

May 7, 1929.

B. E. LAWRENCE

1,711,894

LOOSE LEAF HOLDER

Filed Aug. 8, 1927

2 Sheets-Sheet 2

Fig. 3.

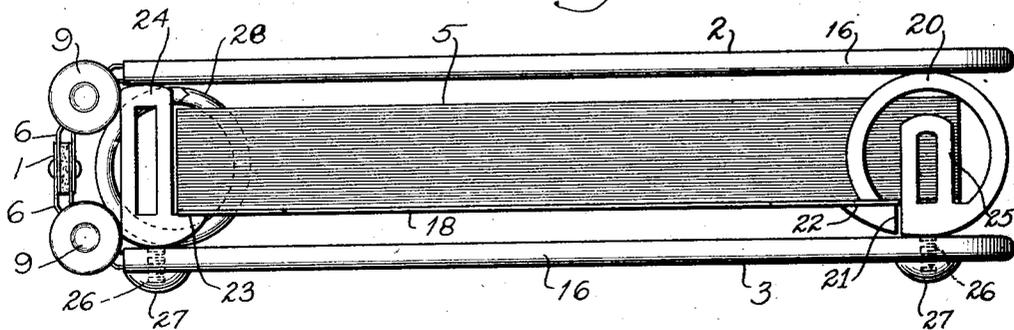


Fig. 5.

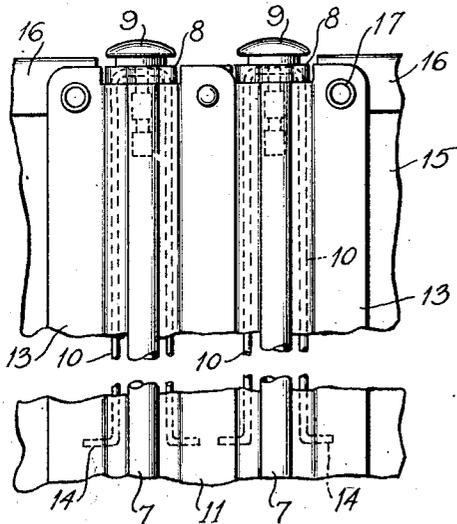
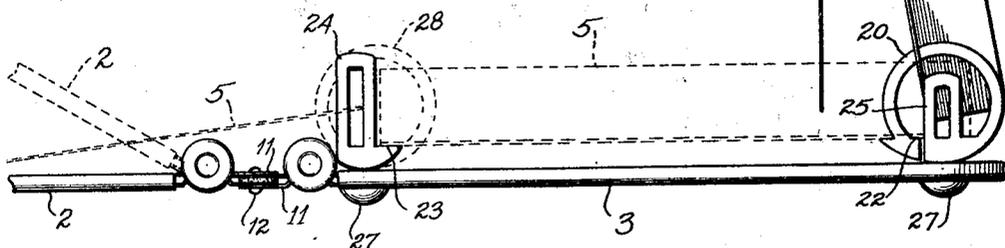


Fig. 4.



Witnesses.

Arthur M. Franke.
W. C. Anderson,

Inventor.

Benjamin E. Lawrence,
By: *Richard H. Anderson*
Attys.

UNITED STATES PATENT OFFICE.

BENJAMIN E. LAWRENCE, OF CHICAGO, ILLINOIS.

LOOSE-LEAF HOLDER.

Application filed August 8, 1927. Serial No. 211,443.

This invention relates to holders for sheets and pads, and particularly to loose-leaf holders.

The main objects of this invention are to provide an improved form of holder for a pad of sheets adapted to permit the uppermost sheet to be readily turned under the pad for possible future reference; to provide improved supporting means for slidably and pivotally connecting the pad to the holder so as to permit the pad to be rocked into a position transverse to one of the covers and at the same time permit the entire pad to move away from said one cover to enable the uppermost sheet to be shifted to the bottom of the pad; to provide a holder having an improved form of back on which the covers are mounted; and to provide an improved holder of this kind which is particularly adapted for use in connection with calendar pads or memorandum pads.

