April 18, 1933. C. D. TRUSSELL 1,904,572

LOOSE LEAF BINDER AND HOLDER FOR WRITING IMPLEMENTS

Filed Feb. 5, 1931

Fig. 1.

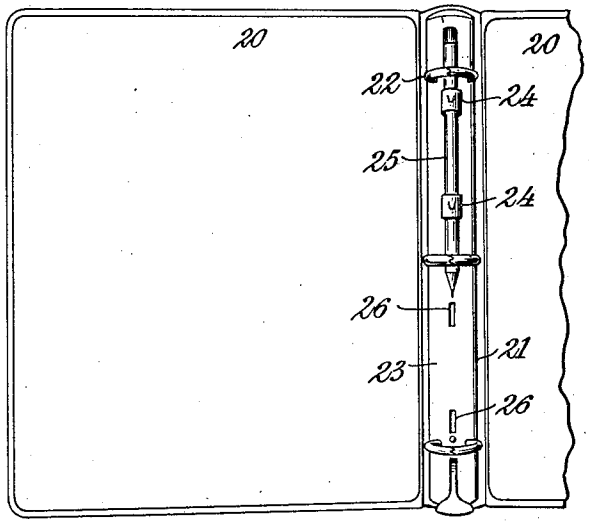


Fig. 10.

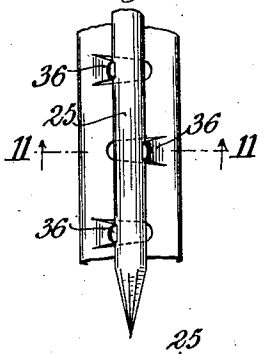




Fig. 11.

Fig. 3.

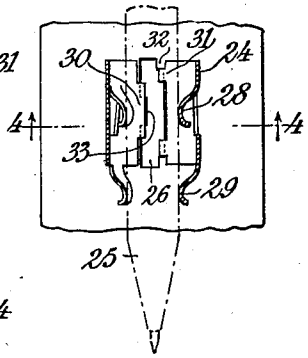


Fig. 4.

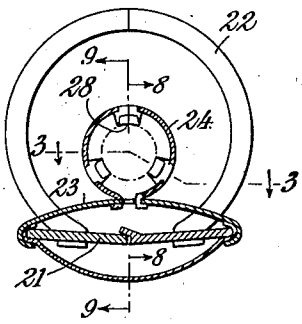


Fig. 5.

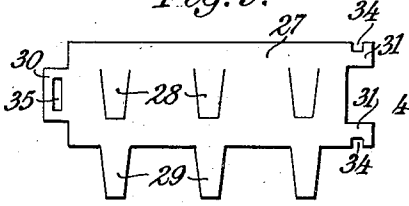


Fig. 7.

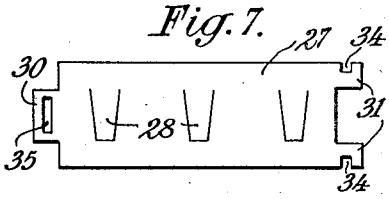


Fig. 2.

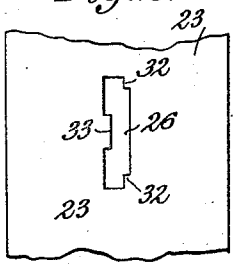


Fig. 6.

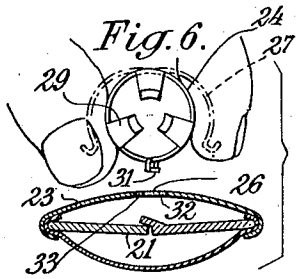


Fig. 8.

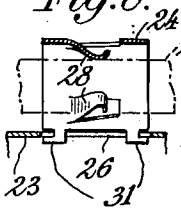
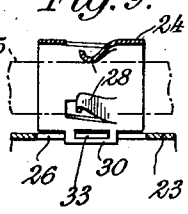


Fig. 9.



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UNITED STATES PATENT OFFICE

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LOOSE LEAF BINDER AND HOLDER FOR WRITING IMPLEMENTS

Application filed February 5, 1931. Serial No. 513,506.

This invention relates to improvements in holders for writing implements which, although adapted for general application, are more peculiarly suited to be used as parts of or attachments to loose-leaf binders.

It is an object of the invention to provide a holder of the above-described character which may be easily secured to a mounting element and as readily detached.

A further object of the invention is to provide a holder which may be mounted upon the cover-plate of the ring mechanism of a loose-leaf binder in a position such that the holder and an inserted writing implement may lie within the space between the inner edges of sheets of paper held by the rings.

