of said lug and designed at one edge to engage with the shoulder of the same, substantially as specified.

5 4. The combination with book-cover sections, of a fixed metal leaf applied to one edge of one of the same and provided with central and end hinge-eyes, a clamping-leaf having companion hinge-eyes, connecting-pintle, 10 springs interposed between the hinge-eyes and arranged upon the pintle and having their terminals embracing the said leaves, the latch 12 pivoted on the clamping-leaf and at its rear end having the eye 15, notches 17 and 19 and intermediate inclined shoulder 18, all arranged 15 as shown, said eye receiving the pintle and being borne upon by the end of the spring, the beveled shouldered lug 13 at the opposite end of the latch, and the opening 20 in the 20 opposite side of the book-cover for receiving the lug, substantially as specified.

5 5. The combination with book-cover sections, of a pair of hinged leaves, the inner one of which is secured to one edge of one of said 25 sections, a spring for normally closing said

leaves so as to clamp a series of loose sheets or leaves of paper, and means actuated by said spring for locking the book-cover closed and for retaining said hinged leaves in an open or separated position against the tension of their 30 spring, substantially as specified.

6. The combination with book-cover sections, of a pair of hinged clamping-leaves, the inner one of which is secured to the edge of one of said sections, a spring for normally 35 closing the leaves, whereby the same are adapted to secure a series of loose sheets of paper, and a latch pivoted on the outer movable leaf and actuated by said spring to engage and lock with the stationary leaf when 40 the same are opened and to engage and secure the book-cover when the same is closed, substantially as specified.

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

CHARLES E. PARKER.

Witnesses:

F. J. D. JOSLYN,
FRANK HICKS.