An illustrative embodiment of this invention is shown in the accompanying drawings, wherein:—

Fig. 1 is a plan of an improved holder in its open position and having portions thereof broken away.

Fig. 2 is a perspective of the same.

Fig. 3 is an enlarged end view of the closed holder and pad.

Fig. 4 is a similar view showing the holder open and the pad in a position for shifting the uppermost sheet to the bottom of the pad; part of the top cover being broken away and certain portions of the parts being shown in dotted outline.

Fig. 5 is an enlarged fragmentary view of the back.

Fig. 6 is a fragmentary transverse section of the cover members and connecting back of the holder, the view being taken on the line 6—6 of Fig. 1.

In the form shown, the holder includes a back of improved construction, on which is mounted a pair of hinged covers, one of which serves as a base for an improved mounting adapted to support a pad of sheets or the like.

In the specific embodiment illustrated, the holder comprises a back 1, to which is hinged a top cover 2, and a bottom cover 3 forming a base for an improved mounting 4 which is adapted to support a pad of sheets 5.

The back 1 includes two sections 6 of substantially identical construction. Each of

the sections 6 is somewhat similar in general construction to the cover back shown in my Patent No. 1,552,437, issued September 8, 1925. In the form shown, each of the sections 6 comprises a tube 7 having mounting heads 8 secured to the ends thereof by studs 9 together with a channel member arranged with its back against said tube. Seated in the heads 8, are U-shaped springs 10 arranged to connect the covers 2 and 3 with the tubes 7 and with channel members 11 of the sections 6. The free edges of the channel members 11 are nested together and secured by rivets 12. The arms of the springs 10 extend inwardly into the channels 11 and similar channels 13 forming part of the cover frames and their inner ends are secured against turning relative to the channel members by being bent transversely, as shown at 14. When the covers 2 and 3 are open, the springs 10 are under torsional strain, thereby tending to normally close the holder as shown in Fig. 3. With this improved construction and arrangement of parts, either cover may swing with either one of the arms of either of the springs 10 as a pivot.

As illustrated, the covers 2 and 3 comprise panels 15 mounted in the channels 13 and frame sections 16. The edges of the panels 15 are fitted in the channel sections 13 and 16 and are secured against displacement by rivets 17.

In the form shown, the improved mounting 4 for the pad of sheets comprises a binder plate 18 adapted to support the pad 5, and having apertures 19, which engage a pair of ring members 20 mounted on the base 3 adjacent the outer edge thereof. By means of the ring members 20, the plate 18 is tiltably secured to the base 3 so as to permit the uppermost sheet to be shifted to the bottom of the pad. In addition to its tilting movement, the plate 18 also slides on the ring members 20 in a direction substantially normal to the bottom cover 3 so as to permit an expansion of the storage space between the bottom cover 3 and the plate 18. Formed in the ring members 20, are slots 21, to permit the insertion of the plate 18 before the ring members are attached to the cover 3.

Formed on the ring members 20, adjacent the slots 21, are shoulders 22 for supporting the plate 18 adjacent its outer edge. The plate 18 is adapted to be supported adjacent

its opposite edge by ledges 23 formed on posts 24 mounted on the base 3 adjacent the hinge. The shoulders 22 and ledges 23 support the plate 18 in substantially parallel spaced relation to the base 3.

The posts 24 and ring members 20 are also arranged so as to form stops for limiting the closing of the covers 2 and 3. Formed within the ring members 20, are posts 25 which, with the posts 24, secure the plate 18 against edgewise shifting when the holder is closed.

The posts 24 and ring members 20 are provided with threaded shanks 26 extending through the base 3 and provided with cushion heads 27 to prevent the cover 3 from marring the table or other supporting surface.

Secured to the binder plate 18, adjacent its inner edge, are binder rings 28 for attachment to the pad of sheets 5. These rings are arranged so as to permit the sheets to be transferred from one side of the plate 18 to the opposite side thereof when the plate occupies a position transverse to the base 3, as shown in Fig. 4.

