J. R. TURNER.

TEMPORARY BINDER.

APPLICATION FILED AUG. 1, 1914.

1,132,230. Patented Mar. 16, 1915.

Fig. 1.

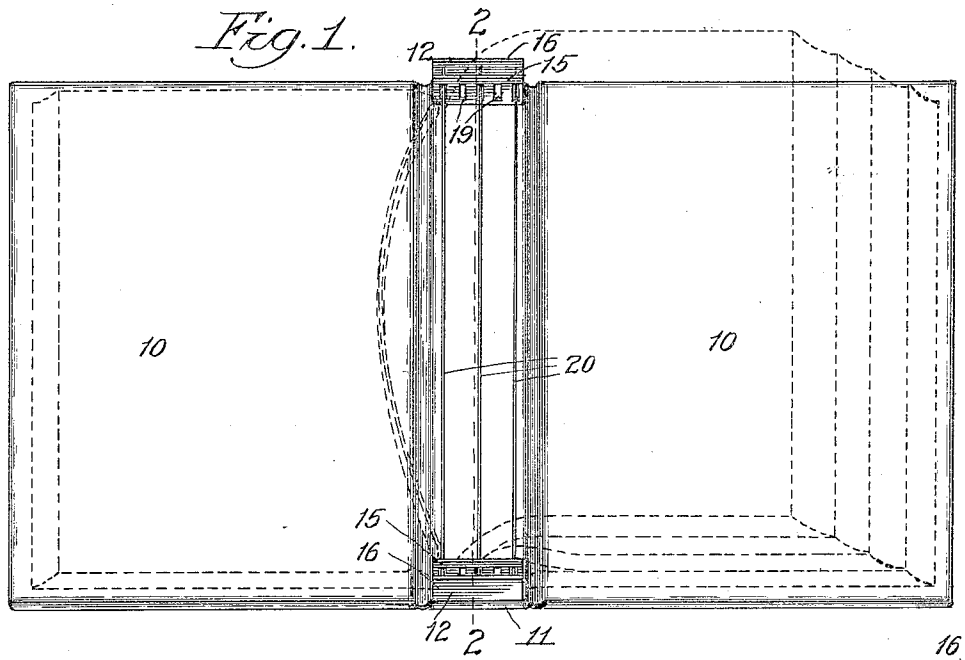


Fig. 2.

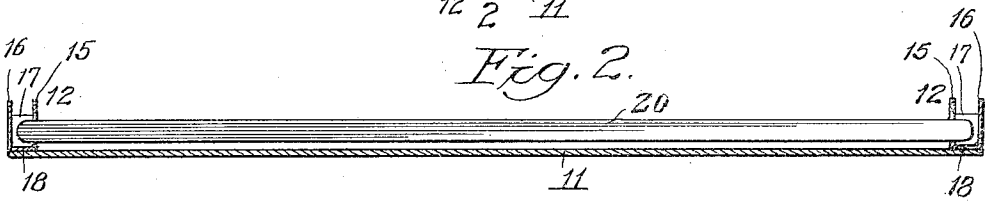


Fig. 4.

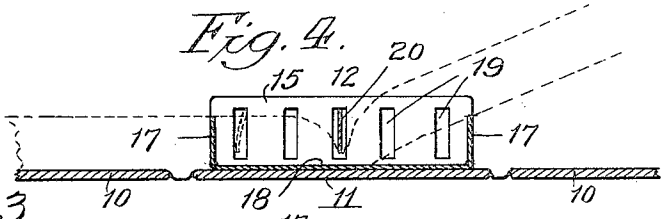
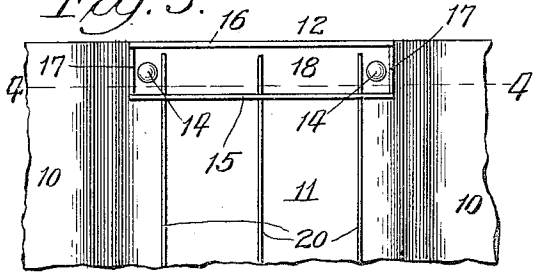


Fig. 3.



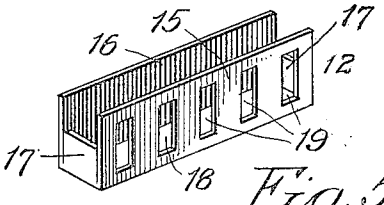


Fig. 5.

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UNITED STATES PATENT OFFICE.

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TEMPORARY BINDER.

1,132,230. Specification of Letters Patent. Patented Mar. 16, 1915.

Application filed August 1, 1914. Serial No. 854,437.

To all whom it may concern:

Be it known that I, JAMES R. TURNER, a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Temporary Binders, of which the following is a full, clear, and exact description.

The invention relates to temporary binders and more particularly to those in which one or more flexible strips are employed to hold a magazine, paper or the like, in a cover.

One object of the invention is to provide an improved temporary binder in which one or more resilient, flexible blades or strips are removably held at both ends so that no permanent attachment between the blades or strips is necessary, thus dispensing with the cost of connecting these strips to one end of the binder. The invention attains this object by providing a plate or bracket at the top and a similar plate or bracket at the bottom of the cover-back into which the end of the blades or strips may be inserted when bowed or bent and whereby they will be removably held so that the blades will hold the book or paper.

Another object of the invention is to provide a resilient strip or blade which is adapted to be inserted into a plate on the cover by bowing the blade to bring its terminal inwardly of the plate and then releasing it so its terminal will extend into the plate.

