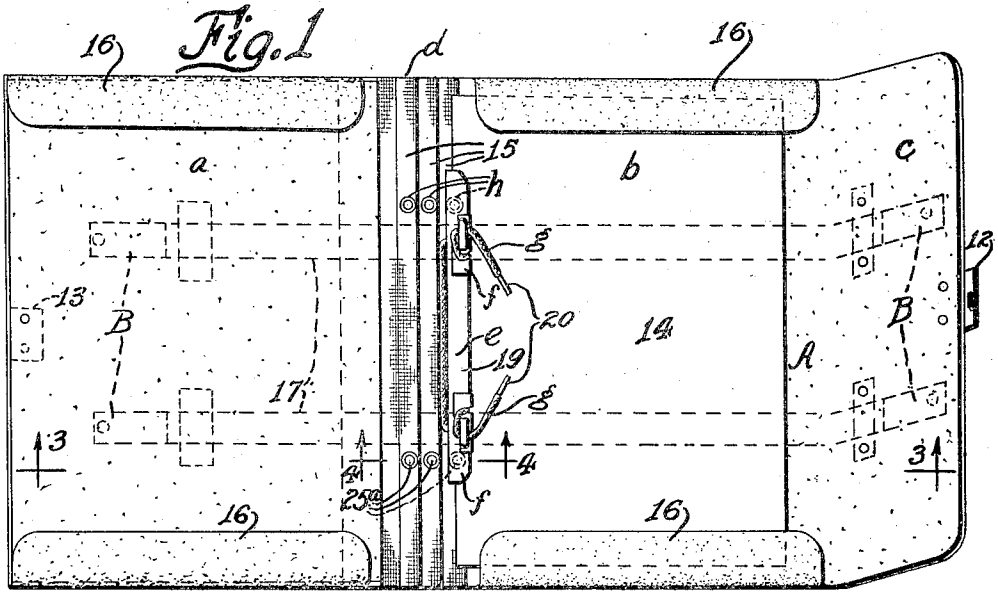
Oct. 19, 1926. 1,603,538

C. A. HELFER

COMBINED PAPER HOLDER, LOOSE LEAF BINDER, AND PERFORATOR

Filed March 7, 1923 2 Sheets-Sheet 1

Fig. 1



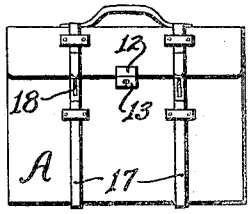


Fig. 2.

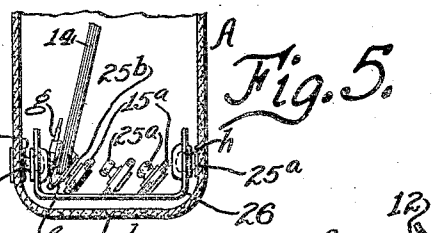


Fig. 5.

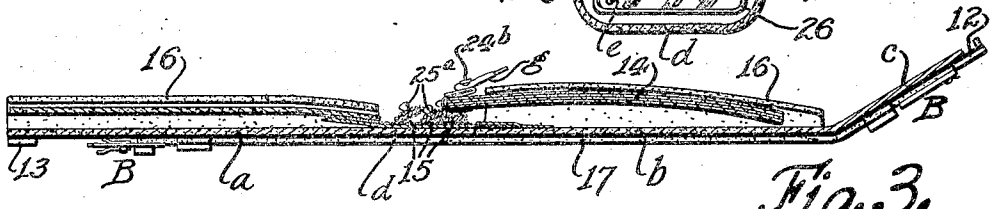
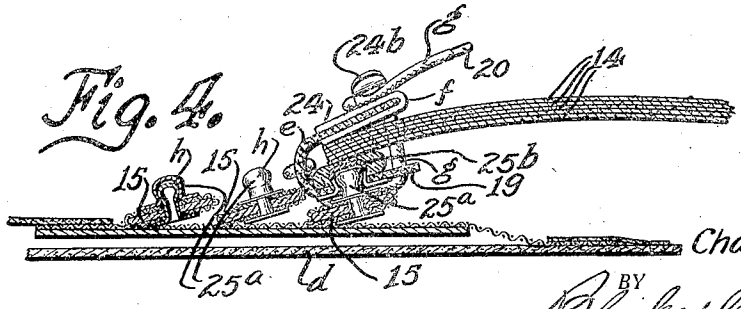


Fig. 3.