In operation, the calendar or memorandum pad is placed on the plate 18 and secured thereto by the rings 28. When the top sheet has been used, or it is desired to turn to the next sheet, the top sheet is turned over onto the open cover 2. While the covers 2 and 3 are held open, the entire pad 5 is then lifted, by grasping the rings 28, so as to cause the reversed sheet to drop to the opposite side of the plate 18, as shown in full outline in Fig. 4. When the pad is again lowered to its normal position, the used sheet will be below the plate 18, where it may be readily referred to if needed.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that numerous details of the construction shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:

1. A device of the class described comprising a base, a binder plate pivotally connected adjacent one edge thereof to said base and adapted for supporting a pad of sheets on one side thereof, said binder plate being also slidable relative to said base in a direction substantially normal to said base, and a hinge adjacent the opposite edge of said plate for securing the pad to said plate, said hinge being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

2. A device of the class described comprising a base, a binder plate pivotally connected adjacent one edge thereof to said base and adapted for supporting a pad of sheets on one side thereof, means for normally sup-

porting said plate substantially parallel to said base, and a hinge adjacent the opposite edge of said plate for securing the pad to said plate, said hinge being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

3. A device of the class described comprising a base, a binder plate pivotally connected adjacent one edge thereof to said base and adapted for supporting a pad of sheets on one side thereof, means for normally supporting said plate substantially parallel to said base, shoulders for securing said plate against edgewise shifting in its normal position, and a hinge adjacent the opposite edge of said plate for securing the pad to said plate, said hinge being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

4. A device of the class described comprising a base, a ring member mounted on said base, a binder plate pivotally connected adjacent one edge thereof to said ring member and adapted for supporting a pad of sheets on one side thereof, said binder plate being also slidable on said ring member in a direction substantially normal to said base, and a hinge adjacent the opposite edge of said plate for securing the pad to said plate, said hinge being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

5. A device of the class described comprising a base, a pair of ring members mounted on said base, a binder plate pivotally connected to said ring members and adapted for supporting a pad of sheets, said binder plate being also slidable on said ring members in a direction transverse to said base, means for normally supporting said plate substantially parallel to said base, shoulders arranged to secure said plate against edgewise shifting in its normal position, and a binder ring on said plate for attachment to a pad, said binder ring being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

6. A device of the class described comprising a holder including a pair of hinged covers, one of said covers forming a base, a binder plate pivotally connected adjacent one edge thereof to said base and adapted for supporting a pad of sheets on one side thereof, and a hinge adjacent the opposite edge of said plate for securing the pad to said plate, said hinge being arranged to permit the sheets to be transferred from one

side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

5 7. A holder comprising a back, a pair of covers hinged to said back, one of said covers forming a base, a pair of ring members mounted on said base adjacent the outer edge thereof, a binder plate pivotally connected to said ring members and adapted
10 for supporting a pad of sheets, said binder plate being also slidable on said ring members in a direction transverse to said base for varying the distance between said plate
15 for attachment to the pad, said binder ring being arranged to permit the sheets to be transferred from one side of said plate to the opposite side thereof when said plate occupies a position transverse to said base.

20 8. A holder comprising a pair of substantially parallel connected members, a pair of covers hinged to said members, means on said holder for supporting a pad of sheets, and resilient means coacting with said members for normally closing said covers.

25 9. A holder comprising a pair of substantially parallel connected members, a pair of covers hinged to said members, and means on one of said covers for supporting a pad
30 of sheets, part of said means being arranged

to form a stop for limiting the closing of said covers.

10. A holder comprising a back having a pair of transversely nested channel sections secured together, a pair of members arranged in substantially parallel relation on
35 respectively opposite sides of said sections, mounting heads on said members, resilient means connected to said channel sections and said mounting heads, and a pair of covers
40 connected to said resilient means and normally urged thereby into closed position.

11. A holder comprising a back having a pair of transversely nested channel sections secured together, a pair of members arranged in substantially parallel relation on
45 respectively opposite sides of said sections, mounting heads on said members, resilient means connected to said channel sections and mounting heads, a pair of covers connected
50 to said resilient means and normally urged thereby into closed position, and other means on one of said covers for supporting a pad, parts of said other means being arranged to
55 form stops for limiting the closing of said covers.

Signed at Chicago this 4th day of August, 1927.

B. E. LAWRENCE.