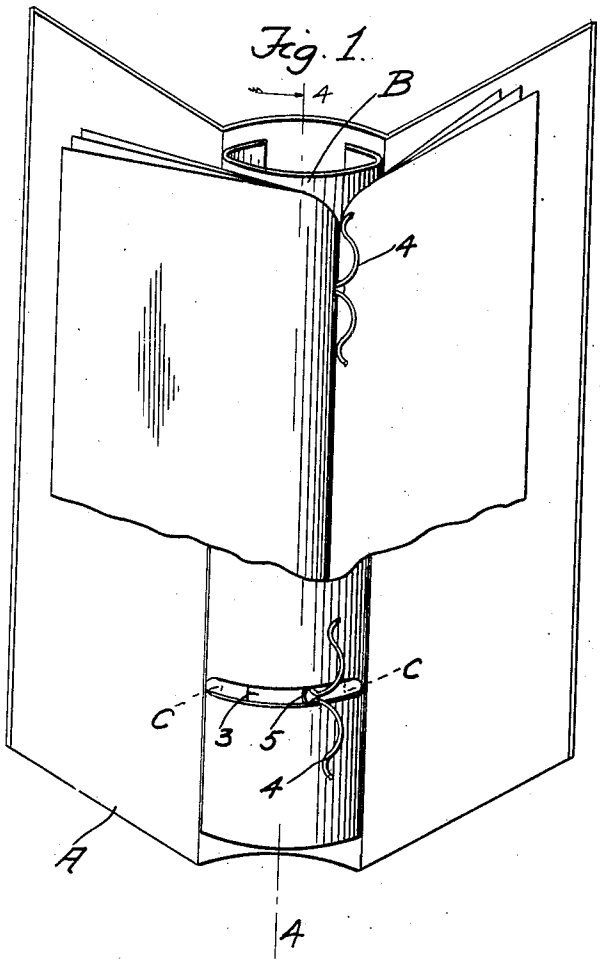
Feb. 23, 1943. F. D. CORNELL ET AL 2,311,641

BINDER

Filed Sept. 30, 1940

Fig. 1.



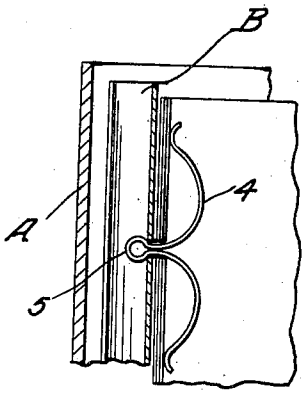


Fig. 4.

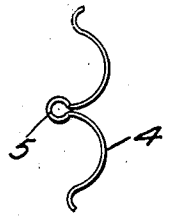


Fig. 2.

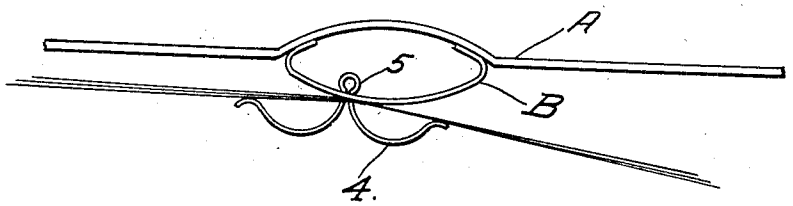


Fig. 3.

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BINDER

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Application September 30, 1940, Serial No. 359,070

11 Claims. (Cl. 129—1)

This invention relates to binders for newspapers, periodicals, forms, sheet music and the like.

It is the general object of the invention to provide simple, inexpensive and convenient means for supporting such folded sheets of paper. It is the further object to provide a binder in which the material to be bound may be inserted and removed without disturbing other similar material held therein. Other objects as well as the many advantageous features of the invention will be readily appreciated upon perusal of the following description of the preferred form of the invention illustrated in the appended drawing, of which:

Fig. 1 shows a partly opened, slightly forwardly tilted binder embodying the invention and illustrating a preferred form of means for supporting folded sheets therein;

Fig. 2 is a side view of a clip by means of which such folded sheets are held locked in position in the binder;

Fig. 3 shows the binder of Fig. 1, substantially as viewed from the top thereof and with the clip of Fig. 2 entered but not yet in final position therein; and

Fig. 4 is a fragmentary front elevational view of the device taken substantially on line 4—4 of Fig. 1.

For the purpose of illustration, a portion of an ordinary ring binder A is disclosed in Fig. 1. Such binders are made with a curved backing B, in which holes C are provided to receive the conventional locking rings. The latter have, in this case, been removed and slots 3 have been cut across the backing from hole to hole. This completes the binder proper.

