

C. H. PAYNE.
 LOOSE LEAF BOOK.
 APPLICATION FILED AUG. 10, 1909.

947,620.

Patented Jan. 25, 1910.

Fig. 1.

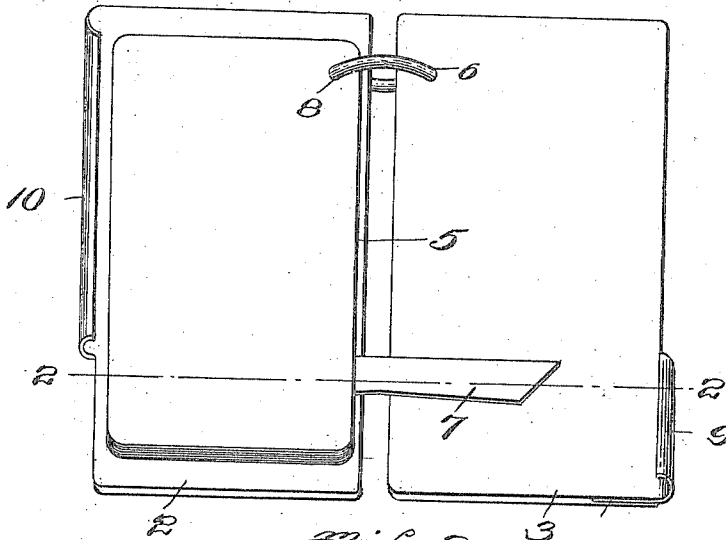


Fig. 2.

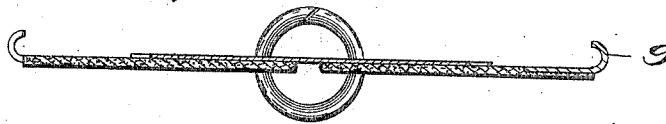


Fig. 4.

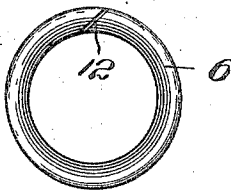


Fig. 3.

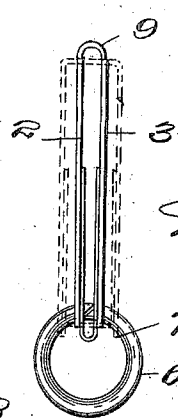


Fig. 6.

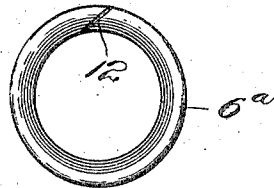


Fig. 5.

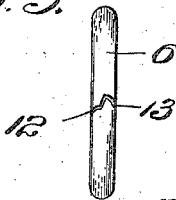


Fig. 7.

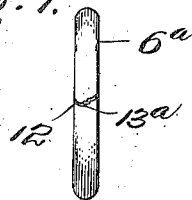
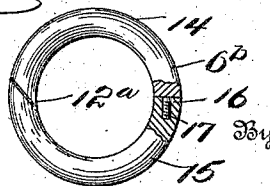


Fig. 8.



Witnesses

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UNITED STATES PATENT OFFICE.

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LOOSE-LEAF BOOK.

947,620.

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To all whom it may concern:

Be it known that I, CHARLES H. PAYNE, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Loose-Leaf Books, of which the following is a specification.

My invention relates to improvements in loose leaf books of that type comprising covers and leaf retaining elements passing through the rear edges of the covers.

One object of my invention is the provision of a book of the above stated character which shall embody a construction designed to obviate the necessity of employing more than a single leaf retaining element, whereby to facilitate the application and removal of the leaves and to simplify the construction of the book.

A further object of the invention is the provision of a loose leaf book wherein the covers shall be connected together for relative adjustments to permit the number of leaves in the book to be increased or diminished; the connection between the covers being such that they will lie when closed in parallel relation.

A further object of the invention is the provision of a loose leaf retaining element which shall have the walls of its entrance slot so formed as to prevent the leaves from becoming accidentally disengaged therefrom, the construction of the walls being such as to permit the leaves to be readily and quickly applied to and removed from the element.

A still further object of the invention is the provision of a loose leaf book which shall embody a simple, durable and efficient construction, and which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:—

Figure 1 is a plan view of a loose leaf book constructed in accordance with my invention, the book being shown opened. Fig. 2 is a sectional view taken on the plane indicated by the line 2—2 of Fig. 1. Fig. 3 is a view in end elevation of the book. Fig. 4 is a view in side elevation of the leaf retaining element. Fig. 5 is a view in edge elevation of the retaining element. Fig. 6 is a view in

side elevation of a slightly modified form of leaf retaining element. Fig. 7 is a view in edge elevation of a modified form of leaf retaining element, and Fig. 8 is a view in side elevation of a still further modified form of leaf retaining element, a portion of the element being in vertical section to illustrate the connection between the sections thereof.

Like numerals of reference are used to designate the same parts throughout the several figures of the drawing.

