Dec. 8, 1925. 1,564,772

E. H. FISCHER

POST FASTENING FOR LOOSE LEAF BINDERS

Filed Dec. 12, 1922

Fig. 1.

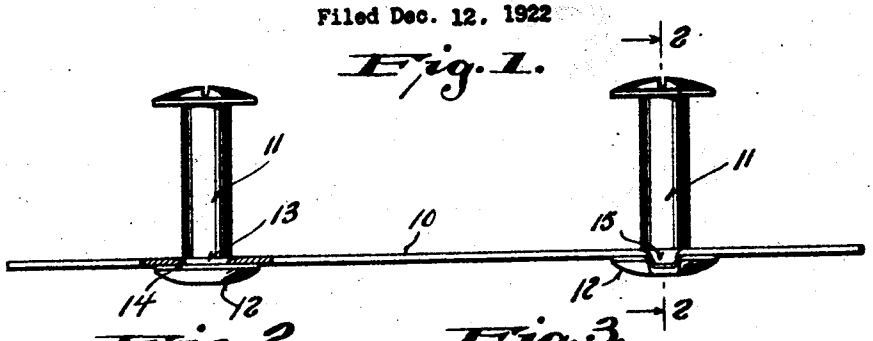
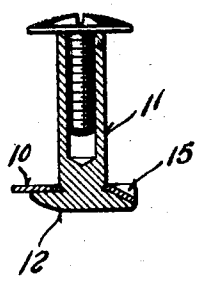


Fig. 2.

Fig. 3.



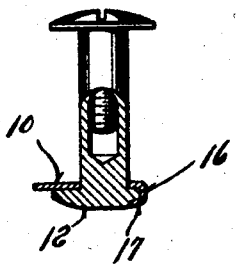
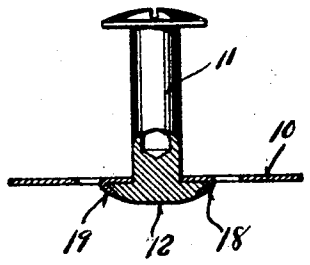
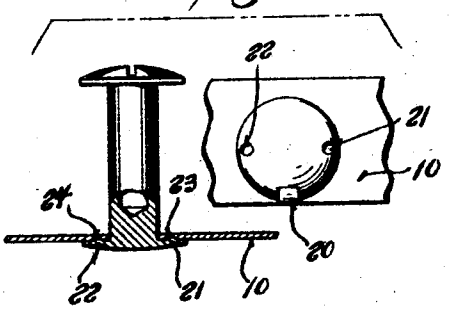


Fig. 4.

Fig. 5.





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UNITED STATES PATENT OFFICE.

EMIL H. FISCHER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO H. C. MILLER CO., OF MILWAUKEE, WISCONSIN, A CORPORATION OF WISCONSIN.

POST FASTENING FOR LOOSE-LEAF BINDERS.

Application filed December 12, 1922. Serial No. 606,407.

To all whom it may concern:

Be it known that I, EMIL H. FISCHER, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Post Fastenings for Loose-Leaf Binders; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to post fastening devices which are more particularly adapted for securing the coupling posts to the binding strip of a loose leaf binder.

The general objects of the invention are to provide improved means for securing the post to the strip in a manner which will effectively prevent the same from becoming detached or loosened, and more particularly to provide means for positively preventing longitudinal and rotary movement thereof.

In describing my invention, reference will be had to the accompanying drawing, in which—

Figure 1 represents a side elevation of a binder strip with my invention embodied therein, a portion thereof being shown in section.

Figure 2 is a transverse sectional view on the line 2—2 of Figure 1.

Figure 3 is a similar view of a modified form of the invention.

Figure 4 is a similar view showing a further modification, and

Figure 5 shows sectional and bottom plan view respectively, of a further modification of the invention.

Referring more particularly to the drawing, the numeral 10 designates a binder strip to which a coupling post 11 is secured with its head 12 abutting against the under side thereof.

In the form illustrated in Figures 1 and 2, the post 11 is provided with a circumferential kerf 13, adjacent the head 12, and the post is secured by stamping the edges of the strip into the kerf, thus effectively preventing the removal of the post. By the same operation, a tongue 15 may be stamped out of the strip and into the head 12 so as to prevent any possible rotation of the post.

In the modification shown in Figure 3, the strip 10 may be formed with a flange 16 adjacent which the head 12 is formed with a flattened side. In securing the same, a tongue 17 is stamped out of the flange 16 and into the head 12, thus effectively securing the same against longitudinal or rotary movement.

In the form shown in Figure 4, a pair of tongues 18 and 19 are stamped out of the strip 10 adjacent the head 12, and are folded inwardly and stamped into the head.

In the modification shown in Figure 5, a tongue 20 is folded over the head to secure the post against longitudinal movement, and a pair of recesses 21 and 22 are stamped into the surface of the head and form corresponding projections 23 and 24, which engage corresponding recesses in the strip 10 and effectively prevent rotation of the post.

It will be seen that all of the forms above described are broadly for the same purpose and embody the same inventive principle, that is to say, they form keys to prevent longitudinal or rotary movement of the post, and are of simple construction which may be formed by a single stamping operation.

It will also be readily observed that other minor modifications may be made and I do not therefore, wish to be limited by the precise structure shown, but I wish it understood that the invention comprises all equivalents which fall within the scope of the appended claims.

I claim:

1. In a loose leaf metallic binder, a binder strip having a coupling post extending upwardly therethrough with the head of the post in engagement with said strip, the post being formed with a circumferential kerf adjacent the head, the material of the strip being stamped into said kerf, and means for preventing rotary movement of the post with respect to the strip.

2. In a loose leaf metallic binder, a binder strip having a coupling post extending therethrough with the head of the post abutting said strip, and means for keying said post against both longitudinal and rotary movement with respect to the strip.

3. In a loose leaf binder, a binder strip having a coupling post extending upwardly therethrough with the head of the post in engagement with said strip, the material of the strip and post being stamped together to form keys preventing both longitudinal and rotary movement of the post with respect to the strip.

4. In a loose leaf binder, a binder strip having a coupling post extending upwardly

therethrough with the head of the post in engagement with said strip, the post being formed with a circumferential kerf adjacent the head, the material of the strip being stamped into said kerf, and a lip cut from the strip and stamped into the head of the post to form a key preventing it from rotary movement with respect to the strip.

5. In a loose leaf binder, a metallic binding strip, a coupling post having an enlarged integral head and a kerf circumferentially surrounding said post immediately adjacent said head, said post projecting through said strip with the head in contact with one side of said strip, said strip being swaged into said kerf, and means for preventing relative rotary motion of said post and strip.

6. In a loose leaf binder, a metallic binding strip, a coupling post having an enlarged integral head and a kerf circumferentially surrounding said post immediately adjacent said head, said post projecting through said strip with the head in contact with one side of said strip, said strip being swaged into said kerf, said integral head having a cutout portion, and said strip having a lip pressed into said cutout portion, whereby said post is prevented from longitudinal motion by the swaging of the metal strip into the kerf, and whereby said strip is prevented from rotary motion by the interlocking of the lip of the strip with the cutout portion of the post head.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

EMIL H. FISCHER.