J. L. McMILLAN.

LOOSE LEAF BOOK.

APPLICATION FILED DEC. 27, 1910.

1,121,197. Patented Dec. 15, 1914.

Fig. 1.

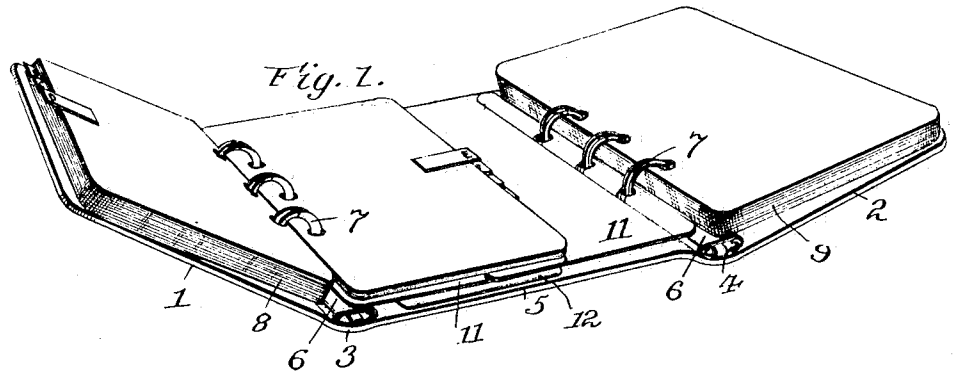


Fig. 2.

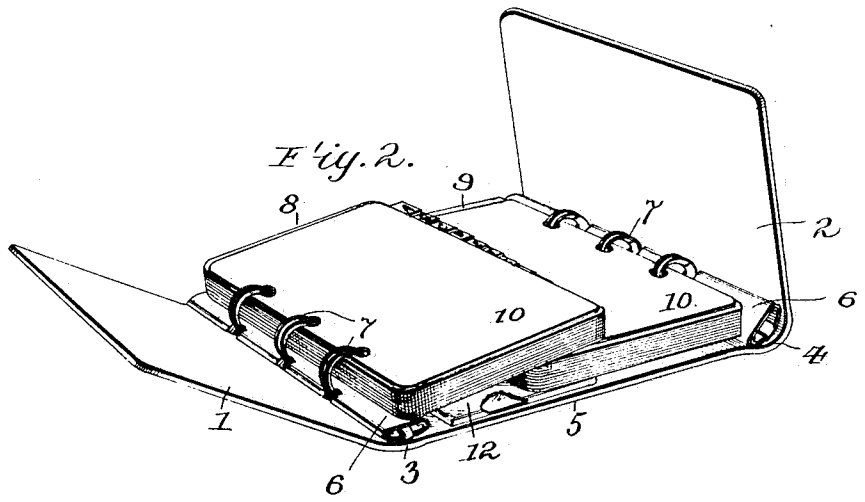
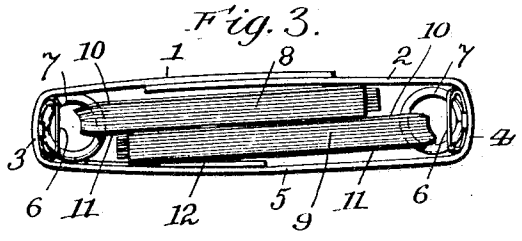


Fig. 3.



WITNESSES

C. H. Raeder

H. E. Montague

INVENTOR:

John L. McMillan,

by Dodge and Sons,

Attorneys.

UNITED STATES PATENT OFFICE.

JOHN L. McMILLAN, OF SYRACUSE, NEW YORK.

LOOSE-LEAF BOOK.

1,121,197. Specification of Letters Patent. Patented Dec. 15, 1914.

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To all whom it may concern:

Be it known that I, JOHN L. McMILLAN, a citizen of the United States, and resident of Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Loose-Leaf Books, of which the following is a specification.

My present invention pertains to an improved book, and more particularly to a loose-leaf book, the construction lending itself more readily to use in connection with books of the so-called pocket memorandum type, though also applicable to books in general.

The book which forms the subject of the present invention is illustrated in the annexed drawings, wherein:

Figure 1 is a perspective view of the book in its fully-open position; Fig. 2 a similar view with the leaves of both sections of the book turned inward into their overlapping position; and Fig. 3 an end view, showing the book fully closed.