The loose leaf book comprises covers 2 and 3 which are preferably rectangular in outline and which may be made of any material suitable for the purpose. The leaves 5 are removably secured within the book by an element 6. The leaf retaining element 6 and a strip 7 hingedly connect the covers 2 and 3, the connection between the covers being such that they may be relatively adjusted to permit the number of leaves 5 to be increased or diminished and to permit the covers when closed to lie in parallel relation.

The retaining element 6 is of the split ring variety, and it passes through the rear edges of the covers 2 and 3 at points adjacent their upper rear corners. To permit of their application to and removal from the retaining element 6 the leaves 5 are each provided at one of its corners with an opening 8. As only one retaining element is employed, the leaves are both hingedly and pivotally secured in applied position. The pivoting of the leaves permits one or more of them to be swung out from between the covers when it is desired to write upon or examine the contents thereof. The hinging of the leaves permits them to be written upon and examined in the usual manner.

The strip 7 is constructed of any flexible material suitable for the purpose, and is secured at its ends to the inner sides of the covers 2 and 3 at a point suitably remote from the leaf attaching element 6. As the leaf retaining element 6 is annular and as the strip 7 is flexible and secured only at its ends, the covers 2 and 3 may be relatively adjusted. The adjustability of the covers 2 and 3 permits the number of leaves 5 to be increased or diminished. The strip 7 prevents the lower rear edges of the leaves 5 from projecting beyond the rear edges of the covers 2 and 3, that is to say, the strip forms a support for the lower rear edges of

the leaves. To prevent the leaves from projecting beyond the front edge of the book, the covers 2 and 3 are provided at their front edges with flanges 9 and 10, respectively. The transverse dimension of the flanges 9 and 10 may be increased and diminished to compensate for the adjustability of the covers 2 and 3, and they are formed by the projecting ends of flexible members 11 embedded in the covers 2 and 3. The manner in which the covers 2 and 3 are connected together also permit them to be folded back one against the other.

As shown in Figs. 4, 5, 6 and 7 of the drawing, the entrance slot 12 of the retaining element 6 passes diagonally through the element. As disclosed in Figs. 5 and 7 of the drawing, the walls of the entrance slots 12 of the preferred and modified forms of the locking element are provided with interlocking baffle projections 13 and 13^a, respectively. The baffle projections and the inclination of the entrance slot prevent the leaves from becoming accidentally disengaged from the retaining element. The modified form of locking element disclosed in Fig. 8 of the drawing and designated 6^b is provided with a diagonal entrance slot 12^a the walls of which are provided with baffle projections, not shown. This form of locking element consists of two sections 14 and 15, respectively. The section 14 is provided with a stud 16 having threaded engagement with the wall of a socket 17 in the section 15. The connection between the sections of the locking element is such that the free ends of the sections may be moved away from each other when it is desired to apply or remove one or more leaves.

Changes in the form, proportions and minor details of construction, may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what I claim as new is:—

1. A loose leaf book comprising covers, a leaf retaining element passing through the covers, and a hinge strip secured at its ends to the covers and spaced from the retaining element.

2. A loose leaf book comprising covers, a leaf retaining element passing through the covers at points adjacent their upper rear corners, and a hinge strip secured at its ends to the covers at a point remote from the element.

3. A loose leaf book comprising covers, means connecting the covers for relative adjustments, leaves pivotally and hingedly secured to said means and flanges on the outer edges of the covers to prevent the leaves

from projecting beyond the outer edges of the covers.

4. A loose leaf book comprising covers, means connecting the covers for relative adjustments, and flanges at the outer edges of the covers, said flanges being adapted to have their transverse dimensions increased or decreased.

5. A loose leaf book comprising covers, leaves, a split ring passing through the covers and leaves, and a strip secured to the covers, said ring and strip hingedly and adjustably connecting the covers.

6. A loose leaf book comprising covers, leaves, a split ring passing through the covers and leaves, a strip secured to the covers, said ring and strip hingedly and adjustably connecting the covers and flanges on the covers.

7. A leaf retaining element consisting of a ring having an entrance slot, the walls of the slot being relatively spaced, and a baffle projection formed on one of the walls of the slot.

8. A loose leaf book comprising covers, leaves secured between the covers, and a flange on one of the covers, said flange being constructed of flexible material to permit its transverse dimension to be increased or decreased.

9. A loose leaf book comprising covers, leaves secured between the covers, and a transversely extensible flange on one of the covers.

10. A leaf retaining element consisting of a ring having an entrance slot, the walls of the slot being relatively spaced, and a baffle projection extending into the entrance slot.

11. A leaf retaining element consisting of a ring having an entrance slot, the walls of the slot being relatively spaced, and a plurality of interlocking baffle projections extending into the slot.

12. A loose leaf book comprising covers, means hingedly connecting the covers, means pivotally and hingedly mounted upon said means, and means adapted to prevent the pivotal movement of the leaves in one direction when the book is closed.

13. A loose leaf book comprising covers, means hingedly connecting the covers, leaves pivotally and hingedly mounted upon said means, and means adapted to prevent the pivotal movement of the leaves when the book is closed.

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

CHARLES H. PAYNE.

Witnesses:

ED. C. HARDING,
FRED. J. NOLKER.