

Oct. 15, 1935.

G. H. DAWSON

2,017,342

LOOSE LEAF BINDER

Filed March 23, 1934

2 Sheets-Sheet 1

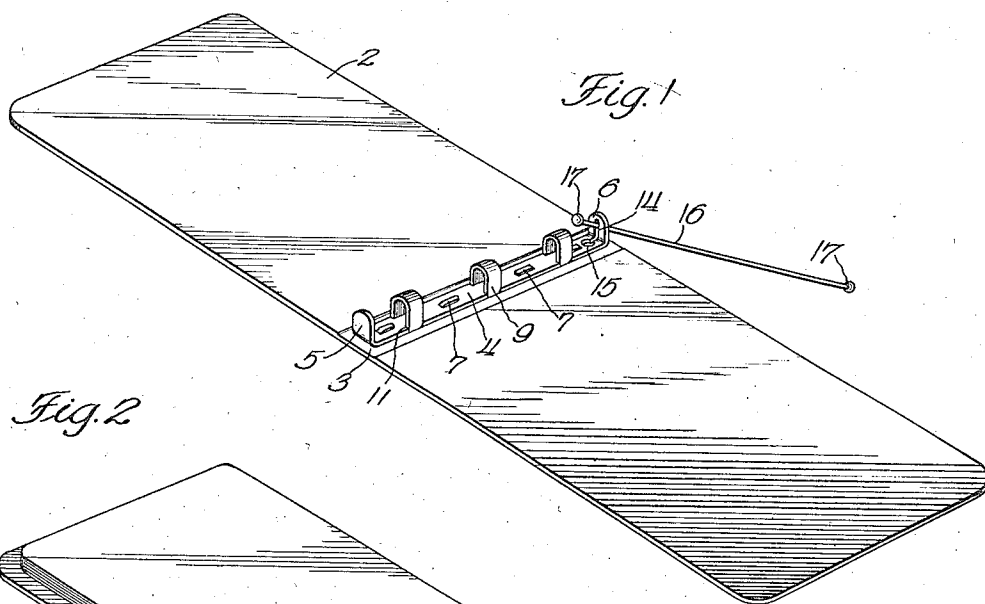


Fig. 2

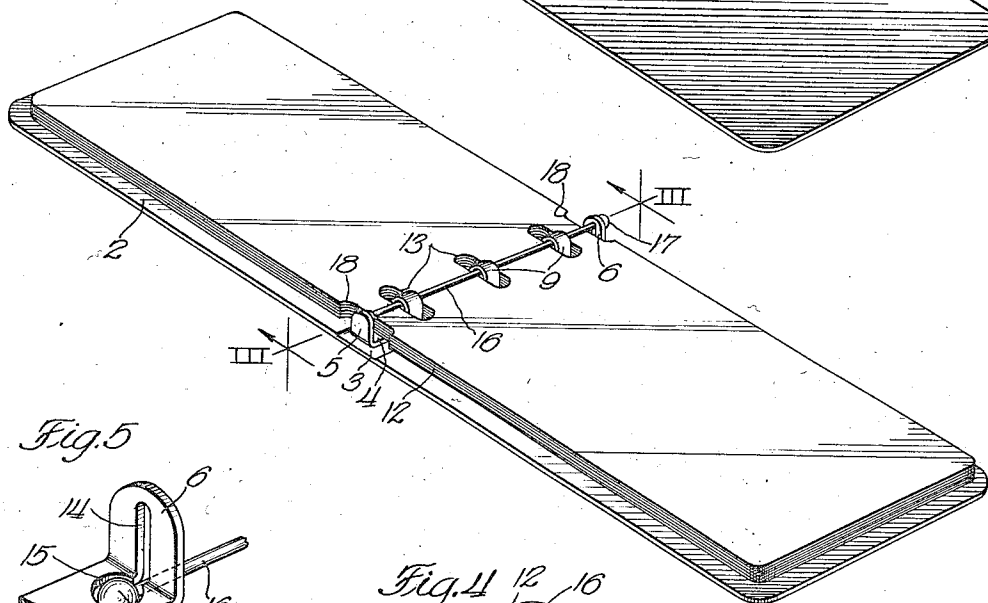


Fig. 5

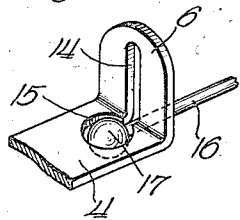


Fig. 4

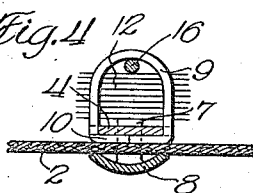
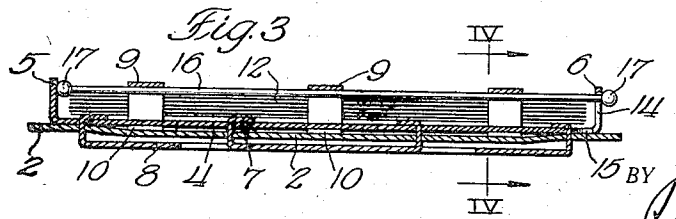


Fig. 3



INVENTOR.
George H. Dawson
BY Benjamin Schlosser
ATTORNEY.

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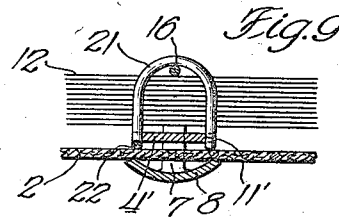
