Nov. 3, 1925.

1,559,699

W. F. HEROLD

FURNITURE SHOE

Filed Dec. 5, 1921

Fig. 1,

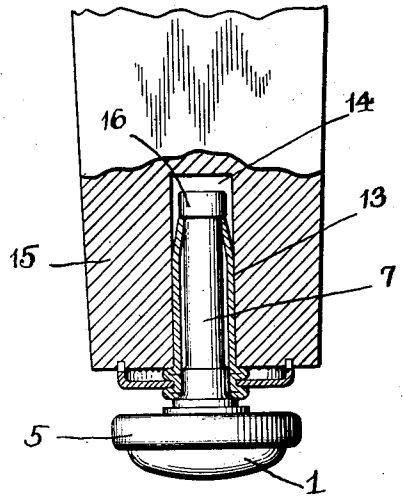


Fig. 2,

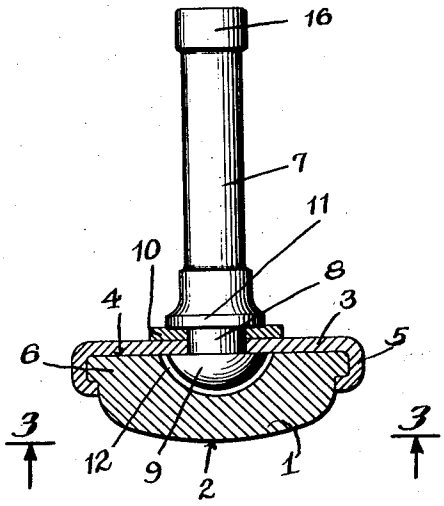


Fig. 3,

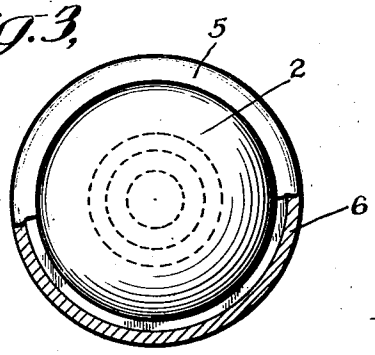


Fig. 4,

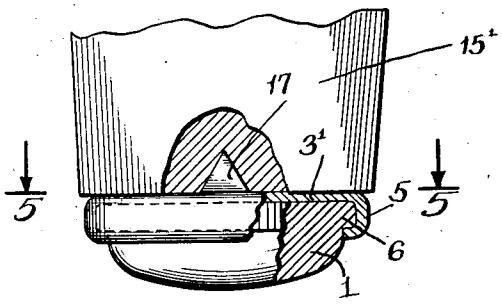
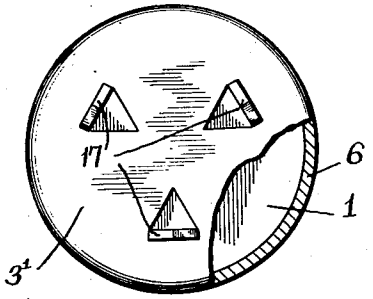


Fig. 5,



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Patented Nov. 3, 1925. 1,559,699

UNITED STATES PATENT OFFICE.

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FURNITURE SHOE.

Application filed December 5, 1921. Serial No. 520,199.

To all whom it may concern:

Be it known that I, WALTER F. HEROLD, a citizen of the United States, and resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Furniture Shoes, of which the following is a specification.

The invention relates to furniture shoes or slides which are adapted to be secured to the lower ends of furniture legs, or other objects. It is adapted to be applied to furniture shoes or slides which are provided with pintles which may be inserted into spring sockets or other holding means within the furniture legs. It may also be applied to like devices which are not provided with pintles but are secured directly to the under surface of the furniture as by means of upwardly extending prongs.

Furniture shoes have commonly been made by casting the sliding member and securing a vertical pin or pintle thereto by inserting the lower end of the same into the casting while the latter is molten. Such a method results in the production of a large proportion of imperfect devices for various reasons. For example, the insertion of the cold pin into the molten metal often results in formation of blow holes in the casting, and the strong chill resulting when the pin is inserted into the molten metal is apt to cause the latter to draw away from the pin when it hardens, resulting in an imperfect connection. Also it is oftentimes difficult to make the connection in such a way that the pin or pintle will be in proper alignment when the article is completed.

An object of the present invention is to overcome the difficulties referred to and to produce an article which will be strong and efficient and which may be manufactured with a considerable saving in cost in comparison with the prior device referred to above. In practicing this invention a disc is provided with a downwardly turned edge which is pressed around or otherwise secured to the edge portion of a bearing member having a rounded lower surface adapted to slide over the floor, this bearing member bearing firmly at its upper surface against the disc so as to result in a strong and rigid construction. A pintle of any desired size may readily be secured to the disc. Likewise when the device is to be used without a pintle, the disc may be provided with upwardly extending prongs or other means for securing it to the bottom of the furniture leg.