A clip 4, made from music wire or other suitable spring material, is intermediate its ends made with a loop 5 for insertion into the slot 3. In order to use this clip to lock folded sheets into the binder, it is first necessary to perforate the material to be bound in the center of the fold thereof and thereupon to insert the loop 5 of the clip through this perforation. The clip is then turned crosswise of the fold and pushed into the slot 3, substantially as indicated in Fig. 3. When thereupon the clip again is turned parallel with the fold of the sheets, it is seen that the loop 5 becomes securely locked in position in the slot 3 and that the clip holds the sheets firmly pressed against the backing B. But it is important to note that the clip, carrying the sheets, is free to slide back and forth in the slot.

Ordinarily two slots, as shown in Fig. 1, are sufficient to support the material to be bound, and it is to be understood, of course, that the same type of clip is used in connection with each slot. In case, however, that very large sheets, such as large size newspapers, are to be bound or where sheets, magazines or pamphlets of various sizes are to be assembled in the binder, it may be found preferable or even necessary to provide additional slots.

As stated, the clip must be turned crosswise of the binder in order to insert its loop into the slot. This operation is not objectionable because the folded material may be flattened out when opened to insert the clip. But even when the binder is already partly filled it is desired to enter additional material and it is not possible entirely to flatten out this additional material, it is found that the wire clip yields freely to curves rising from the fold as the material bends over the material already in the binder.

While the preferred form of the invention above described serves to define the scope thereof, it is not intended to limit the invention to the exact form described and illustrated in the drawing, and right is reserved to embody such modifications as will fall within the scope of the appended claims.

We claim:

1. A binder for folded sheets comprising, a backing having transverse slots, and an attachable resilient clip for each slot, said clip having a bit insertable through an opening in the fold of said sheets and through one of said slots against the tension of the clip to lock the folded sheets in position in the binder.

2. A binder for folded sheets comprising, a backing having transverse slots, and an attachable resilient clip for each slot, said clip having a bit insertable through an opening in the fold of said sheets and through one of said slots against the tension of the clip to lock the folded sheets in position in the binder, the clips having freedom of lengthwise movement in the slots.

3. A binder for folded sheets comprising, a backing having transverse slots, and a spring wire clip for each slot, said clip having a loop intermediate its ends insertable against the tension of the wire through an opening in the fold of said sheets and through one of said slots to lock the folded sheets firmly in position in the binder.

4. A binder for folded sheets comprising, a backing having transverse slots, and a slender attachable resilient clip for each slot, said clip

having a loop insertable through an opening in the fold of said sheets and through said slot against the tension of the clip while the clip is held transversely of the fold and parallel with the slot to maintain the sheets locked in position within the binder when the clip is turned lengthwise of the fold.

5. A binder for folded sheets having transverse slots, and a detachable resilient clip for each slot having a loop projectable through a hole in the fold of said sheets and insertable in one of said slots at any point along the length thereof against the tension of the clip to maintain said sheets locked in position.

6. A binder having a perforated backing, in combination with a detachable spring wire having a loop insertable in any one perforation of the backing against the tension of the wire to lock the clip in position thereon.

7. A binder for folded sheets comprising, a backing having transverse slots, a spring wire clip for each slot, the stem of each clip forming two loops directed to one side and having an attachment element intermediate said loops oppositely directed, said element being insertable through an opening in the fold of said sheets and through one of said slots to lock the sheets in position, the said loops maintaining the sheets yieldingly pressed against said backing.

8. In a loose leaf binder, the combination with a backing shaped detachably to hold loose leaf inserts, of a resilient fastener formed intermediate its ends with an attachment element, the fastener being applied by pressing said element through an aperture in the fold of the insert against the tension of the fastener and causing said element to engage the backing of the binder, the tension of the fastener maintaining the fold of the insert yieldingly pressed against the backing.

9. In a loose leaf binder, the combination with a backing shaped detachably to hold loose leaf inserts, of a looped resilient fastener, the looped portion of the fastener terminating intermediate the ends of the fastener in an attachment element, the fastener being applied by pressing said element through an aperture in the fold of the insert against the tension of the fastener and causing said element to engage the backing of the binder.

10. In a loose leaf binder, the combination with a backing shaped to detachably hold loose leaf inserts, of a fastener comprising a looped piece of resilient wire, the looped portion of the wire terminating intermediate the ends of the fastener in an attachment element, the fastener being applied by pressing said element through an aperture in the fold of the insert against the tension of the said looped portion and causing the element to engage the backing of the binder.

11. A fastener for a loose leaf binder consisting of a piece of resilient wire made intermediate its ends with an eye-shaped fastening element from which extend in opposite directions substantially symmetrical arcuate loops.

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