

April 11, 1933.

C. R. UHL

1,903,609

GLIDER FOR FURNITURE LEGS

Filed Nov. 13, 1931

Fig. 1.

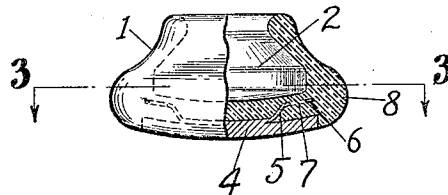


Fig. 2.

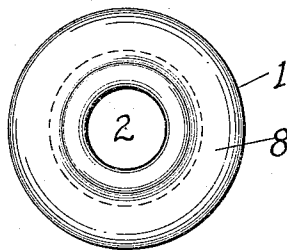


Fig. 3.

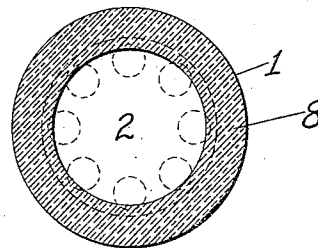


Fig. 4.

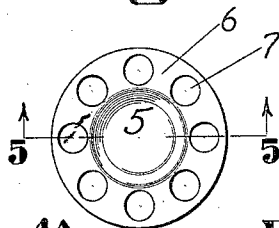


Fig. 5.

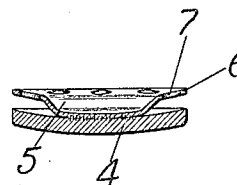


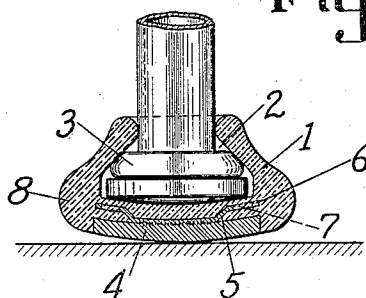
Fig. 4^a



Fig. 4^b



Fig. 6.



Inventor

Clement R. Uhl.

By Owen & Owen.

Attorneys.

UNITED STATES PATENT OFFICE

CLEMENT R. UHL, OF TOLEDO, OHIO, ASSIGNOR TO THE TOLEDO METAL FURNITURE COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO

GLIDER FOR FURNITURE LEGS

Application filed November 13, 1931. Serial No. 574,703.

This invention relates to gliders for furniture legs, and particularly to those of the cushion type adapted more particularly for use on the legs of metal furniture.

5 The object of the invention is the provision of a new and improved glider of this character which may be easily and quickly applied to and removed from the legs of furniture for which adapted, is simple, inexpensive and
10 durable in its construction, and has its leg-receiving socket sufficiently pliant and elastic to permit engagement with legs having feet portions of different shapes and sizes. The device in addition to serving as a cushioned
15 glider for a furniture leg, is also adapted to act sideways as a cushion buffer to prevent injury to parts against which it may be moved.

The invention is fully described in the following specification, and while in its broader
20 aspect it is capable of embodiment in different forms, one embodiment thereof is illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation of a device
25 embodying the invention with a part in central section. Fig. 2 is a top plan view thereof. Fig. 3 is a cross-section on the line 3—3 in Fig. 1. Fig. 4 is a top plan view of the glider plate member of the device, together with the
30 means by which it is anchored in the yielding material of the top member. Figs. 4A and 4B are fragmentary views similar to that of Fig. 4, showing different forms of anchorage openings in the anchoring member. Fig. 5 is
35 a section on the line 5—5 in Fig. 4, and Fig. 6 is an elevation of the lower end portion of one form of metal furniture leg, with a device embodying the invention positioned thereon and in central vertical section.

40 Referring to the drawing, 1 designates the cup member of a device embodying the invention, such member having a leg-receiving cavity 2 in its top and being formed of rubber, or other cushion material, which is preferably
45 of an elastic nature.

Furniture legs of the metal type are usually provided with flanged feet portions 3, and the cup cavity 2 is of a shape and size to receive such feet and has its mouth normally
50 contracted relative to its bottom to cause the

mouth wall to hug the leg above the flange of an engaged foot.

In order to provide the cup member with a hard smooth glider surface, a wear and glider plate 4, preferably of hardened steel, is attached to the bottom of said member with its side edge preferably terminating short of the side edge of the member, so that the latter provides a projecting side buffer surface for the plate.

The plate 4 is preferably of disc form and slightly bowed to present a convex surface to the floor, and is securely held in engagement with the cup member bottom by molding the material of the cup around and through portions of an anchoring disc 5 attached to the inner side of the plate 4 by electric spot welding, or in any other suitable manner. The disc 5, which is substantially the same size as the plate 4, is dished to adapt its central portion to seat on and be secured to the plate 4 centrally thereof and to cause its marginal edge portion or rim 6 to be spaced from the plate, with its major portion substantially parallel therewith, thus permitting the material of the cup to enter and fill the space between the plate 4 and rim 6. In order to form a more secure anchorage than would be accomplished by this alone, the rim 6 is provided therethrough with an annular series
80 of openings which are shown in Fig. 4 as in the form of apertures 7 and in Figs. 4A and 4B as in the form of notches 7^a and 7^b, respectively. The cup material has interengaging connection with the disc through these
85 openings. It will be noted that the material of the cup is molded and vulcanized around the plate 4 and its anchor piece 5 to securely and intimately unite and connect the two, and in such operation the plate 4 is preferably
90 set into the cup material so that only its lower surface is exposed.

The side edge of the cup member preferably projects a sufficient distance beyond the plate edge to form a fairly heavy side buffer portion 8, and the neck portion of the cup is sufficiently thinned to permit stretching when being applied to or removed from a leg.

It is apparent that I have provided a glider device for metal furniture legs, which is pro-
95 100

vided with a cup member of yielding material, such for instance as rubber, to enable it to be mounted on or removed from the lower end of a furniture leg, and particularly those
5 of metal having feet portions, and that the bottom surface of the yielding cup member is provided with a glider plate which is securely anchored in the material of the cup member and is suitable to withstand considerable wear and permit a free sliding movement
10 of the device over a surface on which it rests.

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

15 1. A device of the class described, comprising a cup member of soft vulcanized rubber having the side wall of its cavity portion thinned and inwardly directed to form a restricted mouth, a glider plate anchored in
20 the base portion of the cup member with its bottom surface exposed and forming a portion of the bottom surface of the cup member, said cup member having a portion surrounding the edge of the plate which is
25 heavier than the side wall portion of the cavity to provide the cup member with a side buffer portion between the plate and the relatively thin side wall portion of the cup cavity.

30 2. In a device of the class described, comprising a member of yielding material adapted to be attached to the lower end of a furniture leg, a slightly convexed glider plate secured to and forming the central portion
35 of the bottom surface of said member, and an anchorage member of dished-form secured at its central portion to the central top surface portion of said plate and having its rim portion laterally spaced from the rim
40 portion of the plate and adapted to have interengaging connection with the material of said member to securely anchor it therein.

45 3. A device of the class described, comprising a cup member of yielding material for receiving and engaging the lower end of a furniture leg, the bottom portion of said member being relatively heavy and having a side edge portion extending beyond the side
50 wall of its leg-receiving portion to form a yielding buffer shoulder, a glider plate of slightly outwardly convexed form secured in said bottom portion with its outer edge in inwardly spaced relation to said buffer shoulder, and an anchorage member of dished-
55 form secured at its central portion to the central top surface portion of said plate and having its rim portion laterally spaced from the rim portion of the plate and adapted to have interengaging connection with the material of said member to securely anchor it
60 therein.

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

CLEMENT R. UHL.