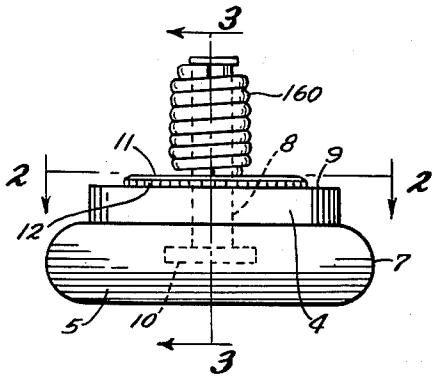
March 20, 1962 F. N. REYNOLDS 3,025,631

FURNITURE GLIDE MOUNT

Filed March 24, 1961

Fig. 1



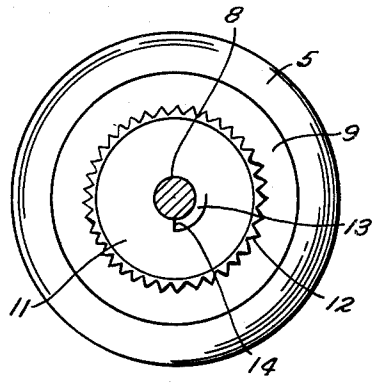


Fig. 2

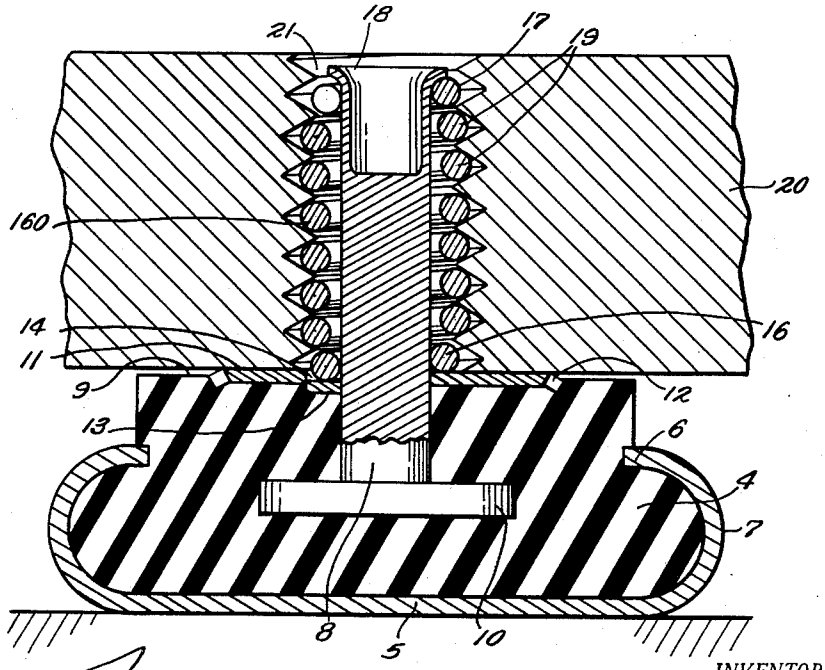


Fig. 3

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FURNITURE GLIDE MOUNT

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The present invention relates to improvements in furniture glide mounts and is particularly directed to a unitary fastener means which cooperates with a threaded bore in a furniture support element for securing a cushion-type floor glide to that element.

An object of the invention is to provide a glide mount of simplified and inexpensive construction which may be attached to a furniture element having a tapped bore therein by the simple expedient of manually threading the glide mount into the bore.

Another object of the invention is to provide a reliable glide mount having the foregoing advantages which upon securement to a furniture support element has great holding power, will be non-rattling and cannot be shaken loose during use of the furniture.

It is a specific objective of this invention to utilize the characteristics of a coiled spring in combination with certain elements of a cushioned glide and a tapped bore in the support element of furniture, or the like, to obtain the special advantages set out heretofore.

With the above and other objects in view an embodiment of my invention is shown in the accompanying drawing, said embodiment being more fully described hereinafter and pointed out in the appended claims.

In the drawing:

FIG. 1 is a side elevational view of an exemplary cushion furniture glide with my unitary fastening device fixed in position thereon.

FIG. 2 is a section taken on line 2—2 of FIG. 1.

FIG. 3 is a greatly enlarged section taken on line 3—3 of FIG. 1.

Referring to the drawing the glide comprises a disk-shaped cushion 4 made of resilient material which has a cupped-shaped, floor-engaging glide shoe 5 fitted tightly around its lower portion. The shoe is secured to the cushion by an inturned edge 6 formed on an upstanding, rounded flange 7 of the shoe and embedded in the body of the cushion. A pintle 8 is mounted on and projects from the cushion at right angles to the planar upper surface 9 of said cushion, said pintle being affixed to the cushion by embedding an enlarged head 10 on the lower end of the pintle centrally within the body of the cushion.

A load supporting washer 11 of smaller diameter than the planar upper surface 9 of the cushion is engaged on the pintle and is non-rotatably positioned upon the surface 9 of the cushion. The means for securing the non-rotatable connection between the washer and cushion is best illustrated in FIG. 3 and comprises turning the peripheral portion of the washer downwardly and providing a row of teeth 12 in said periphery which are thereby directed downwardly to bite into the surface 9 and seat in the body of the cushion. As best shown in FIG. 2 a detent 13 is stamped in the body of the washer 11 around the pintle engaging hole therein to provide a shoulder 14 in the upper surface of the washer that is adjacent the pintle and radiates outwardly therefrom.