Fig. 4.



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Filed March 7, 1923 2 Sheets-Sheet 2

Fig. 6.

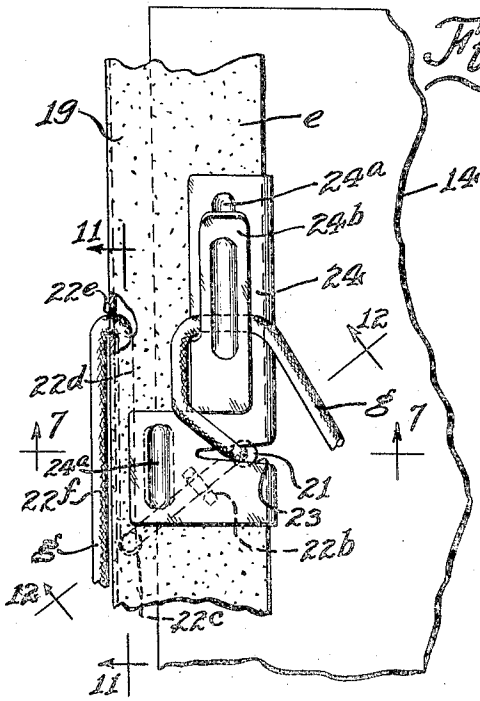


Fig. 7.

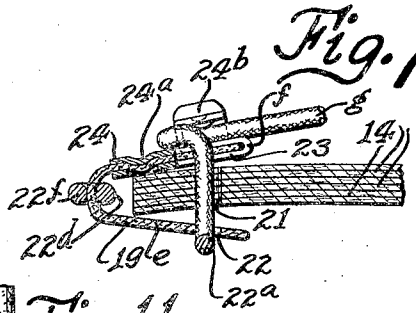


Fig. 11.

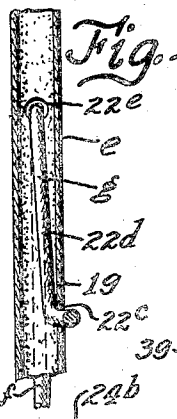


Fig. 9.

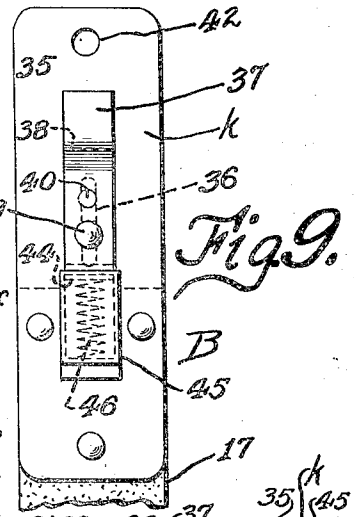


Fig. 8.

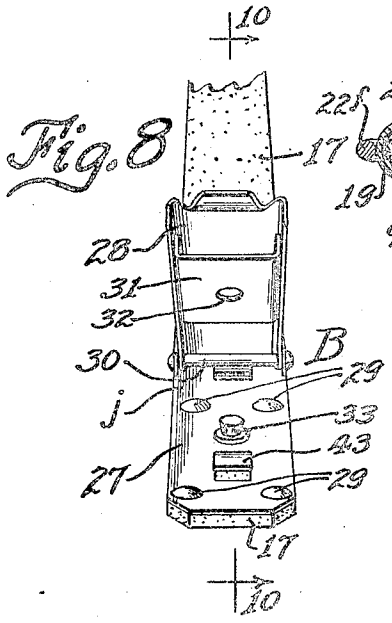


Fig. 12.

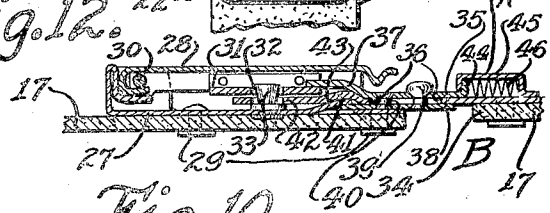


Fig. 10.

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Patented Oct. 19, 1926. 1,603,538

UNITED STATES PATENT OFFICE.

