T. W. THOMAS.

LOOSE LEAF LOOSE CARD BOOK.

APPLICATION FILED DEC. 9, 1912.

1,119,768.

Patented Dec. 1, 1914.

2 SHEETS—SHEET 1.

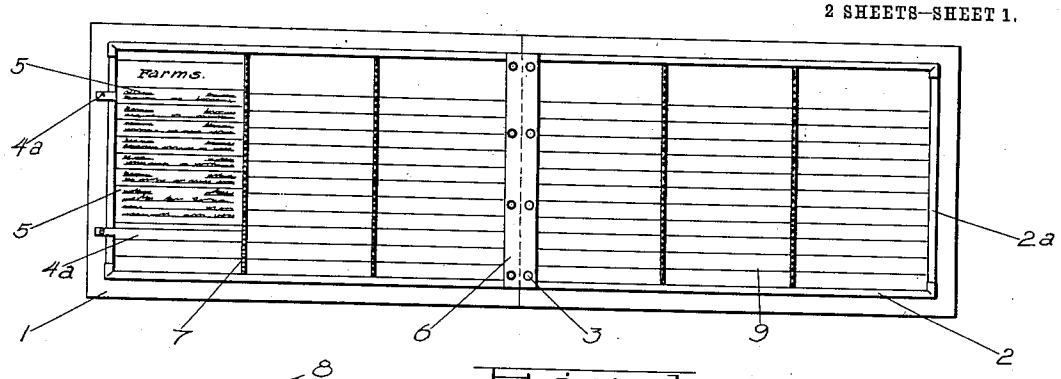


Fig 1

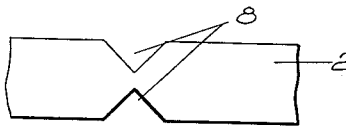
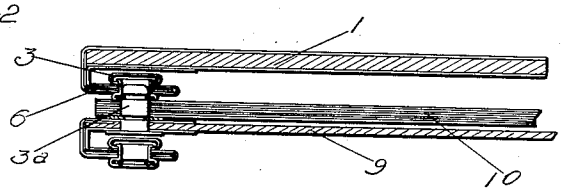


Fig 4



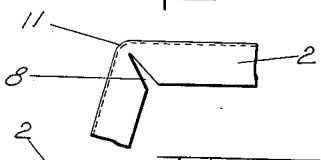
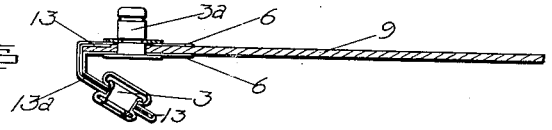


Fig 2

Fig 5



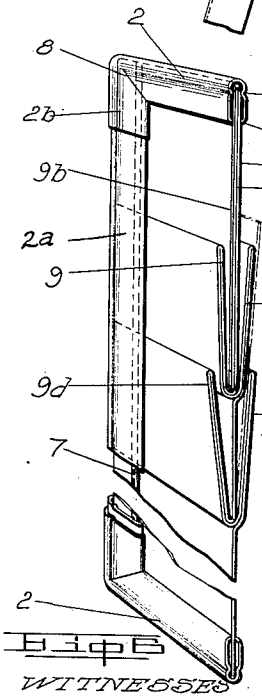


Fig 6

Fig 3
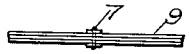


Fig 8

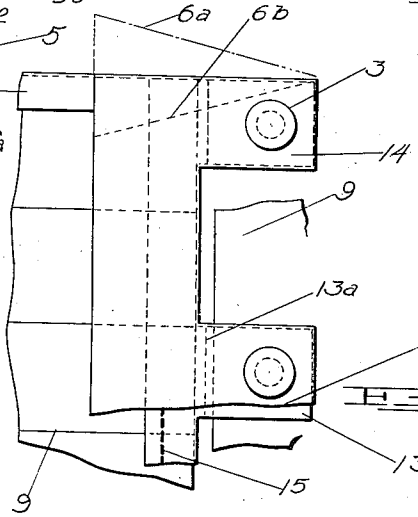


Fig 7

WITNESSES

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2 SHEETS—SHEET 2.

