

W. S. DEMING
Furniture Casters.

No. 152,900.

Patented July 14, 1874.

Fig. 1.

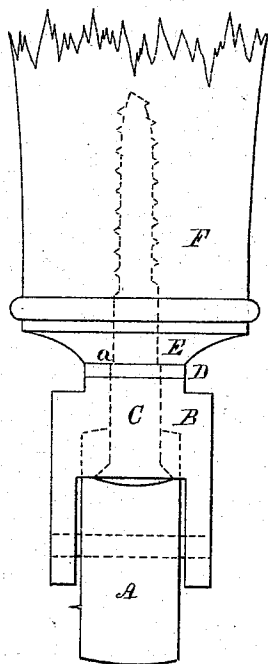
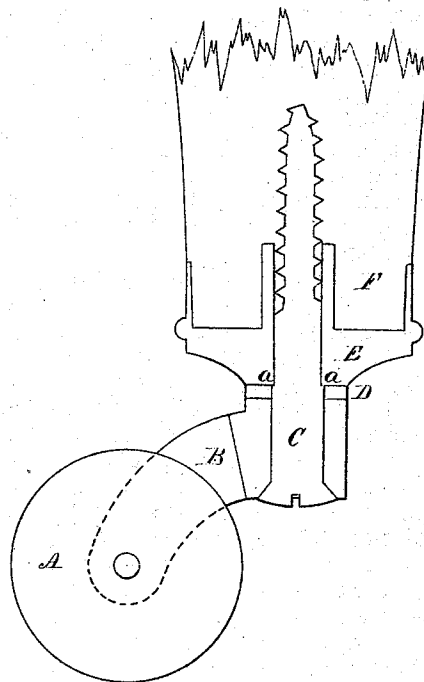


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM S. DEMING, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN FURNITURE-CASTERS.

Specification forming part of Letters Patent No. **152,900**, dated July 14, 1874; application filed January 17, 1874.

To all whom it may concern:

Be it known that I, WILLIAM S. DEMING, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Casters; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My invention consists in a shoulder formed upon the shank of the central screw, which rests upon the plate or socket in such a manner that when the screw is turned firmly home the plate or socket is embraced between this shoulder and the bottom of the leg in such a way that the parts are all held securely in position. At the same time the head of the screw does not bind upon the rotating part of the caster so as to prevent its turning freely. It also consists in the general combination and arrangement of the several parts of the caster.

In the accompanying drawing, Figure 1 is a rear view of my improved caster. Fig. 2 is a vertical section through the middle of the same.

A is the roller. B is the rotating part of the caster, commonly called the shank. C is a screw passing upward through the shank, and upon which it rotates. D is a washer. E is the part commonly called the plate or socket. F is the leg of the article of furniture to which the caster is attached. The roller and shank are of an ordinary form and construction. The screw passes through the aperture in the shank with a sufficiently loose fit to allow it to turn freely. This screw is provided with

a shoulder at *a*, as shown in the drawing, at such a distance from the under side of the head that when it rests against the part E, which is as far as the screw can be turned in, there is sufficient space left to prevent any binding or clamping of the shank, so as to impede its free rotation. The part E may be either a socket with a ferrule embracing the leg, as shown in Fig. 2, or it may be a simple plate without the central socket and rim, as shown in Fig. 1, its essential characteristics being that it rests against the bottom of the leg, so as to form a support and bearing for the rotating part of the caster, and is provided with a central aperture to fit the screw. The washer D is interposed between the parts B and E to diminish friction, and is intended to be of a different metal. If the parts B and E are of brass, the washer would be of iron or steel. It may turn freely, or it may be soldered or otherwise attached to the part E to prevent its being lost or displaced before the parts of the caster are attached to the leg F.

In attaching my improved caster to the leg, the screw is turned in the usual manner until the shoulder *a* presses upon the plate E and binds it firmly to the leg. This also clamps and holds the screw, so that it forms an unyielding support for the rotating part of the caster.

What I claim as my invention is—

The combination of the shank B, the shouldered screw C, and the plate E, when arranged substantially as described, to form a furniture-caster.

WILLIAM S. DEMING.

Witnesses:

THEO. G. ELLIS,

CHARLES L. BURDETT.