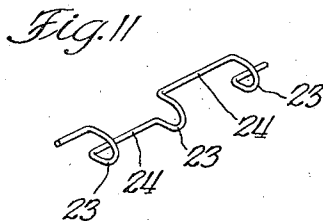
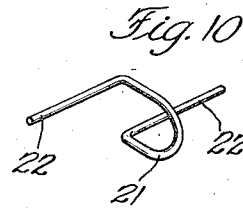
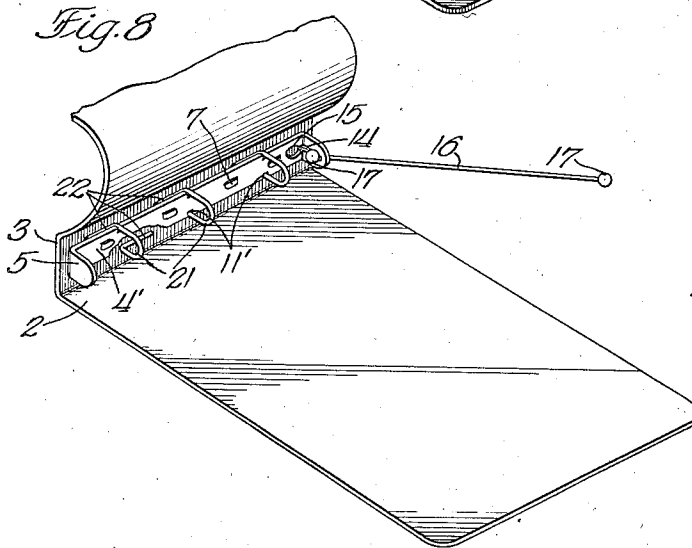
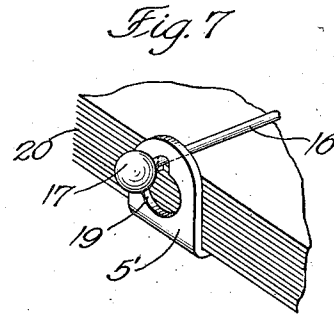
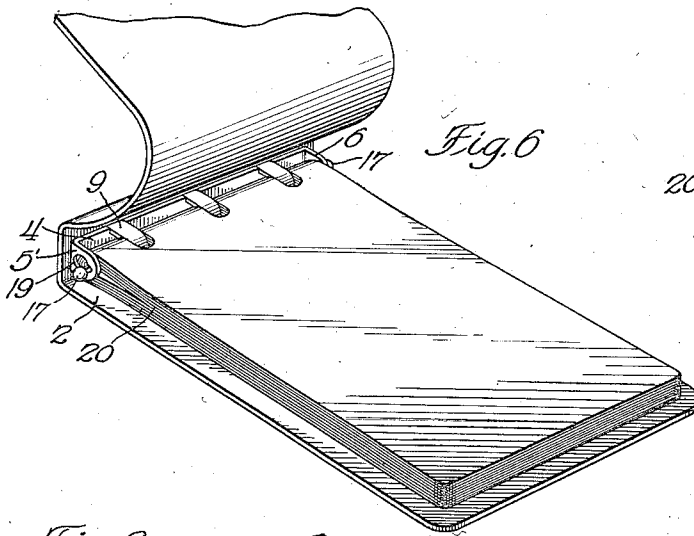
G. H. DAWSON

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LOOSE LEAF BINDER

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2 Sheets-Sheet 2



INVENTOR.
George H. Dawson
BY
Benjamin Schlosser
ATTORNEY.