The object of this invention is to produce a book which while having double the capacity of the usual loose-leaf book will, nevertheless, have but little, if any, greater or appreciably greater thickness, and but slightly increased width.

With the use of sectional rings or coacting fingers for holding the leaves of the usual loose-leaf books in place, the leaves which may be advantageously employed are in thickness considerably less than the width or height of the back, or that portion of the book to which the binding members or leaf-holding devices are attached, and I take advantage of this fact by placing two oppositely-disposed packets or series of sheets or leaves within the same covers, and permitting the bodies of the leaves of one packet or series to overlap or overlie the other when the book is closed. The aggregate thickness of these superimposed leaves or packages of leaves is but little in excess of the height of the back, so that while there is present double the number of leaves or pages the book is not substantially thicker than the usual or ordinary single book.

In the drawings, 1 and 2 denote the free covers or cover-boards, connected by the backs 3 and 4, respectively, to the common cover or cover-board 5, the outer face of the various members, where the book is of the memorandum type, being preferably formed from a single piece of leather with suitable facing. The manner of producing the parts and the material from which they are constructed is not, however, of the essence of the invention and will vary with the type of book. Preferably, the free boards 1 and 2 will be relatively short, they being sufficiently wide, however, to overlap and close over the leaves of the packets.

Secured to the inner face of each of the backs 3 and 4 is a suitable loose-leaf binder, designated by 6, the binder carrying leaf or sheet-engaging members 7, of any approved form, adapted to engage the leaves or pages which, as shown, are arranged in two oppositely-disposed packages, 8 and 9. Said packages are, when the book is closed, adapted to overlie each other, as shown in Fig. 3, and as will be seen upon reference to said figure, the thickness of the book through the center is but little greater than the height of the backs 3 and 4.

Any approved form of binder may be employed in lieu of the construction shown, which is of the two-part ring type.

To prevent the sheets of the packages from rubbing against each other and against the cover-boards, I employ a pair of celluloid sheets 10 and 11, or the like, positioned upon the upper and lower faces of the respective packets.

As will be readily appreciated upon an inspection of the drawings, and more particularly upon reference to Fig. 1, either packet of leaves may be readily opened and used as desired, and either packet closed down upon the common cover-board 5 when it is necessary to close the book, the rings permitting this to be readily accomplished, as the leaves automatically adjust themselves thereon. Moreover, each packet or book-section may be opened out substantially flat, see the left-hand portion of Fig. 1, the boards, or more strictly speaking, those portions adjacent the backs and which form the connections between the backs and the boards, being sufficiently flexible to permit the boards to be brought into a common plane, or in other words, to lie out flat.

It is to be noted that the packets may be bodily swung, in whole or in part, to one or the other side of their point of connection and it is not necessary to bend any one or more leaves over upon itself in order to expose the next adjacent leaf.

A card pocket, as 12, may be formed upon the inner face of the intermediate or common cover-board or cover 5.

Having thus described my invention, what I claim is:

1. A book comprising three alined cover-boards; a pair of backs forming connections between the opposite extremities of the central or intermediate section and the other boards; and a packet or series of leaves connected to each back and capable of being turned, bodily as a whole or in part, to one or the other side of their point of connection, the leaves of one series overlying those of the other when they are turned inwardly to their closed position.

2. A book, comprising three alined cover-boards; a pair of oppositely-disposed backs flexibly connecting the boards in pairs, with one board common to the two pairs; a loose-leaf ring binder secured to each back; and a series of leaves carried by each binder, the leaves of one series overlying those of the other when the book is closed.

3. A book having two packets or series of oppositely-disposed and secured leaves, the packets being free to swing, bodily in whole or in part, to one or the other side of their point of connection, one of said packets overlying the other when the book is closed.

4. A book comprising two packets or series of oppositely-disposed and freely-opening and swinging leaves, each packet being likewise susceptible of being swung bodily as a whole to one or the other side of its point of connection, said packets overlapping when the book is closed; and a cover for the packets.

5. A book comprising two packets or series of leaves secured to the book at their remote edges, the packets being free to be swung, bodily in whole or in part, to either side of their point of connection, said packets folding or turning directly toward or from each other and overlapping when the book is closed; and a combined cover and back for said packets formed from a continuous piece of material.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN L. McMILLAN.

Witnesses:
H. L. Babcock,
N. J. Markert.