A still further object of the invention is to provide the ring mechanism of the loose-leaf binder with a cover-plate having slots or openings therein adapted to receive the clip or clips by means of which a holder for a writing implement may be detachably attached to the metal structure of the binder.

When used in combination with a loose-leaf binder the holder provides a satisfactory means whereby a lead pencil, fountain pen or other writing implement may be secured to the back of the binder ready for use when it is opened. When the binder is closed the holder and the inserted writing implement are housed in the space within the ring structure between the inner edges of the sheets of paper held by the rings and the back of the binder so as to be thoroughly protected. As soon as the binder is reopened the writing implement is readily accessible for use. It might also be inserted and withdrawn from the end of the binder while closed.

In the accompanying drawing illustrating preferred forms of the invention—

Figure 1 discloses the inside of an opened binder having a holder embodying the invention mounted upon the cover-plate of the ring mechanism.

Fig. 2 is a fragmentary view of a portion of the cover-plate for the ring mechanism having a slot therein of the preferred form to provide for the attachment of the holding element for the writing implement.

Fig. 3 is a longitudinal sectional view of one of the holding elements, the section being taken along the line 3—3 of Fig. 4.

Fig. 4 is a transverse sectional view of the holder and the ring mechanism on which it is mounted, the section being taken along the line 4—4 of Fig. 3.

Fig. 5 illustrates a holder embodying the invention as cut from a flat plate in readiness to be bent to a curved form adapted for attachment to a mounting plate.

Fig. 6 illustrates parts of a ring mechanism in cross-section and a holder embodying the invention as compressed between the fingers ready to be inserted in an opening in the cover-plate of the ring mechanism, the normal curvature of the holder before being compressed being illustrated in broken lines.

Fig. 7 illustrates a holding element of the form of the ones disclosed in Fig. 1, the element being shown in the flat ready to be bent to its curved form.

Fig. 8 is a longitudinal sectional view through the holder illustrated in Fig. 7 after it has been bent to its final form and inserted in a mounting plate.

Fig. 9 is a longitudinal section similar to Fig. 8, except that it shows the parts as viewed in the opposite direction.

Fig. 10 is a face view of a modified form of cover-plate for the ring structure of the binder with the invention applied thereto in an alternative form consisting of spring fingers which are integral with the plate.

Fig. 11 is an end view of the cover-plate and holder illustrated in Fig. 10.

In Fig. 1 is illustrated an opened loose-leaf binder having covers 20 and a ring structure 21 including the usual rings 22 and cover-plate 23. A pair of holding elements 24 for a writing implement 25 are indicated as having been mounted upon the surface of the cover-plate by means of clips secured in openings 26 of the cover-plate and held in engagement with portions of the plate surrounding the clips.

In Figs. 3, 5 and 6 of the invention is embodied in a holder comprising a single holding element. In Figs. 7, 8 and 9 the inven-

tion is illustrated in a form which is most effective if two holding elements are used, mounted in tandem relation as indicated in Fig. 1. Figs. 2 and 4 are truly representative of either form of the invention.

Referring first to the form of invention illustrated in Figs. 3, 5 and 6, the holder may comprise a sheet of metal 27 having fingers 28, which may be readily struck from the body portion of the structure, and fingers 29 which may be extended from one of its edges. The ends of the plate may be cut to suitable form to provide holding clips 30, 31. The clips 30 and 31 may be bent into a hook shape with respect to the body of the structure, as best indicated in Figs. 4 and 6, and the body portion may be bent to a curved form with the ends separated, as indicated in broken lines in Fig. 6. The holder thus formed may be inserted in the cover-plate 23 of the binder or in any other suitably-apertured mounting plate by bending the structure into a ring-like form, as indicated in Fig. 6, then inserting the clips in the aperture in the plate, and permitting them to expand, after which the holder will be held in engagement with adjacent portions of the mounting plate, as indicated in Fig. 4.

The fingers 28 may be bent inwardly and their ends gently curved outwardly so as to provide fingers adapted for frictional engagement with the writing implement to be held in the holder. By making these fingers of suitable length the holder may be adapted to receive implements varying in size as much as the size of an ordinary fountain pen differs from that of a lead pencil.

In order that the holder may be inserted in a slot of minimum width, the clips 30, 31 at the opposite ends of the holder may be so disposed as to be in a staggered relation as shown. This disposition of the clips enables them to be moved into alignment, as indicated in Fig. 6, so that the width of the slot 26 need not be materially greater than the lateral width of one of the clips.