CHARLES A. HELFER, OF LOS ANGELES, CALIFORNIA.

COMBINED PAPER HOLDER, LOOSE-LEAF BINDER, AND PERFORATOR.

Application filed March 7, 1923. Serial No. 623,399.

This invention relates to combined paper holders or cases, loose leaf binders and perforators, and it has for its object to provide improvements of this character which will provide for convenient temporary holding or filing of selected and grouped papers in a holder or case, from which the same, still grouped together under headings or in accordance with classification or selection, may be transferred to other or permanent files for future reference; a suitable perforating device likewise being provided for perforating the sheets or papers so that they may be grouped and fastened together. The invention contemplates the use of a folder, paper holder or case of the usual or any, and preferably, portable form, such as a brief case, which is provided with suitable members of quick detachment means adapted to cooperate with other members of such means secured to a binder member adapted to be applied to the edge portions of paper sheets or cards or the like, such binder member being provided with a string, cord or the like to be passed through perforations in the sheets or the like, and with devices for securing or fastening such string, cord or the like, so as to hold the sheets, cards or the like in connection with the binder member. The holder, case or the like, is provided with a suitable perforating device whereby the perforations may be conveniently formed in the sheets or the like so that they may be associated with the binder member. The members of the quick attaching means which are associated with the holder or case may conveniently be mounted upon flaps either permanently or detachably connected with such holder or case, so that a plurality of binder members may be severally connected with the flaps, and the groups or collections of papers or the like bound together by the several binder members may thus be kept in separate groupings in the holder or case, from which they may be quickly removed either for addition or withdrawal of letters or other papers or the like, or for filing away or other disposition thereof, as above set forth.

The invention has for further objects the provision of an improved device of the general character above stated, which will be superior with respect to relative simplicity and inexpensiveness of construction, taken in conjunction with convenience in use, positiveness and effectiveness and reliability in action, compactness in form, neatness in appearance and durability, and which will be generally superior in efficiency and serviceability.

With the above and other objects in view, the invention consists in the novel and useful provision, formation, construction, combination and association of parts, members and features, all as hereinafter described shown in the drawings, and finally pointed out in claims.

In the drawings:

Figure 1 is an inner face view of an opened or extended paper case or brief case constructed and organized in accordance with the invention and illustrating the use of the invention in the mounting or disposing therein of a binder member with a collection or group of papers associated therewith and to be carried therein, together with perforating means for perforating such papers or the like;

Figure 2 is a face view of the features shown in Figure 1 with the brief case or holder closed up and held in closed condition by suitable fastening or securing devices, the same being upon a reduced scale;

Figure 3 is a fragmentary cross sectional view on an enlarged scale of the structure shown in Figure 1, and taken on the line 3—3 of said figure;

Figure 4 is a fragmentary cross sectional view on an enlarged scale of certain features of the invention, and taken on the line 4—4 of Figure 1, looking in the direction of the appended arrows;

Figure 5 is an enlarged fragmentary view of a modified form of the binder and case or holder;

Figure 6 is a fragmentary enlarged view of part of the construction shown in Figure 1;

Figure 7 is a detail transverse sectional view taken on the line 7—7, Figure 6;

Figure 8 is an enlarged fragmentary perspective view of the combined perforator and strap fastening means shown in Figure 2;

Figure 9 is an enlarged fragmentary plan view of a certain element of the combined perforator and fastener;

Figure 10 is a fragmentary longitudinal sectional view of the combined perforator and strap fastener, the same being taken

on the line 10—10 of Figure 8, the parts being in position to hold together the strap ends;

Figure 11 is a detail transverse section taken on the line 11—11, Figure 6; and,

Figure 12 is a detail transverse sectional view at an angle to the section of Figure 11, and taken upon the line 12—12, Figure 6.

Corresponding parts in all the figures are designated by the same reference characters.

