May 13, 1924. 1,494,028

G. A. SCHULTE

DOME CASTER

Filed Feb. 24, 1922

Fig. 1.

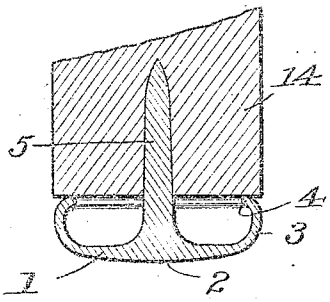


Fig. 2.

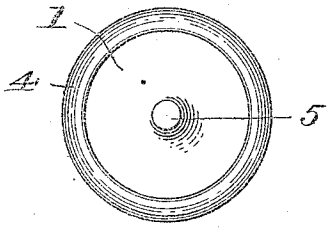


Fig. 3.

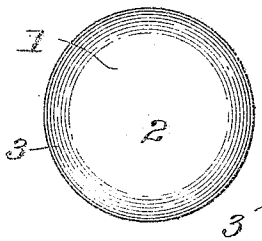


Fig. 4.

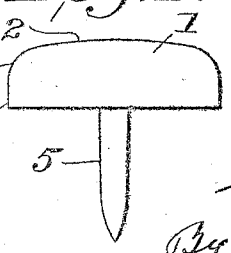


Fig. 5.

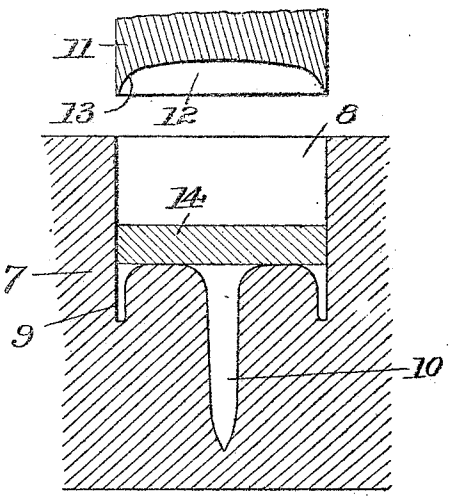
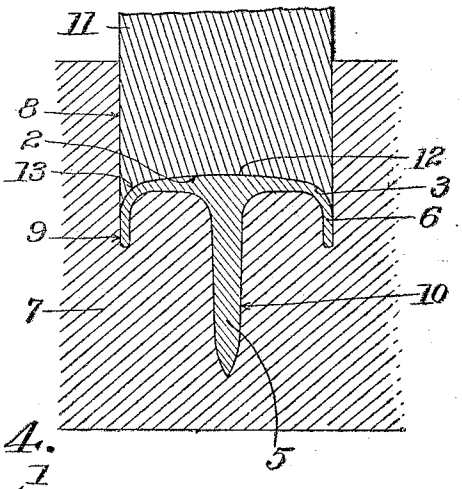


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE A. SCHULTE, OF NEWARK, NEW JERSEY.

DOME CASTER.

Application filed February 24, 1922. Serial No. 539,013.

To all whom it may concern:

Be it known that I, GEORGE A. SCHULTE, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Dome Casters, of which the following is a full, clear, and exact specification.

This invention relates to dome casters and the method of making the same.

One object of the invention is to produce a dome caster which may be more securely fastened to a furniture leg without danger of splitting the wood thereof or otherwise marring its appearance. Another object is to make said dome casters in a quick and economical manner. Other objects will appear as the description proceeds.

The invention will be first hereinafter described in connection with the accompanying drawings, which constitute part of this specification, and then more specifically defined in the claim at the end of the description.

In the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views:—

Figure 1 is a central vertical section of a dome caster made substantially in accordance with this invention, the same being shown attached to a wooden furniture leg.

Figure 2 is a top plan view of the caster.

Figure 3 is a bottom plan view thereof.

Figure 4 is an inverted elevation of the caster.

Figure 5 is a sectional view of a die and plunger for making the caster, a blank being shown in said die, and

Figure 6 is a sectional view of said die and plunger after the descent of the plunger and the compression of the blank to conform to the die.

The dome caster 1 has a convex base 2 and a curved annular edge 3 having an inwardly curled or spun margin 4 providing a rounded annular surface to engage the end of the wooden furniture leg 14, Figure 1. An integral pointed lug or spur 5 rises from the center of the base 2 and is adapted to be driven into the center of the furniture leg without danger of splitting the same, as shown in Figure 1. The rounded edge of the caster at the inwardly spun margin 4 also prevents the cutting, splitting or marring of the furniture leg.

As illustrated in Figures 5 and 6, the caster 1 is preferably made by pressing a blank 14 of suitable metal in a die 7 with a plunger 11. Said die has a round socket 8 at the bottom of which a central cavity 10 conforming to the shape of the spur 5 is formed, while around the edge of the bottom of said socket there is a groove 9 conforming to the rounded edge 3 of the caster before it is curled or spun inwardly, see Figure 4. The plunger 11 is concave at its lower end, as at 12, the marginal portion of said concavity being curved at 13 to conform to the outer contour of the rounded edge 3 of the caster.

The blank 14 is of suitable thickness to contain the required quantity of metal to fill the groove 9 and cavity 10 as well as form the base of the caster, as shown in Figure 6. Said blank may be heated before being placed in the die, or cold pressed as desired. After being pressed into form in the die, the caster, which is then in the shape illustrated in Figure 4, has its flange 6 curled or turned inwardly, as at 4, Figures 1 and 2, by spinning or other suitable means.

I claim:

A dome caster having a dished portion to engage the floor, an integral sharply pointed spur extending upward from the center of said dished portion to engage a furniture leg, and an inwardly curled flange around the margin of said dished member to provide a round bearing against said leg.

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

GEORGE A. SCHULTE.