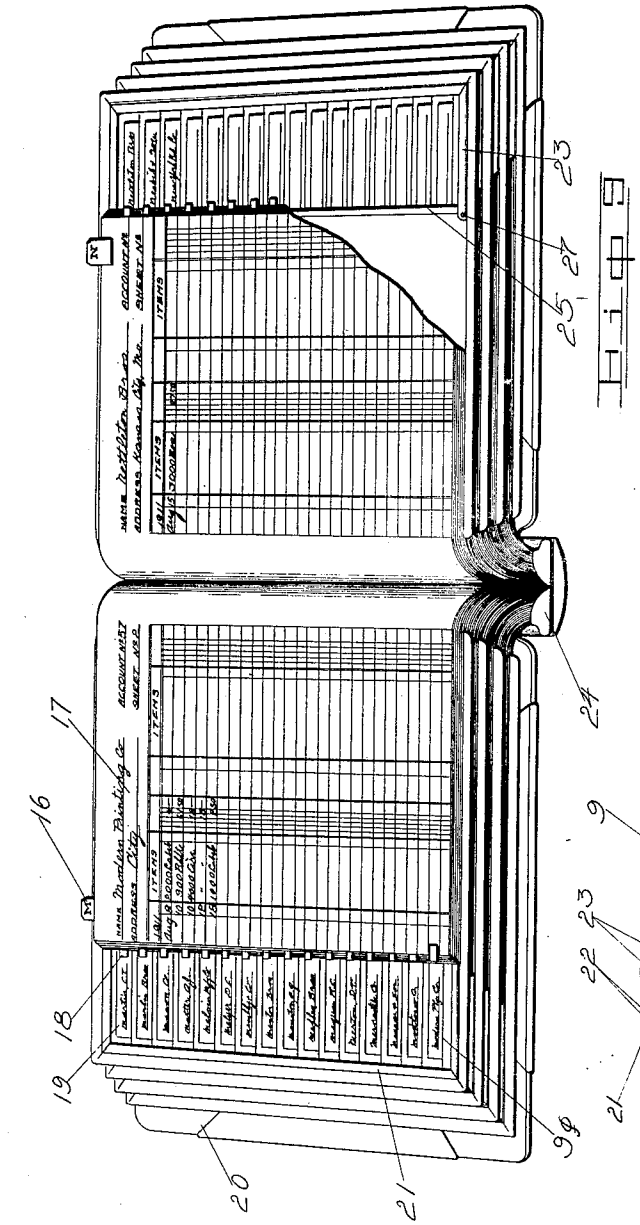


Fig. 5.

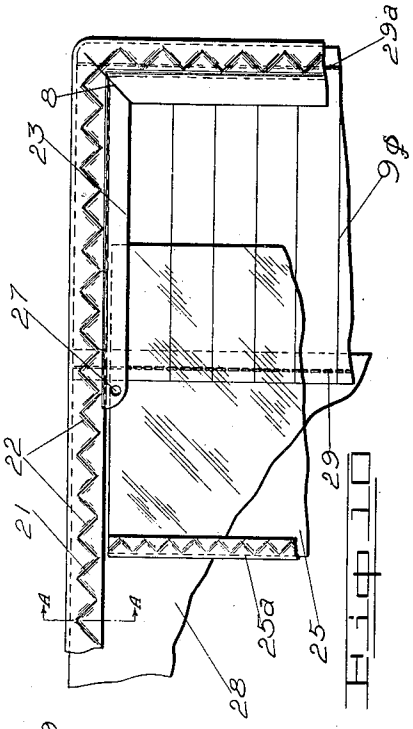


Fig. 10.

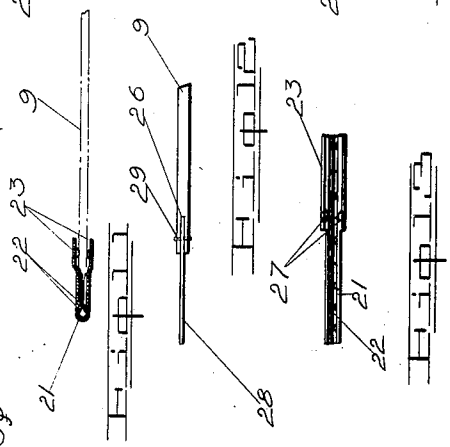


Fig. 11.

Fig. 12.

Fig. 13.

WITNESSES:

Flora Fogelberg

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UNITED STATES PATENT OFFICE.

THOMAS W. THOMAS, OF PORTLAND, OREGON.

LOOSE-LEAF LOOSE-CARD BOOK.

1,119,768. Specification of Letters Patent. Patented Dec. 1, 1914.

Substitute for application Serial No. 599,618, filed December 27, 1910. This application filed December 9, 1912. Serial No. 735,645.