UNITED STATES PATENT OFFICE

2,017,342

LOOSE LEAF BINDER

George H. Dawson, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts

Application March 23, 1934, Serial No. 716,967

8 Claims. (Cl. 129—38)

This invention relates to a loose leaf binder particularly adapted to retain a filler of sheets in a binder of minimum thickness.

It is an object of this invention to provide a simple and inexpensive loose leaf binder adapted to retain a filler of sheets and which will permit the removal of the entire filler. It is a further object of this invention to provide a loose leaf binder of this type wherein any selected sheets from one filler may be secured in the binder with a different filler. Other objects of this invention will become apparent upon reading the following description taken in conjunction with the accompanying drawings, in which

Figure 1 is a perspective view of a loose leaf binder embodying the invention;

Figure 2 is a view similar to Figure 1 showing the sheets in position in the binder;

Figure 3 is a cross sectional view taken along the line III—III of Figure 2;

Figure 4 is a cross sectional view taken along the line IV—IV of Figure 3;

Figure 5 is an enlarged fragmentary detail view showing the method of securing the sheet retaining wire in position;

Figure 6 is a perspective view of a binder similar to Figure 1 but having means for holding the free end of the wire;

Figure 7 is an enlarged fragmentary detail view of the means for holding the free end of the wire;

Figure 8 is a perspective view of a binder embodying a modified form of sheet retaining loops;

Figure 9 is a cross sectional view of the embodiment of Figure 8;

Figure 10 is a perspective detail view of the sheet retaining loop of Figure 8; and

Figure 11 is a perspective detail view of a modified form of sheet retaining loop.

In the drawings, the reference numeral 2 indicates a cover member which is preferably formed of a single piece of leather, imitation leather or any suitable material. The cover member is preferably skived or grooved transversely along its center line, as indicated at 3, to provide greater flexibility at the lines on which the cover member is folded.

A metal strip 4 having turned up ends 5 and 6 is secured to the cover member 2 by means of tongues 7 projecting through the cover member from another metal strip 8 positioned on the outer side of the cover opposite the metal strip 4. The number of tongues 7 will depend upon the width of the loose leaf binder. The metal strip 8 is preferably curved in cross section to provide rigidity.

The sheet retaining means includes a plurality of closed loops 9, having their free ends 10 clamped between the strip 4 and the cover 2. The edges of the strip 4 are notched, as indicated at 11, Figure 1, to receive the side of the loop 9 so that the outer surface of the loop 9 is flush with the edge of the metal strip 4. The sheets 12 are provided with a plurality of apertures 13 spaced to fit over the loops 9. If desired, the sheets may be provided with a line of perforations spaced below the apertures 13 so that any single sheet may be removed by tearing along the perforations without destroying the security with which the other half of the doubled sheet is retained in the binder.

The end 6 of the metal strip 4 is provided with a narrow slot 14 terminating in an enlarged aperture 15 which is closed by the cover 2 when the strip 4 is clamped to the cover by the tongues 7. A thin wire 16 is provided with a head 17 at each end. The heads 17 are small enough to pass through the aperture 15 but are too large to pass through the slot 14. In assembling the binder, one head 17 is passed through the aperture 15 and the aperture is then closed by clinching the metal strip 4 against the cover so that the wire 16 is confined in the slot 14 by means of the heads 17.

After the sheets 12 have been positioned over the loops 9, the wire 16 is threaded through the loops over the top of the sheets (Figure 2) to hold the sheets securely in the binder. The sheets 12 are notched, as indicated at 18 so that the wire 16 can lie flush against the uppermost sheet and the head 17 will be held in place in the notch 18 by the resilience of the paper. Both edges of the sheets are notched, as indicated at 18, so that the sheets will appear uniform.

When the filler of sheets is to be discarded, the wire is threaded out of the loops 9 and the sheets removed. Another filler may then be inserted in the binder. If it is desired to save some of the old sheets, those sheets may be positioned over the loops along with the new sheets and secured in the binder with the new sheets.

