

S. D. PAGE & J. C. HEDGES.
 LOOSE LEAF BOOK.
 APPLICATION FILED OCT. 29, 1908.

931,796.

Patented Aug. 24, 1909.

2 SHEETS—SHEET 1.

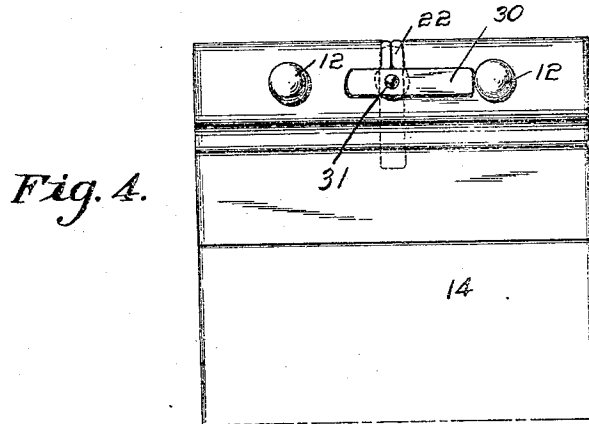


Fig. 2.

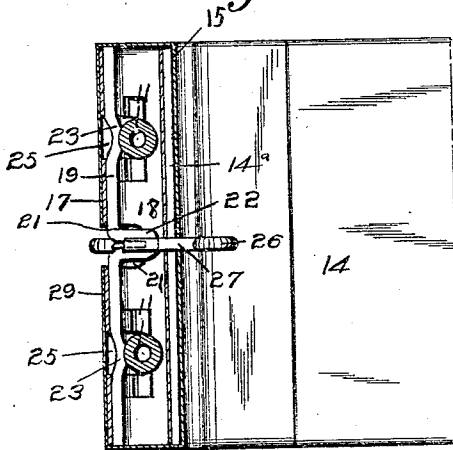


Fig. 3.

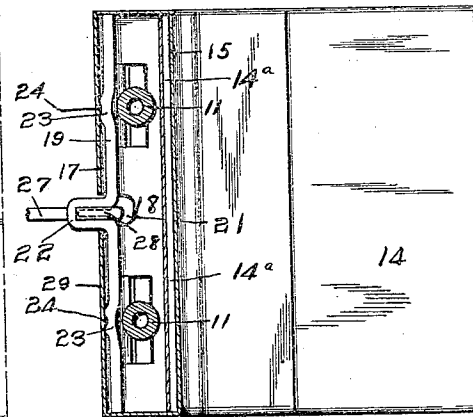
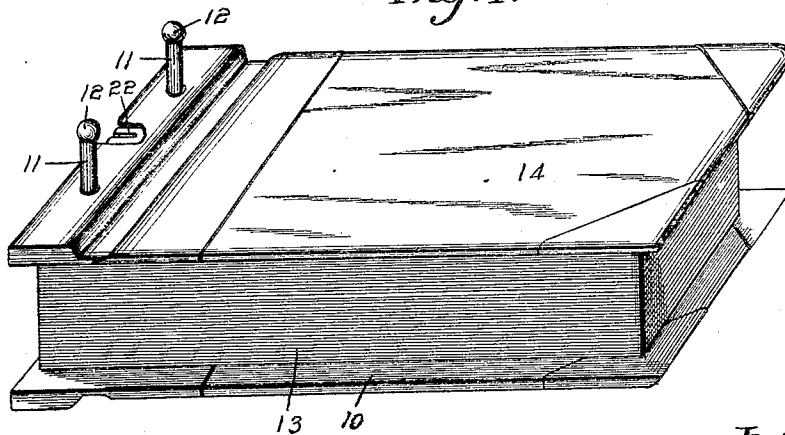


Fig. 1.



Witnesses.

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Fig. 5.

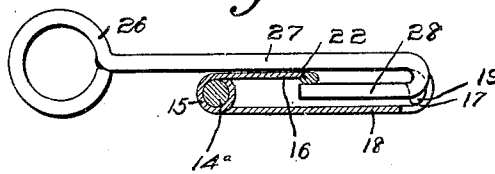


Fig. 6.

