April 27, 1926. 1,582,211

L. FLEMING

CASTER

Filed June 19, 1924

Fig. 1.

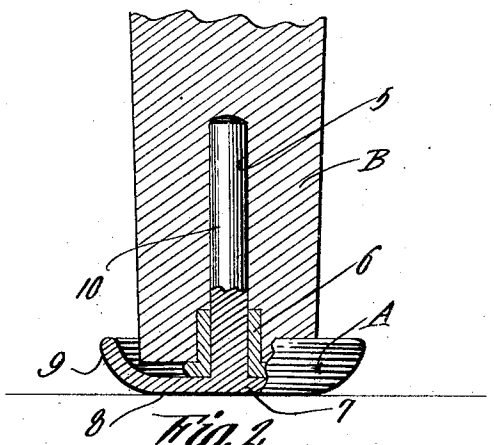


Fig. 2.

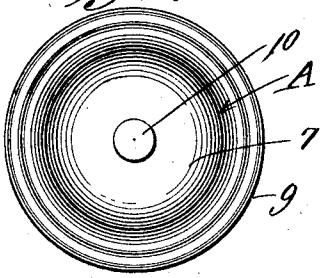
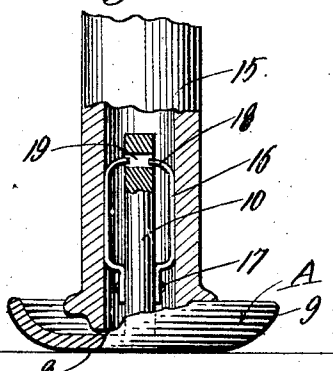


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

LOTTIE FLEMING, OF CLARION, PENNSYLVANIA.

CASTER.

Application filed June 19, 1924. Serial No. 721,088.

To all whom it may concern:

Be it known that I, LOTTIE FLEMING, a citizen of the United States, residing at Clarion, in the county of Clarion and State of Pennsylvania, have invented certain new and useful Improvements in Casters, of which the following is a specification.

This invention relates to furniture and more particularly to casters for furniture legs.

The primary object of the invention is to provide an improved caster which will readily slide over a floor without scratching or marring the same and which is provided with an enlarged flat barring service, whereby the cutting of the floor or floor covering will be eliminated irrespective of the weight of the article of furniture or the length of time the caster rests in the same spot.

Another object of the invention is to provide a caster in which the necessity of providing a rotatable and swiveled roller is entirely eliminated thereby resulting in the simplification of furniture casters.

A still further object of the invention is to provide a caster of the above character which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market and incorporated with an article of furniture at a small cost.

With these and other objects in view the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings, in which drawings,

Figure 1 is a vertical sectional view illustrating the type of caster used with furniture having wooden legs,

Figure 2 is a top plan view of the improved caster,

Figure 3 is a sectional view similar to Figure 1, showing the type of caster used with iron beds and the like.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views the letter A generally indicates the improved caster and B a wooden furniture leg with which the same is associated.

The leg B is provided with the usual axially disposed inwardly extending opening or socket 5 in which is fitted a metal ferrule 6.

The improved caster A embodies an enlarged concavo-convex shaped disk 7 preferably formed of polished metal to present an attractive appearance. By referring to Figure 1, it can be seen that the disk 7 is of a substantially saucer shape and is provided with the enlarged flat lower bearing face 8 and the outer upturned flange 9. The flat bearing face 8 provides an enlarged surface for engaging the floor or floor covering and effectively prevent the cutting thereof irrespective of the weight of the article of furniture with which the caster is associated. The up-turned flange 9 provides means for permitting the easy sliding of the caster over the surface upon which the article of furniture is placed. The inner face on the disk 7 at the axial center thereof is provided with a relatively long cylindrical shank 10 fitted within the axial opening or socket 5 in the leg B.

In Figure 3, of the drawing I have shown a caster which is particularly adapted to be associated with iron beds or the like which embodies hollow legs 15.

The caster is provided with a disk 7 of exactly the same configuration as the disk illustrated in Figures 1 and 2, the only difference between the casters being that the shank 10 is provided with leaf springs 16 on opposite sides thereof for frictionally engaging the inner surface of the hollow leg 15. As shown the springs 16 have their lower ends riveted or otherwise secured to the shank 10 as at 17 while their opposite ends are left free and provided with inwardly extending guide extensions 18 which are adapted to slide in a diametrically extending opening 19 in the shank 10 adjacent to the upper end thereof.

It is to be noted that in each form of the invention that the disk 7 extends beyond the outer surface of the leg with which it is associated and thus it is evident that the disk will cover a relatively large area of surface.

While, as stated the primary object of the invention is to provide a caster which will readily slide over the surface without injury thereto, it can be seen that owing to the shape of the caster that the same can be filled with water or a liquid insecticide whereby effectively preventing insects from crawling up the legs of the furniture from the floor. Thus it can be seen that this type of caster can be used effectively upon places where ants are troublesome.

Changes as in detail may be made without

departing from the spirit or the scope of this invention but,

What I claim as new is:—

A caster comprising a shank adapted to be received loosely within the bore of the leg of an article of furniture and having a transverse opening adjacent its upper end, a caster element carried by the lower end of the shank, and a plurality of substantially U-shaped springs each having one end fixed to the shank and their opposite ends projecting into the opening, such springs being adapted to contact with the walls of the leg bores substantially their entire lengths.

In testimony whereof I affix my signature.

LOTTIE FLEMING.