The embodiment of the illustration illustrated in Figures 6 and 7 is a duplicate of that shown in Figures 1 to 5, inclusive, except that the end 5' of the strip 4 is provided with a pear shaped aperture 19. The enlarged portion of the aperture 19 is large enough to permit the head 17 to pass therethrough. The resiliency of the sheets forces the wire 16 into the narrow top portion of the aperture and retains it there with reasonable security. In this embodiment both heads 17 lie outside the turned up ends 5 and 6

of the strip 4 to present a more uniform appearance. The sheets 29 in Figures 6 and 7 do not require the notches indicated at 18 in Figure 2.

The structure of Figures 8, 9 and 10 is similar to that of Figures 1 to 7, inclusive, except that different loops for positioning the sheets and retaining the wire 16 are substituted for the loops 9. As shown particularly in Figure 10, each loop 21 is formed of a single piece of wire bent to have a central loop portion and a pair of legs 22 extending in opposite directions. The strip 4' is provided with a plurality of notches 11' to receive the upright portions of the loop 21 so that the loop is flush with the sides of the strip 4' and the legs 22 are held in place by being clamped between the strip 4' and the cover 2.

It will be understood that the end 5 of the strip 4' may be imperforate, as shown in Figure 8, or may be provided with an aperture 19, illustrated in Figures 6 and 7. Instead of having the legs 22 extend in opposite directions, as shown in Figures 8, 9 and 10, they may be extended in the same direction.

In Figure 11 I have illustrated a multi-loop member 23 that may be substituted for the plurality of loops 21 shown in Figure 8. It is not necessary to make any changes in the structure of the binder in order to use the member 23. If desired, the legs 24 could be arranged diagonally instead of parallel so that each leg would cross from one side of the strip 4' to the other.

While I have described my invention in considerable detail, it will be understood that the description thereof is illustrative, rather than restrictive, as many details may be modified or changed without departing from the spirit or scope of my invention. Accordingly, I do not desire to be restricted to the exact details of construction described, except as limited by the appended claims.

I claim:

1. In a loose leaf binder, a cover member, a metal strip secured in said cover member, a plurality of loops having their ends positioned under said metal strip, and a sheet retaining wire secured to one end of said metal strip and insertable through said loops.

2. In a loose leaf binder, a cover member, a metal strip secured to said cover member, said metal strip having its ends turned upwardly, an aperture in each end, a sheet retaining wire threaded through said apertures, and means on said wire to prevent removal of said wire from one of said apertures, said other aperture being

shaped to permit removal of said wire therefrom.

3. In a loose leaf binder, a cover member, a metal strip secured to said cover member, a plurality of loops projecting above said metal strip, and a wire permanently secured to said metal strip, said wire insertable through said loops to retain a plurality of sheets impaled on said loops.

4. In a loose leaf binder, a cover member, a metal strip secured to said cover member, a wire member having a plurality of horizontal portions positioned under said metal strip and a plurality of loops projecting above said metal strip, and a second wire member insertable through said loops to retain a plurality of sheets impaled on said loops.

5. In a loose leaf binder, a metal strip, a plurality of closed loops projecting above said strip, a wire permanently secured to one end of said metal strip, said wire insertable through said loops to retain a plurality of sheets impaled on said loops, and means to prevent accidental displacement of said wire.

6. In a loose leaf binder, a metal strip having one end turned up, said end being slotted from a point adjacent its top to its base portion, said metal strip having an enlarged aperture adjacent said end terminating in a slot communicating with the slot in said end, a wire extended through said aperture having an enlarged head at each end, and a cover member, said cover member closing said enlarged aperture to prevent removal of said wire after said metal strip and cover are assembled.

7. In a loose leaf binder, a cover member, a metal strip secured to said cover member, a plurality of loops projecting above said metal strip, a plurality of sheets impaled on said loops, a wire positioned between said sheets and the inner surface of the uppermost portion of said loops, and an enlarged head on each end of said wire, said sheets being notched at one edge to form a space adapted to receive the lower half of one of said enlarged heads to help prevent accidental displacement of said wire.

8. In a loose leaf binder, a cover member, a metal strip secured within said cover member, a plurality of loop members having their ends positioned under said metal strip, and a sheet retaining wire engaged with one end of said metal strip and irremovable from engagement with said one end of said metal strip, said wire being insertable through said loops.

GEORGE H. DAWSON.