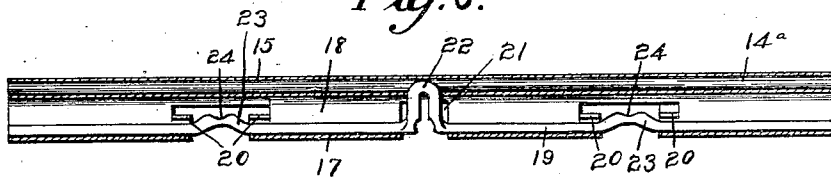
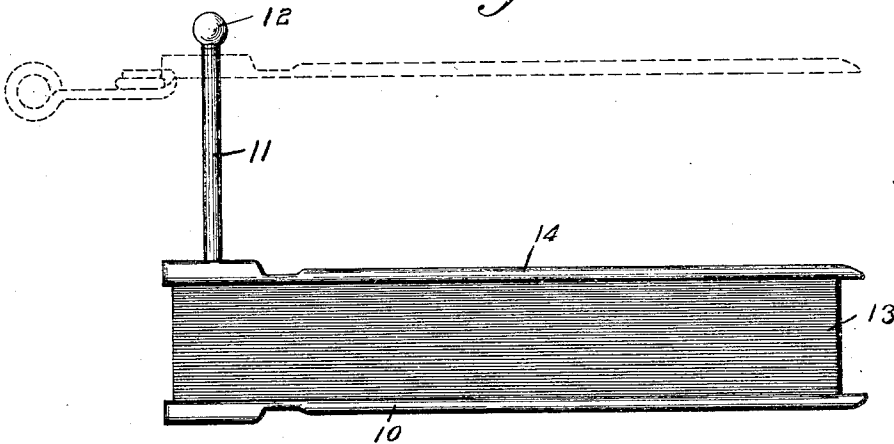


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

SAMUEL D. PAGE AND JOHN C. HEDGES, OF DES MOINES, IOWA.

LOOSE-LEAF BOOK.

931,796.

Specification of Letters Patent.

Patented Aug. 24, 1909.

Application filed October 29, 1908. Serial No. 460,147.

To all whom it may concern:

Be it known that we, SAMUEL D. PAGE and JOHN C. HEDGES, citizens of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Loose-Leaf Book, of which the following is a specification.

The object of our invention is to provide a loose leaf book in which one of the cover sides, and the leaves, may be readily, quickly and easily detached, and also in which one of the cover sides may be quickly and easily adjusted to any desired distance from the other, to accommodate different numbers of leaves, said device being so arranged that when the movable cover side is placed in any position of its adjustment, it will be firmly locked therein, and be prevented from removal, except by the use of a key.

Our invention consists in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in our claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a perspective view of a complete book embodying our invention. Fig. 2 shows a horizontal central sectional view through one end portion of the adjustable cover side, with the cover securing means in its locked position. Fig. 3 shows a similar view, with the cover securing means in its unlocked position. Fig. 4 shows a plan view of one end portion of the detachable cover side, illustrating a modified form of key for locking and unlocking the cover side in position. The dotted lines in said figure show the key in position for use. Fig. 5 shows an enlarged detail sectional view through the central portion of the sheet metal frame, to illustrate the locking bar therein. Said view also shows our preferred form of key in position in engagement with the said locking bar. Fig. 6 shows a longitudinal sectional view through the central portion of the end of the cover side containing the securing mechanism, and—Fig. 7 shows an edge view of a book embodying our invention. The dotted lines in said figure show the adjustable cover side in its elevated position, and the key in its position for holding the locking mechanism open or released.

Referring to the accompanying drawings, we have used the reference numeral 10 to

indicate the stationary cover side having permanently connected with it two upright posts 11. These posts are provided with detachable knobs 12 at their upper ends, and the posts and knobs are of the ordinary construction now in general use.

The leaves are indicated by the numeral 13, and are of the ordinary kind, preferably provided with openings to receive the posts 11.

The numeral 14 indicates the body portion of the adjustable cover side. The end of said adjustable cover side is formed of a single piece of sheet metal having a round rod 14^a extended through one end with the sheet metal folded over it at 15, thereby forming a solid outer edge for the adjustable cover side. The sheet metal frame is then extended rearwardly at 16, and then downwardly at 17, and then forwardly at 18.