Another object of the invention is to provide improved holding brackets or plates for the strips whereby they will be removably held.

Lastly, the invention is designed to provide an improved temporary binder which is simple in construction, efficient in operation and can be produced at a low cost.

The invention consists in the several novel features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings: Figure 1 is a perspective of a temporary binder embodying the invention. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is a plan of a portion of the binder. Fig. 4 is a section taken on line 4—4 of Fig. 3. Fig. 5 is a perspective of one of the brackets for holding the strips.

The temporary binder usually comprises a cover consisting of sides 10, and a connecting back 11 of suitable size to hold the desired magazine or the papers. At each end or at the top and bottom of the back, there is secured by rivets 14, bracket 12. Each of these brackets is preferably formed of a single sheet of metal bent to form an inner wall 15, an outer wall 16, side walls 17 and a bottom wall 18. The inner wall 15 is provided with a series of elongated holes 19, each adapted to receive one end of a resilient holding strip or blade 20, which is formed of a flat strip of spring metal, the ends of which, when placed in holes 19, will be held against sufficient longitudinal movement to prevent them from slipping out of the brackets by the stop-walls 16 of the brackets 12. Normally, the strips are greater in length than the distance between walls 15, so that they will span the space between said walls with their ends extending outwardly therefrom.

The bound back of the book or pamphlet is placed on the back 11 of the cover with the top and bottom edges of the leaves disposed adjacent and between the inner walls of brackets 12 respectively. Each strip or blade 20 is adapted to be bowed, as indicated by dotted lines in Fig. 1, for the insertion of its ends into holes 19 of the brackets and their removal therefrom. To insert a strip to hold the papers or book in the cover, one end of the strip is placed in one of the brackets and then it is bowed or bent so that the other end thereof will be brought inwardly sufficiently to enter the oppositely disposed hole 19 in the oppositely disposed bracket, or the strip may be bowed sufficiently to simultaneously bring both of its ends inwardly of walls 15 of the brackets, respectively. When the strip has been thus bowed and is released, it will assume a straight position and fit between the leaves of the matter being bound and will be held straight by the leaves. To replace the book, it is only necessary to grasp the central portion of the strip and bend or bow it laterally so that one of its ends will be withdrawn and then the strip can be swung about its other end away from the book sufficiently to permit longitudinal withdrawal from the oppositely disposed hole. Holes 19 are preferably made a little wider than the thickness of the strip so as to fit loosely around the strip, so that the strip can be turned slightly, as indicated by dotted line in Fig. 4, to facilitate the insertion and removal of the strip when the book is in place.

Side walls 17 of brackets 12 serve to con-

fine the ends of the strips to the space between walls 15 and 16 during insertion of a strip in the end holes 19. Walls 16, besides serving as stops, serve as guards for the outer ends of the strips to prevent them from catching on anything and to prevent the outer ends of the strips from being accidentally displaced inwardly.

In some instances, a single strip placed in the center of a pamphlet or magazine will suffice to hold it in the binder and any desired number of these strips may be used.

The invention thus exemplifies a temporary binder in which both ends of the holding strips are removably held in the brackets at the top and bottom of the back of the cover, so that no permanent or pivotal connection is necessary, and in which either end of the strip may be withdrawn from its holding-means by bowing the strip. Furthermore, by providing a number of holes 19 in each of the inner walls 15 of the brackets, the strips may be placed in different holes or placed in different lateral positions with respect to the back of the cover. For example, if but a single blade is necessary to hold the book, it may be placed in the centrally disposed holes and all other strips may be removed. The brackets are each formed of a single sheet of metal and may be produced at a very low cost.

The invention is not to be understood as restricted to the details set forth, since these may be modified within the scope of the appended claims, without departing from the spirit and scope of the invention.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:

1. A binder comprising a back, a strip-holding device at each end of the back, one of which has a hole therein and a flat resilient holding strip formed so it may be bowed to bring one of its ends inwardly of its holding-device and to spring outwardly into said hole, and being removable from said device by bowing it to withdraw one end inwardly and out of said hole, said hole being larger than the flat strip to permit the strip to be turned to facilitate its withdrawal and insertion.

2. A binder comprising a back, a strip-holding device at each end of the back having a hole therein and a flat resilient holding strip formed so it may be bowed to bring its ends inwardly of said devices, and to spring outwardly into said holes and being removable by bowing it to withdraw its ends inwardly and out of said devices, said holes being larger than the flat strip to permit the strip to be turned to facilitate its withdrawal and insertion.

3. A binder comprising a back, a one-piece bracket at each end of the back, having an inner wall with a hole therein, an outer stop-wall and a connecting bottom wall, secured to said back, and a resilient holding strip having its ends formed to pass outwardly through said holes and being removable therefrom by inward withdrawal from the holes and bending of the strip.

4. A binder comprising a back, a bracket at one end of the back having an inner wall with a hole therein, side walls, and a bottom-wall secured to said back, and a resilient holding-strip formed so it may be bowed to bring one of its ends inwardly of said hole and having one of its ends formed to pass outwardly through said hole and being removable therefrom by inward withdrawal of said end through the hole and bending of said strip, and means for holding the other end of the strip.

5. A binder comprising a back, a one-piece bracket at each end of the back, each bracket having an inner wall with a hole therein, an outer wall, a bottom wall secured to said back and side-walls, and a resilient holding strip formed so that it may be bowed to bring its ends inwardly of said holes and having its ends formed to pass outwardly through said holes and being removable by bowing it to withdraw its ends inwardly from said holes.

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Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."