Referring with particularity to the drawings, I have shown at A a brief case or paper holder having two body portions *a* and *b* with one of which is connected an end flap *c*, said body portions being joined by a median portion *d* at which the body is folded together so as to enclose papers or other contents between such body portions *a* and *b*, a fastening device consisting of members 12 and 13 being provided upon the flap *c* and the body member *a* respectively. B designates a perforating device adapted to be mounted in connection with the case A, and serving also, if desired, as fastening means 18 hereinafter described, and is used for perforating the papers or the like 14, which are to be held grouped together in the paper or brief case or holder A by a binder member *e*, of which a plurality may be provided, each to be held, releasably, to the case or binder or holder A at the median portion *d* by one of a plurality of flaps 15 which may be secured in the holder A at such median portions *d* in any preferred manner, being spaced somewhat apart to accommodate groups of papers to be held by the respective binder members *e* of which one is shown in Figure 1. The brief case, paper case or holder A may be provided upon the body portions *a* and *b*, at the sides, with flaps 16 to be turned inwardly within the holder A to overlap the papers or the like 14 positioned or held therein. Likewise the case or holder A may be provided with straps 17 to be passed around the case or holder A when it is closed together, as shown in Figure 2, the end portions of such straps being detachably secured together by suitable devices, as at 18.

Each of the binder members *e* comprises a suitable elongated clip, preferably consisting of a strip 19 of flexible material bent centrally along its greater dimension so as to embrace between it the papers 14 which are to be held by such binder member. At spaced points, securing devices *f* are mounted upon the clip or folded strip 19, the same being adapted to cooperate with a string, cord or other similar device *g*, preferably having end pieces 20 whereby they may be passed readily through the perforations 21 in the sheets or papers or the like 14, each end portion of such string or the like *g* being secured in connection with one of the securing devices *f*. An ordinary shoe string will satisfactorily serve for the device *g*. Such string or cord or the like *g* is provided at each end with the free end portion mentioned, the next portion thereof passes through an opening 22 in the lower portion of the clip or strip 19, as at 22^a, and then extends diagonally under the lower flap of such clip 19, to-wit, the flap other than the one upon which the securing device *f* is mounted, being there suitably fastened to such under flap, as at 22^b, and thence passes through an opening 22^c in the median portion of the clip 19; thence being passed within the fold of the clip or strip 19, as at 22^d for a portion of the length of the securing device *f*, thence being passed through an opening 22^e and extended exteriorly of the clip or strip 19, at its median portion, as at 22^f, and thus constituting the middle portion of such string or cord *g*. Both end portions of the string or cord *g* are arranged and secured and applied and utilized in the same manner. After the free end portion is brought through the perforations 21 in the sheets or papers or the like, it is passed through a tapered slot 23 in the securing device *f*, which latter preferably consists of a sheet or strip 24 of pliable metal bent about the upper portion of the clip or strip 19, at the edge thereof, and suitably secured thereto, as by binding the same firmly to such strip 19 in pinching engagement by indenting the metal, as at 24^a. A part of the metal sheet 24 is bent back upon itself to form a spring tongue 24^b, having its longer dimension ranging substantially at right angles to the slot 21, and beneath which the respective end portion of the string or cord *g* is passed in binding, so that such string or cord is resiliently pinched between the metallic plate 24 and such tongue 24^b thereon, releasably and effectively securing the respective end portion of the string or cord in position with the papers 14 held firmly within the binder member *e*. The binder members *e* may be releasably or detachably connected with the holder or case A, at the median portion *d*, by means of the flaps 15 permanently secured to such case A at said median portion, by quick detachment means *h*, comprising, in one form, resilient or yielding male members 25^a and female members 25^b for receiving the same, the male members being preferably mounted upon the flaps 15 and the female members upon the binder or binders *e*.

In Figure 5 is shown a modified form of the case or holder A, which may be similar to the form shown in the other figures, with the exception that the median portion *d* at which the fold in the case occurs, is not provided with the fixed flaps 15, but flaps 15^a are provided mounted upon a flexible back strip 26 ranging transversely of the case or holder and detachably connected there-

with by quick detachment means *h* similar to those shown in the other figures, and arranged at the edge portions of said strip 26, each of the flaps 15ª having two male members 25ª such as previously described and shown in the other figures for detachably entering female members 25ᵇ mounted upon the binder or clip *e* which is detachably applied to the respective flap by such quick detachment means having such two members. Thus a case or holder may be provided with members 25ª of such quick detachment means, and the plurality of flaps 15ª connected with such case in a group, by connecting the back strip 26 with the case through such quick detachment means, and the several binders *e* may by similar quick detachment means be connnected with or detached from such several flaps 15ª.

