March 29, 1932. S. KIELAR 1,851,633

FASTENING DEVICE

Filed Feb. 24, 1931

Fig. 1

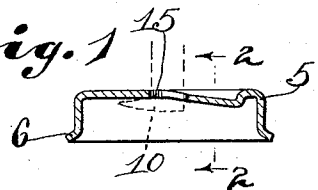


Fig. 2

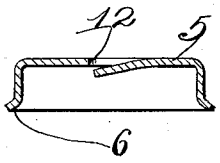


Fig. 3

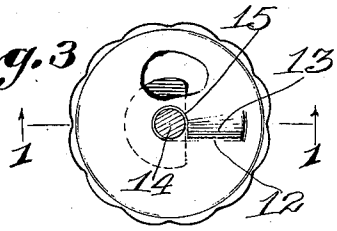


Fig. 6

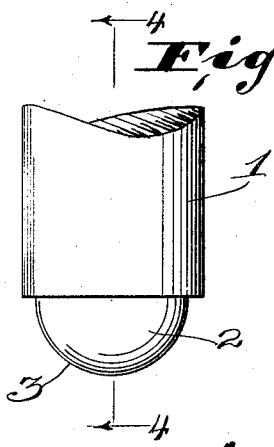


Fig. 7

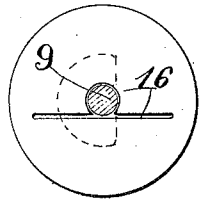


Fig. 4

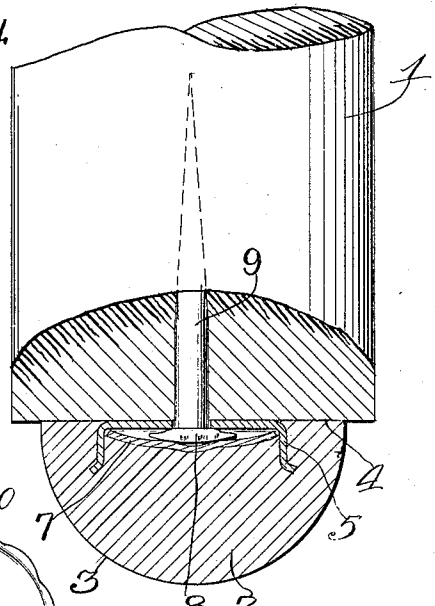
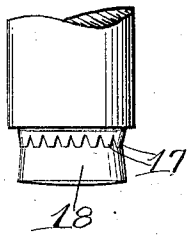


Fig. 8



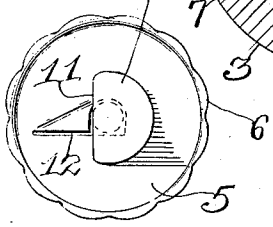


Fig. 5

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UNITED STATES PATENT OFFICE

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FASTENING DEVICE

Application filed February 24, 1931. Serial No. 517,725.

This invention relates to improvements in furniture pads.

One of the objects of the present invention is the provision of an improved type of furniture pad which is applicable to chairs, tables, or any other piece of furniture, or the like, where a buffer pad is desirable to protect the furniture, as well as the woodwork.

Another object of the present invention is the provision of a furniture pad, the body of which is of rubber, felt, or any other similar yieldable material, and has embodied therein a retaining plate provided with a central opening and a tangent slot whereby the head of a fastening element can be engaged with the slot and turned around beneath the plate and then connected with the furniture or woodwork, as the case may require.

A still further object of the invention is the provision of a furniture pad, wherein the element which is used for connecting the pad to the furniture or woodwork is so attached to the pad as to become a permanent part thereof, although the pad and the fastening elements are ordinarily two separate members, thus when the pad is attached to the bottom of a chair leg, or table leg, or to other pieces of furniture, the pad is permanently retained in position and cannot be removed until it is desired to replace the same with a new pad.

With the above and other objects in view, the invention consists in the novel features of construction, the combination and arrangement of parts hereinafter more fully set forth, pointed out in the claims and shown in the accompanying drawings wherein:

Figure 1 is a detailed section on the line 1—1 of Figure 3, illustrating the metal cup or retaining plate;

Figure 2 is a detailed section on the line 2—2 of Figure 1; and,

Figure 3 is a plan view of the retaining plate, with parts thereof broken away and illustrated in cross section;

Figure 4 is an enlarged detailed section on the line 4—4 of Figure 6, with parts of the article to which the device is attached shown in elevation;

Figure 5 is a bottom plan view of the retaining members showing the relative position of the head of the attaching member;

Figure 6 is a side elevation illustrating the pad in applied position;

Figure 7 is a top plan view of one of the retaining cups illustrating a slightly modified form of the invention; and

Figure 8 is a side elevation of the lower end of the chair or table leg illustrating another form of the invention.