A coil spring 160 surrounds the pintle 8 and with reference to FIG. 2 it will be noted that the lower end coil 16 of said spring snugly engages said pintle and has a terminal end in abutment with the shoulder 14 on the washer. Abutment of the terminal end of the spring against the shoulder 14 provides a non-rotatable connection means between the spring and the washer in one clockwise direction in order that the spring 16 may be

threaded into a tapped bore 21 in a furniture support element 20, as will be described hereinafter. The upper end coil 17 of the spring snugly encircles the upper end of the pintle 8 and is engaged against an outwardly flaring shoulder 18 formed on the upper end of said pintle. The intermediate coils 19 of the spring 15 have a larger diameter than the end coils and are consequently spaced radially away from the pintle 8. It will also be seen with reference to FIG. 1 that in relaxed, inoperative condition of my glide mount the spring 16 is in closed condition on the pintle 8 with the adjacent coils thereof in engagement with each other, it being also noted that the shoulder 18 is formed on the end of the pintle to bear tightly against the spring 16 and thereby hold said spring against the toothed washer 11 whereby the washer will be drawn up against the supper surface 9 of the cushion in a tight unitary assembly.

To fasten my unitary cushion glide mount on the support element 20 of a piece of furniture there is provided the tapped bore 21 in said support which has a thread pitch .01 of an inch larger per coil than the pitch of the coils of the spring. As the spring is screwed into the threaded hole 21, the intermediate coils 19 open apart to follow the pitch of the threads therein which forcibly elongates the spring causing the row of teeth 12 and the entire washer body to be pressed deeper into the body of the cushion 5 to thereby form a connection that is put continuously under a strong biasing force to prevent rattling or loosening of the mounted glide on the furniture support element. As has been pointed out the terminal end of the lower coil 16 of the spring is in abutment with the shoulder 14 formed on the washer, said abutment forming a positive non-rotating connection between the washer and the spring in one clockwise direction so that the glide shoe may be grasped and turned manually to thread the spring into the tapped bore. This abutment permits rotation of the spring and washer in the opposite clockwise direction and thereby forms a tamper-proof glide which cannot be removed without tools from the furniture support once it has been threaded into the tapped bore in the support.

Having described my invention, what I claim is:

1. In a mount for connecting a glide to a support element for furniture that has a tapped bore formed therein the combination of a glide cushion, a shoe secured to the cushion, a pintle mounted on the cushion and adapted to project therefrom into the center of the tapped bore, a washer engaged on the pintle and in contact with the cushion, means for securing a non-rotatable connection between the washer and the cushion, a normally closed, coil spring encircling the pintle and having an end coil snugly engaging the pintle, a non-rotatable connection between the said end coil and the washer, said spring having an opposed end coil snugly engaging the pintle, a fixed shoulder on the end of the pintle bearing against the said end coil, the intermediate coils of the spring being spaced away from the pintle and having a pitch slightly less than the pitch of the screw threads in the tapped bore, whereby upon screw threaded entrance of the spring into the bore the intermediate coils of the spring are forcibly spread apart to elongate the spring and form a tight connection between the glide mount and the supporting element.

2. In a mount for connecting a glide to a support element for furniture that has a tapped bore formed therein, the combination of a glide cushion having a planar upper surface, a shoe secure to the lower portion of the cushion, a pintle mounted on the cushion and adapted to project therefrom into the center of the tapped bore, a washer engaged on the pintle and in contact with the cushion, said washer having a row of peripheral teeth embedded in the planar top wall of the cushion, a normally closed

coil spring encircling the pintle and having a lower end coil snugly engaging the pintle, a shoulder formed on the washer in engagement with the terminal end of said lower coil of the spring, said spring having an upper end coil snugly engaging the pintle, a shoulder on the upper end of the pintle bearing against the upper end coil of the spring, the intermediate coils of the spring being radially spaced from the pintle and having a pitch slightly less than the pitch of the screw threads in the tapped bore, whereby upon screw threaded entrance of the spring into the bore the intermediate coils are forcefully spread apart and place the spring under elongated compression to form a tight connection between the glide mount and the support element.

3. In a mount for connecting a glide to a support element for furniture having a tapped bore formed therein the combination of a glide cushion of resilient material and having a planar upper surface, a shoe secured to the lower portion of the cushion, a pintle mounted on the central portion of the cushion and adapted to project from the cushion at right angles to the upper surface and into the center of the tapped bore, a load supporting washer engaged on the pintle in engagement with the upper surface of the cushion and adapted to contact the support element, means securing a non-rotatable connection between the washer and the cushion, a normally closed, coil

spring encircling the pintle and having a lower end coil engaging the washer, means securing a non-rotatable connection between the lower end coil and the washer, said spring having an upper end coil, a fixed shoulder on the upper end of the pintle bearing against the upper end coil, and the intermeidate coils of the spring being spaced radially away from the pintle and having a pitch slightly less than the pitch of the screw threads in the tapped bore of the support element.

4. In the mount as set forth in claim 3 characterized by the fact that the means securing a non-rotatable connection between the washer and the cushion consists of a row of downturned, peripheral teeth formed in the washer and embedded in the upper surface of the cushion.

5. In a mount as set forth in claim 3 characterized by the fact that the means securing a non-rotatable connection between the lower end coil of the spring and the washer consists of a detent stamped in the washer to form a radial shoulder on the washer in abutment with the terminal end of said lower end coil.

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