To all whom it may concern:

Be it known that I, THOMAS W. THOMAS, a citizen of the United States, and residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Loose-Leaf Loose-Card Books, of which the following is a specification.

This invention relates to improvements in loose-leaf loose-card books and has for its objects, a cheap, simple method of folding the pockets, a suitable binding for said pockets and a protecting cover for said pockets. I attain these objects by means of the improvements illustrated in the accompanying drawings in which,

Figure 1 shows the book open. Fig. 2 is a section through a portion of the book showing the hinges and their reinforcing members. Fig. 3 is a section through a detached leaf. Fig. 4 shows the notched metal binding before folding. Fig. 5 shows the notched metal binding partially folded. Fig. 6 is a vertical section through the pockets. Fig. 7 shows a modified form of hinge. Fig. 8 shows the method of binding between the pockets. Fig. 9 shows a book of modified form. Fig. 10 shows the method of attaching the transparent pocket protector. Fig. 11 is a section through the metal binding shown in Fig. 10. Fig. 12 is an edge view of a portion of Fig. 10 showing the method of splitting the pockets so as to receive the edge of the plain adjoining sheet. Fig. 13 is an inner edge view of the metal binding shown in Fig. 10.

Like numerals of reference indicate similar parts throughout the several views.

Referring to the drawings it will be seen that the book is composed of covers 1, loose-card leaves 9 and plain leaves 10, fastened together by means of hinge strips 6 and fasteners 3, and 3^a. A modified form of hinge strip 6^a is shown in Fig. 7, having its free edge formed into ears 14, thus allowing greater flexibility between adjacent leaves. The hinge strip is reinforced by an inner strip 13 having one edge attached to the leaf or cover and the other edge extending into the folded portion of the hinge strip and returning to the point 13^a. Said reinforcing strip is preferably attached to leaf 9 by sewing along the edge 15. Any desired form of fasteners 3 and 3^a may be used. In order to form a proper finish at the ends of the hinge strip 6 the end is cut obliquely as at 6^a and is then folded into the position shown at 6^b. Fig. 6 illustrates the method of forming the pockets in the leaves for the reception of cards 5 and index tabs 4^a. The upper edge of the leaf is reinforced by a strip 12 inserted between the adjacent leaf parts 9^b and 9^c, the end part 9^b being folded against its adjoining part 9^c, the pockets then being folded as shown at 9, 9^a, 9^d and 9^e, first one on one side and then one on the other side until the desired number of pockets are formed. The pockets are bound and divided by vertical strips of tape sewed at 7 and the leaf is bound along its edge by means of a U-shaped metal binding 2 and 2^a, which is preferably formed of three parts, an end binding 2^a and edge binders 2 having their ends 2^b bent over and onto the adjacent ends of binder 2^a. In order to facilitate said bending of ends 2^b, the strip 2 is notched at 8 thus allowing it to bend easily at the point 11. To hold the metal binding in place it is crimped along its edge at 2^c and also at 2^d.

In Fig. 9 is shown a modified form of book wherein the pockets are formed only along the ends of the leaves as at 9^g so as to hold index cards 19 adjacent to index tabs 18 attached to plain leaves 17, which are further provided at intervals with index tabs 16, all of said leaves being bound between covers 20 by any common form of loose-leaf binder 24. With this form of loose-card leaf it is found preferable to provide a transparent, sliding cover 25, stiffened along one edge by means of a zig-zag crimped, U-shaped metal binder 25^a. In order to hold said transparent cover 25 in place the U-shaped metal binder 21 is provided with outwardly disposed edges 23 having indentations 27 adapted to engage the edge of binder 25^a, to prevent said cover 25 from sliding out of place except under pressure. The U-shaped metal binder 21 is provided with a zig-zag crimp similar to binder 25^a. This zig-zag crimp 22 is more clearly shown in Figs. 11 and 13, being merely an indentation of zig-zag form. In this form of leaf the pockets 9^g are split at 26 and extension leaf 28 inserted therein and sewed in place at 29 as shown in Fig. 12. The outer edge of the pockets 9^g is also sewed at 29^a.

It is understood that slight changes may

be made in the specific structure shown without departing from the spirit of the invention.

Portions of this invention have been previously shown in my forfeited application for Letters Patent, on loose card book filed Dec. 27, 1910, Ser. No. 599,618 and allowed March 13, 1912.

What I claim is:

1. A loose-card book comprising detachable leaves formed of one sheet of paper so folded as to form pockets opening in the same direction on both sides of said leaves for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides.