As a general rule furniture pads such as illustrated in the accompanying drawings, are detachably connected to the article to which they are to be applied and in a great many instances become loosened and detached from the article. In the present instance, my device comprises a pad which after being attached to the article of furniture is permanently secured in position so that it will be necessary to destroy the pad before the same can be removed.

Referring more particularly to the drawings, 1 indicates the lower portion of what might be a table or chair leg. The pad includes a body 2 which may be of rubber, felt, or any other suitable material which will not mark or scratch the furniture or the floor on which the same is resting, and the outer surface thereof is arcuate, as shown at 3 with a substantially flat face 4 adapted to be fitted against the article to which the device is to be applied.

In the present construction of the pad, the retaining cup 5 is preferably molded into the body of the pad, as shown in Figure 4. This cup includes a body having an outstanding annular irregular flange 6 which is embedded in the material, as shown in Figure 4, to securely retain the cup in position. Beneath the bottom of the cup is a bearing plate 7 preferably curved as shown in Figure 4, so that the head 8 of the fastening element 9 will be disposed between the bottom of the cup and the bearing plate 7 and not engage the material of which the pad is formed.

The pads 2 and the cup members 5, as well as the plates 7 are arranged in position during the molding of the pad, so that the pad can be placed upon the market with the cup

and bearing plate 7 in position. However, various types of fastening elements may be used, but said elements must be provided with a head, a portion of which is rounded as indicated at 10 in Figure 5, while one side thereof is provided with straight cross portion 11 which lies parallel with the exterior surface of the fastening element.

The cup-shaped body 5 is provided with a tangent slot 12 and the metal at one side of this slot is bent downwardly slightly, as shown at 13, so that one corner of the head 10 can be engaged beneath the bottom of the cup and by turning the head, the head will be engaged beneath the bottom of the cup as shown in Figure 3 and the shank of the fastening element indicated at 14 will be received within a central opening 15 in the bottom of the cup. After the head has been placed in position, the metal 13 has a tendency to spring upwardly so that it will be impossible to return the head back through the slot 12; and the pad can be secured to the bottom of a chair or table leg, or any other suitable article by means of the fastening element, which may be a nail, screw, or the like.

It will be apparent that by embedding the cup 5 within the pads 2, the pads can be sold separately, but it is preferable to connect the fastening elements therewith before the same is placed on the market. However, the fastening elements and the pads may be sold separately, if desired.

In Figure 7, I have illustrated another form of the invention wherein a transverse slot 16 is formed in the bottom of the cup or retaining plate and the head of the fastening element may be readily engaged within this slot and turned around until all of the head is passed out the other side of the plate. The shank 9 will then fit into the central opening, as illustrated.

In Figure 8, I have illustrated another form of the invention wherein the cup member is provided with a laterally disposed flange provided with a plurality of yieldable tongues 17 and positioned upon the interior of this flange and engaged by the tongues 17 is a pad 18 which may be of felt or other similar material. The inner face of the pad 18 may have embedded therein a cup-shaped member such as indicated in the preferred form of the invention, and a fastening element may be engaged with a chair or table leg or similar piece of furniture.

It will be apparent from the foregoing that one of the principal objects of this invention is to provide a yieldable furniture pad wherein a fastening element may be attached thereto and then permanently connected to the bottom of the chair or table leg, or similar location, where a pad of this character would be required. The pad itself is extremely simple in construction and can be manufactured at a comparatively low cost.

While I have shown and described the preferred embodiment of my invention, it will be apparent from the foregoing that slight changes may be made in the construction when putting the invention into practice without departing from the spirit of the same or the scope of the appended claims.

I claim:

1. A furniture pad including a yieldable body and a retaining plate engaged therewith having a central opening, and a slot tangent to the opening and communicating therewith.

2. A furniture pad including a yieldable cup-shaped body having an angularly disposed flange, a yieldable body embracing the major portion of the cup and the flange, and said cup-shaped body having a central opening and a slot tangent to the opening and communicating therewith.

3. A furniture pad including a yieldable body, a retaining plate engaged therewith, having a central opening, and a slot tangent to the opening and communicating therewith, and a fastening element having a head formed with a straight face to provide portions to engage said slot whereby the head can be moved beneath the plate.

4. A furniture pad including a yieldable body, a retaining plate engaged therewith, having a central opening, and a slot communicating therewith, and a fastening element having a head formed with a straight face to provide portions to engage said slot whereby the head can be moved beneath the plate.

5. A furniture pad including a yieldable body, a retaining plate having its major portion embedded in the body, said retaining plate having a central opening and a slot communicating with the opening, and a fastening element having a head formed with a straight face to provide portions to engage said slot whereby the head can be removed beneath the plate.

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

STANISLAW KIELAR.