As a means of more firmly attaching the holding element to the plate in which it is mounted, the walls at either or both sides of the slot 26 may be provided with inwardly-extending lugs 32, 33, as best indicated in Fig. 2, in which case the clips 31 may be recessed as at 34 to cooperate with the lugs 32 and the clip 30 should be provided with a slot 35 to cooperate with the lug 33. The interengaging relation between the lugs of the walls of the slot and the perforation and recesses in the ends of the holding element when the holder is attached to the mounting plate is best indicated in Figs. 3, 8 and 9.

If two of the holding rings are to be used, as indicated in Fig. 1, they may be constructed in the form illustrated in Figs. 7, 8 and 9, having but one set of fingers 28, the fingers 29 being omitted. It will be apparent, however, that either ring may be provided with fingers like fingers 28 of Fig. 5 or with fingers like fingers 29, or one ring might be provided with fingers like fingers 28 and the other with fingers like fingers 29.

As to either form of ring the use of recesses in the clips 31 and of the cooperating lugs 32 and the use of the slot in the clip 30 and of the cooperating lug 33 is optional. The slot, lugs and recesses may be omitted and simple hook-like clips provided for engagement with rectangular slots like those designated 26 on Fig. 1.

The ring structure of a loose-leaf binder having a cover-plate provided with a slot or opening adapted to receive a holder for a writing implement is of itself regarded as an important feature of the invention, irrespective of the specific nature of holder which may be mounted on the plate. For example, a fountain pen or pencil provided with the inturned spring clip by which the pencil or pen may be secured to the upper edge of a pocket may be readily secured to the cover-plate of the ring structure by inserting the clip in the slot 26 and drawing the pencil and clip in an endwise direction so that the clip will engage the under side of the plate. The slotted cover-plate will, therefore, be broadly claimed as an important feature of the invention herein disclosed.

In Figs. 10 and 11 is illustrated a modified form of the invention in which the holder comprises resilient fingers 36 which may be struck up from the cover-plate 23 with their free ends in opposite directions and bent to an appropriate form to permit the writing implement to be either snapped into a holding relation from the front or inserted endwise.

The invention is not intended to be limited to the specific forms in which it has been herein illustrated and described, but should be regarded as covering modifications and variations thereof within the scope of the appended claims.

What is claimed is:—

1. The combination, with a loose-leaf binder of which the ring mechanism has a cover-plate provided with an opening, of a holder for a writing implement, having a readily detachable, resilient attaching means adapted to be inserted in said opening and held clipped to the adjacent part of said plate by its elasticity.

2. The combination, defined by claim 1, of which the holder and its attaching means comprise a discontinuous circular band of resilient material having outwardly-turned hook-like clips at its ends, the clips on the opposite ends of the band being in a staggered relation so that they may be forced into relative positions of substantial alignment to facilitate their insertion in the opening in the cover-plate.

3. The combination, defined by claim 1, of

which the holder has inwardly-directed resilient holding elements struck from its body portion and adapted for frictional engagement with the writing implement.

4. The combination, defined by claim 1, of which the holder and its attaching means comprise a discontinuous circular band of resilient material having outwardly-turned hook-like clips at its ends, and of which the cover-plate has lugs extending inwardly from the walls of its holder-receiving opening, the clips of the holder being recessed to cooperate with said lugs and thus enhance the firmness of the attachment between the holder and the cover-plate.

5. The combination, defined by claim 1, of which the holder and its attaching means comprise a discontinuous circular band of resilient material having outwardly-turned hook-like clips at its ends, and of which the cover-plate has a lug extending inwardly from one of the walls of its holder-receiving opening, one of the clips of the holder being recessed to cooperate with said lug and enhance the firmness of the attachment between the holder and the cover-plate.

6. A loose-leaf binder of which the ring mechanism has a cover-plate provided with a longitudinal slot to receive the fastening elements of a holder for a writing implement, the portions of the plate immediately surrounding said slot being free from permanent attachment with any other structure.

7. A loose-leaf binder of which the ring mechanism has a cover-plate provided with a longitudinal slot to receive the fastening elements of a holder for a writing implement, portions of the opposite sides of said slot being offset in staggered relation.

8. A holder comprising a band of resilient material having hook-like clips at its opposite ends adapted to be inserted in an opening in a mounting plate and detachably held in engagement with said plate by its own resilience, and having resilient means to frictionally hold a writing implement inserted endwise through said band while in engagement with said plate.

9. A holder, as defined by claim 8, having the clips at its opposite ends staggered to permit them to be moved into a position of alignment by bending the band whereby they may be inserted in a slot of substantially the same width as that of the clips.

10. A holder, as defined by claim 8, having an opening in one of its clips to receive a steadying lug on a mounting plate.

11. A holder, as defined by claim 8 having its clips recessed to cooperate with steadying lugs on a mounting plate.

In witness whereof, I have hereunto signed my name.

CLARENCE D. TRUSSELL.