Mounted in the edge of the sheet metal frame opposite from the rod 14^a is a rotatable locking bar or shaft 19, held in position by means of the integral lugs 20, which lugs permit said locking bar to freely rotate. The central portion of the sheet metal frame is cut away at 21, and in the locking bar 19 at its central portion, we have provided a hook 22 which normally extends upwardly through the sheet metal frame and then parallel with the top of the sheet metal frame toward the outer edge thereof, as clearly shown in Fig. 5. The sides of the hook are spaced apart far enough to permit the insertion of a key, to be hereinafter described. Said hook is so arranged that it may swing upwardly and away from the outer edge of the cover member to which it is connected, to a horizontal position, as shown by dotted lines in Fig. 6. That is to say, the bar to which it is attached may be turned about one-half a revolution. Formed in the locking bar at points between the said hook 22 and the ends thereof, are two curved portions 23, each provided with a notch 24, the material forming the sheet metal frame being cut away adjacent to these curved portions, and the top of the sheet metal frame is cut away at 25 above said curved portions to receive the posts 11. Said parts are so arranged that when the hook 22 is in the position shown in Fig. 3 the curved portions 23 of the locking bar will stand in position away from the posts 11, and hence, the adjustable cover side may be freely moved vertically on said posts, then when

the hook 22 is moved to the position shown in Fig. 2 the notches 24 on the curved portions 23 will engage and firmly bind upon the posts 11, to thereby lock the adjustable cover side in position.

Obviously, the structure of the sheet metal frame and the locking device is extremely simple, as it comprises only a straight wire rod to form the outer edge and a frame made of a single piece of sheet metal, and a locking bar formed of a single piece of wire.

In order to operate the hook 22, we have provided a key comprising a handle loop 26, a straight body portion 27, and a hooked end 28, the said hooked end being designed to enter between the sides of the hook with the straight portion 27 above the end of the hook, as clearly shown in Fig. 5. By this arrangement, it is obvious that when the hook is in the position shown in Fig. 5, the handle may be grasped and turned to move the hook to its opposite limit, and to thereby release the locking bar from the posts. The said hook is preferably made so small, and the friction of the curved portions 23 against the posts is such, that said hook cannot be moved by hand, and hence, the movable cover side is locked and cannot be released without the aid of the key. The adjustable cover side and the sheet metal frame are both covered and connected with each other by means of an ordinary binding material such as cloth or leather, indicated by the numeral 29.

In the modified form shown in Fig. 4, we have shown a key permanently connected to the hook 22. This key comprises a flat bar 30 pivotally connected with the hook 22 by means of a pivot pin 31. Normally this bar stands in the position shown in solid lines in Fig. 4, and when it is desired to use it, it is turned to the position shown by dotted lines, whereupon it may be grasped by the operator to manipulate the hook.

In practical use, and assuming that the device is in its locked position, then the operator attaches the key to the hook and turns it about a half revolution, whereupon the locking bar is released from the posts, and the movable cover side may be raised and lowered on the posts.

It is obvious that the device is of very simple and inexpensive construction.

We claim as our invention:

1. In a loose leaf book, the combination of a cover side, posts connected therewith, a movable cover side, a frame connected therewith, a locking bar rotatably mounted in said frame and comprising a central hook and two curved portions, the latter being designed to engage said posts, and means for moving the hook.

2. In a loose leaf book, the combination of a cover side, posts connected therewith, a movable cover side, a frame connected therewith, a locking bar rotatably mounted in said frame and comprising a central hook and two curved portions, the latter being designed to engage said posts, means for moving the hook, said means comprising a key having a hook thereon designed to engage the hook on the locking bar.

3. An improved loose leaf book comprising a stationary cover side, posts secured thereto, a movable cover side, a frame forming part of said movable cover side and formed complete of a single piece of sheet metal, a rod at one edge of the sheet metal frame, said sheet metal frame having openings at its central portion and at points between the central portion and the ends, the latter openings being designed to admit the posts, and a locking bar formed of a single piece of wire or rod mounted within the sheet metal frame; lugs formed in the sheet metal frame for supporting said locking bar, a hook formed in the central portion of the locking bar and two curved portions formed in the locking bar having notches therein, said central hook being designed to extend through the openings at the center of the sheet metal frame, and said curved portions being arranged adjacent to the openings in the sheet metal frame for the posts, and a key designed to be detachably connected with the hook.

Des Moines, Iowa, October 7, 1908.

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