Other objects of the invention consist in the provision of improved details of construction and combinations of parts, all as will appear more fully hereinafter in the following specification and be particularly pointed out in the appended claim.

In order that the invention may be more clearly understood attention is hereby directed to the accompanying drawings forming part of this application and illustrating certain embodiments of the invention. In the drawings

Fig. 1 represents a furniture shoe embodying the invention, shown in side elevation, mounted in position within a socket within a furniture leg, the socket and leg being shown in section:

Fig. 2 is an enlarged view of the furniture shoe shown in vertical section with a pintle applied thereto shown in side elevation;

Fig. 3 is a bottom plan view of the device as indicated by the arrows 3, 3, in Fig. 2, the device being partly broken away and partly shown in section;

Fig. 4 is a view of a modified form of the device partly shown in side elevation and partly in vertical section, and

Fig. 5 is a top plan view of the device as indicated by the arrows 5, 5, in Fig. 4, the device being shown as partly broken away and partly shown in section.

Referring to Figs. 1 to 3 of the drawings, the bearing member 1 is preferably formed as a casting, although it may, of course, be manufactured by other processes. It is provided with a rounded lower surface 2 adapted to slide over the floor. Member 1 may be formed of any suitable material such as cast iron when the shoe is to be used within a factory, or brass or other material when it is to be used in a residence.

The disc 3 is adapted to bear against the upper surface 4 of member 1 and be secured thereto by means of the downwardly extending edge portion 5 of the disc which may be secured to the edge portion of member 1. Disc 3 is preferably formed of sheet metal

and member 1 is preferably provided with a peripheral shoulder 6 at its upper edge about which the lower edge of flange 5 of the disc is spun, or otherwise pressed to secure the parts together.

The pintle 7 is illustrated as secured to disc 3 by extending the lower end portion 8 of reduced diameter of the pintle through a central opening in the disc and upsetting the lower end of the pintle to form a head or enlargement 9 which will bear against the lower surface of the disc to rivet the pintle to the disc, a washer 10 preferably being interposed between the disc and a shoulder 11 on the pintle. With this construction the bearing member 1 is provided with a central recess 12 extending downwardly from its upper surface which will receive the head 9 of the pintle after the latter has been secured in position.

To use the device the pintle 7 is merely inserted within the spring socket 13 which is secured in place within a central opening 14 in a furniture leg 15, the enlargement 16 at the upper end of the pintle bearing against the upper end of the spring socket when the device has been positioned. The above explanation is given, of course, merely by way of example since it is obvious that the device may be used in connection with spring frames or otherwise in accordance with the usual practice with casters.

In Figures 4 and 5 the disc 3^1 is not provided with a central opening therethrough and has no pintle secured thereto. As shown in the drawings the disc 3^1 may be provided with upwardly extending prongs 17 which may be struck from the metal and extended upwardly into the bottom of a furniture leg 15^1 to secure the device in place. The disc may be secured to the bearing member 1 in the same manner as has been described in connection with the other form of the device illustrated herein, the disc preferably being provided with a downturned flange 5 which may be pressed around the peripheral shoulder 6 of member 1.

It will be noted that when the device is assembled there is a surface contact between the upper surface of member 1 and the under surface of disc 3 whereby the disc will be reinforced and stiffened. It will also be noted that the edge of the disc is secured to the bearing member at a level considerably above that at which the shoe slidingly engages the floor so that there will be no likelihood of the edge of the disc catching on rugs or the like, or rubbing against the floor. It will be noted that the device may be manufactured in an exceedingly simple and expeditious manner and with a minimum of wasted material and will produce a durable and effective article. It will also be noted that various sizes or styles of pintle may be used with the device as desired.

It should be understood that the invention is not limited strictly to the details of construction described but is as broad as is indicated by the accompanying claim.

What I claim is:—

In a furniture shoe of the factory shoe type, the combination of a cast bearing member having a rounded lower surface, the lowest point of which is at the center thereof, adapted to slide on the floor and having a central recess extending downwardly from its upper surface, a disc having a central opening therein, a surface adapted to be against the upper surface of said member and a downturned edge secured to the edge portion of said member, and a pintle having its lower end extend through the opening in said disc into said recess, and having an enlargement in said recess and a shoulder above the disc, said parts serving to rivet the pintle fixedly to the disc.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 30th day of November A. D. 1921.

WALTER F. HEROLD.