2. A loose-card book comprising leaves formed of one sheet of paper so folded as to form pockets opening in the same direction on both sides of each of said leaves for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides.

3. A loose-leaf composed of one sheet of paper so folded as to form pockets opening in the same direction on both sides thereof for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides.

4. A loose-card book comprising detachable leaves formed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaves until the desired number of pockets are formed for the reception of cards.

5. A loose-card book comprising leaves formed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaves until the desired number of pockets are formed, for the reception of cards.

6. A loose-leaf composed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaf until the desired number of pockets are formed for the reception of cards.

7. A sheet or leaf containing a series of pockets formed of one continuous strip of flexible material folded so as to form upwardly pointing pockets alternately first one on one side and then one on the other side of said sheet or leaf.

8. A sheet or leaf containing a series of pockets formed of one continuous strip of flexible material folded so as to form pockets opening in the same direction, the pockets being alternately formed first one on one side and then one on the other side of said sheet or leaf until the desired number of pockets are formed.

9. A loose-card book comprising detachable leaves formed of one sheet of paper so folded as to form pockets opening in the same direction on both sides of said leaves for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides, and having said pockets split along one edge to receive a plain extension sheet.

10. A loose-card book comprising leaves formed of one sheet of paper so folded as to form pockets opening in the same direction on both sides of each of said leaves for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides, and having said pockets split along one edge to receive a plain extension sheet.

11. A loose-leaf composed of one sheet of paper so folded as to form pockets opening in the same direction on both sides thereof for the reception of cards, and in such manner as to leave only one thickness of paper between the horizontally adjoining pockets of both sides, and having said pockets split along one edge to receive a plain extension sheet.

12. A loose-card book comprising leaves formed of one sheet of paper so folded as to form pockets opening in the same direction on both sides of each of said leaves for the reception of cards, said pockets being formed alternately, first one on one side and then one on the other side of said leaves until the desired number of pockets are formed, and split along one edge to receive a plain extension sheet.

13. A loose-card book comprising leaves formed of one sheet of paper so folded as to alternately form pockets, first one on one side and then one on the other side of each of said leaves until the desired number of pockets are formed, for the reception of cards, and split along one edge to receive a plain extension sheet.

14. A loose-leaf composed of one sheet of paper so folded as to alternately form pockets, first one on one side and then one on the other side of said leaf until the desired number of pockets are formed for the reception of cards, and split along one edge to receive a plain extension sheet.

15. A loose-card book comprising detachable leaves formed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaves until the desired number of pockets are formed for the reception of cards, and split along one edge to receive a plain extension sheet.

16. A loose-card book comprising leaves formed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaves until the desired number of pockets are formed, for the reception of cards, and split along one edge to receive a plain extension sheet.

17. A loose-leaf composed of one sheet of paper so folded as to alternately form pockets opening in the same direction, first one on one side and then one on the other side of said leaf until the desired number of pockets are formed for the reception of cards, and split along one edge to receive a plain extension sheet.

18. A sheet or leaf containing a series of pockets formed of one continuous strip of flexible material folded so as to form upwardly pointing pockets, alternately, first one on one side and then one on the other side of said sheet or leaf, and split along one edge to receive a plain extension sheet.

19. A sheet or leaf containing a series of pockets formed of one continuous strip of flexible material folded so as to form pockets opening in the same direction, the pockets being alternately formed first one on one side and then one on the other side of said sheet or leaf until the desired number of pockets are formed, and split along one edge to receive a plain extension sheet.

20. In combination with a loose-card leaf, a transparent cover and a U-shaped metal binding crimped thereon having extending edges adapted to receive said cover.

21. In combination with a loose-card leaf, a transparent cover and a U-shaped metal binding having extending edges adapted to receive said cover and provided with an indentation in said extending edges to hold said cover in place.

22. In combination with a loose-card leaf, a transparent cover and a U-shaped metal binding having extending edges adapted to receive said cover and provided with indentations in said extending edges to hold said cover in place, said U-shaped portion also being provided with zig-zag indentations adapted to grip said leaf, all substantially as set forth.

23. A loose-card book comprising detachable leaves formed of one sheet of paper so folded as to form, alternately, pockets, first one on one side and then one on the other side of each of said leaves, all of said pockets opening in the same direction, and a U-shaped metal binding crimped along the edges of said leaves and so arranged at the corners as to allow one piece of the metal binding to extend beyond the adjacent metal binding and be bent over and crimped onto said adjacent metal binding.

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

THOMAS W. THOMAS.

Witnesses:

E. E. HECKBERT,

GEORGE STUMP.