The combined perforator and fastener B comprises in the main a cage *j* formed in two parts 27 and 28. The parts 27 and 28 are relatively movable and the part 27 is adapted to be secured to one of the strap ends 17 by means of rivets or otherwise, as shown at 29. The member 28 is hingedly connected with the member 27 through the medium of a suitable pin 30 which is maintained in position by means of lugs carried by the members 27 and 28. The member 28 likewise carries a plate 31 provided with an opening 32, the plate 31 being termed the punch plate and the member 27 carries a stud 33 termed the punch stud, which stud may enter through the opening 32 when the part 28 is revolved about the hinge portion. The punch plate 31 may be U-shaped in form and spaced from the inner surface of the member 28 so that punchings may be readily removed from between the members 31 and 28. To secure the ends of the straps 17 to the device A, the opposite ends of the straps 17, as shown at 34, carry members *k* which are adapted to cooperate with the cages *j*. The member *k* includes a plate 35 formed with a longitudinal slot 36, and adapted for sliding engagement on opposite sides of said plate 35, are members 37 and 38, said members 37 and 38 being interconnected by means of a stud 39 attached to said members 37 and 38 and passed through the slot 36 of the plate 35. The member 39 has an enlarged head so that the said member may be readily grasped by the end of the finger. A rivet member 40 spaced from the member 39 may likewise be provided for further ensuring proper connection and association between the members 37 and 38. The plate 35 is formed with a slight bulge at 41, and is provided with an opening 42 which may have the stud 33 passed therethrough when it is desired to lock the ends of the strap 17 in working relation. The members 37 and 38 are adapted to engage with the cage *j*, the member 38 engaging with the part 27 and particularly with a clip 43 associated therewith, while the member 37 is bent so as to engage with the member 31. The member 37 is provided with a flanged extremity 44 received within a housing 45, said housing being associated with a portion of the plate 35, and said flange is directly acted upon by a compression spring 46 carried within said housing. When it is desired to lock the ends of the strap 17 together the member 28 is raised into position substantially as shown in Figure 8, and the end of the finger contacts with the studs 39 and moves the members 37 and 38 backwardly away from the end of the plate 35 so as to compress the spring 46. This will permit the stud 33 to be passed through the opening 42 in the plate 35; and a releasing of the stud 39 upon swinging the member 28 to what may be termed a closed position, as illustrated in Figure 10, will permit the member 38 to engage the bottom surface of the member 43 and likewise a surface of the member 31. A locked relation will then exist between the members *j* and *k*. To release the strap ends, the operation just described is repeated, save in reverse order, that is, the stud 39 is moved backwardly so as to release the members 37 and 38 from engagement with the members 43 and 31 respectively.

Of course the separate binders *e* with their grouped papers may be detached from or applied to the case or holder A, as by the quick detachment means *h*, for the purpose of permanent filing or other disposition or for temporary use when in the holder.

It is obvious that various changes and modifications may be made in practicing the invention, in departure from the foregoing description and showing of the drawings, without departing from the true spirit of the invention.

Having thus disclosed my invention, I claim and desire to secure by Letters Patent:

1. A case or holder for papers, a paper binder, and means for detachably mounting the same therein; said means comprising a flap within the holder, and quick detachment means having members upon said binder and said flap respectively.

2. A case or holder for papers provided with a plurality of means for detachably mounting grouped papers therein; each of said means comprising a separate flap, a paper binder, and means for detachably connecting each binder with its flap.

3. A case for papers provided at a portion thereof with a flap, a binder member comprising a folded strip, means detachable engagement thereof with the said flap, and means for securing a sheet of paper within such binder member.

4. A case for papers adapted to be folded

at a median portion, a series of flaps associated with such case at such median portion, binder members comprising folded strips and means detachably securing such binder members to the flaps.

5. A case for papers adapted to be folded at a portion thereof, a series of flaps, means detachably securing such series of flaps to the case at such folded portion; binder members comprising folded strips and means for detachably associating same with the flaps, said binder members being adapted to hold papers or the like.

6. A case for papers adapted to be folded at a portion thereof, a series of flaps, means detachably securing such series of flaps to the case at such folded portion; binder members comprising folded strips and means for detachably associating same with the flaps, and securing devices carried by the binder members for securing papers or the like to such binder members.

In testimony whereof, I have signed my name to this specification.

CHARLES A. HELFER.