

A. B. DISS.
CASTER.

APPLICATION FILED JUNE 21, 1911.

1,051,706.

Patented Jan. 28, 1913.

Fig. 1

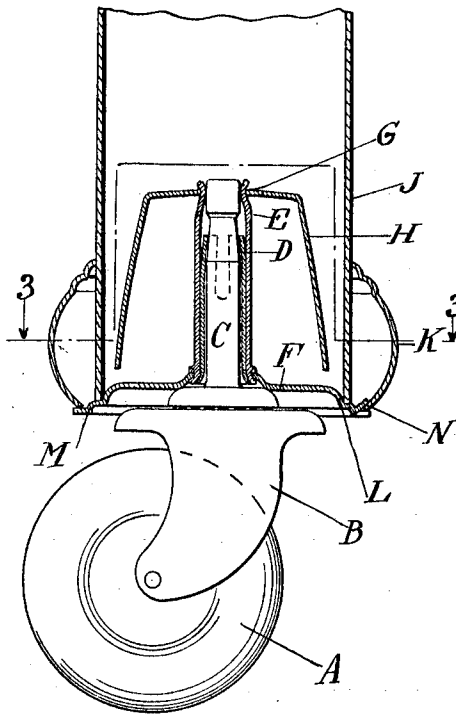


Fig. 2

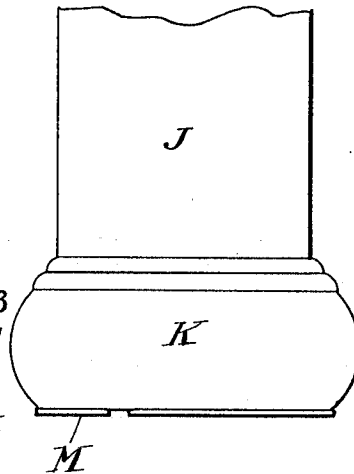
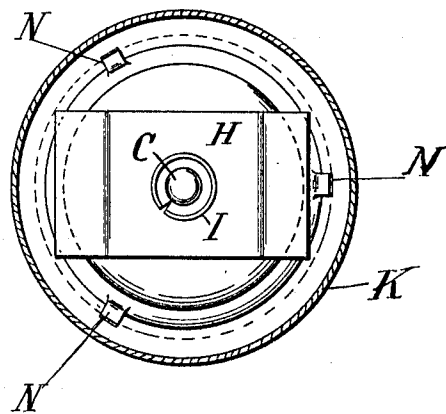


Fig. 3



Witnesses:
J. H. Konigsberg
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UNITED STATES PATENT OFFICE.

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CASTER.

1,051,706.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed June 21, 1911. Serial No. 634,479.

To all whom it may concern:

Be it known that I, ALBERT B. DISS, a citizen of the United States, residing in the city of Newark, county of Essex, State of New Jersey, have invented certain new and useful Improvements in Casters, of which the following is a specification, accompanied by drawings.

My invention consists in a novel form and construction of casters, simple in construction and operation, as hereinafter fully described, and yet comparatively low in cost of manufacture.

My invention relates to the class of casters having a caster wheel, jaws, a pintle adapted to be held in and centered in a relatively large tubular leg and comprises means for supporting and centering the pintle relatively to the leg, resilient means for holding the caster frictionally to the leg and preventing its dropping out should the leg be raised, and a leg mount for both centering the leg and presenting a pleasing appearance to the eye.

Certain other features will appear from the following description and the essential characteristics are pointed out in the claims.

The preferred embodiment of my invention is exemplified and illustrated in the accompanying drawings, wherein,

Figure 1 is a side view, partly in central section, showing one preferred embodiment of the invention, Fig. 2 is a perspective view of a tubular leg and a leg mount member used as shown in Fig. 1, Fig. 3 is a plan view partly in section.

In the drawings, A represents a caster wheel, B the jaws and C a pintle rigidly secured thereto. The pintle C is free to be inserted into and withdrawn from a socket, which socket comprises an inner spring member D for securing the pintle and an outer tube E. The tube E is rigid with the leg supporting plate F and is reduced at its upper end, forming thereby for the head of the pintle C an internal bearing, as shown at G. Secured to the reduced portion G of the tube E is a spring member H perforated as shown and through which the tube E extends and above which it is headed or spread as at I. This spring member H acts outward on the leg J tending thereby to secure and help center the tube E and consequently tube D and pintle C relatively to the tubular leg J and affording means for holding frictionally the caster to the leg.

These parts are further centered in respect to tubular leg J and to each other by reason of tube E being rigid with the leg supporting plate F, which leg supporting plate has an annular shoulder or step like corrugation L adapted to engage, hold and center the tubular leg end as shown.

The leg mount K, the bottom end of which rests upon the leg supporting plate F and is rigidly centered in respect thereto by means of the second annular shoulder or step-like corrugation M the horizontal element of which forms a flange as shown in Fig. 1, is further strengthened as to its union with the plate F by means of tongues or short flanges N cut from the lower flange and overlying the inturned edge of the bottom of the leg mount K; consequently, the edge of the leg mount is embraced between alternately overlying and underlying tongues or flanges, and thereby firmly held and centered in respect to the leg supporting plate.

Upon examination of the drawings attached it may be seen that the inturned edge of the leg mount K being embraced by tongues and flanges of the leg supporting plate F that alternately overlie and underlie the edge abutting against corrugation M assists in holding the upper end of the leg mount firmly against the exterior surface of the tubular leg J, and J in its turn is further held and centered by its end being constantly kept abutting against the corrugation L on leg supporting plate F.

The tube E is extended through the spring member H and upset over the same, thereby securely holding the spring member in its desired position.

This invention in connection with ball bearing or any other friction-lessening device, as shown, affixed in proper position has been found to be particularly applicable for use in heavy tubular legs of large diameter.

It is evident that changes may be made in details of the arrangements and combination of the parts herein shown and described, as for example pintle C instead of being retained in socket E by reason of the enlarged head of the pintle, might be retained therein by having its upper extremity enlarged or upset above the top of pintle socket E and hence the invention is not limited to the exact arrangements and constructions of the parts shown.

I claim the following:

1. In combination with a caster pintle, a leg supporting plate and a leg mount centered on the pintle, the plate being provided
5 with tongues or flanges that alternately overlie and underlie the inturned edge of the bottom of the leg mount and embrace it rigidly between them, whereby the pintle is centered in respect to the said leg mount.
10 2. In combination with a caster pintle, a leg supporting plate and a leg mount centered on the pintle, the plate being provided with tongues or flanges that alternately overlie and underlie the inturned
15 edge of the bottom of the leg mount and embrace it rigidly between them, said plate having a shoulder abutting against the lower edge of the leg mount to rigidly center the same in respect to it.

3. In combination with a caster pintle, a leg supporting plate and a leg mount centered on the pintle, the plate being provided with tongues or flanges which alternately overlie and underlie the inturned edge of the bottom of the leg mount and embrace it
25 rigidly between them, said plate having a shoulder abutting against the lower edge of the leg mount to rigidly center the same in respect to it, and a second shoulder adapted to engage the leg end.
30

In testimony whereof I have signed this specification in the presence of two subscribing witnesses, June 17, 1911.

ALBERT B. DISS.

Witnesses:

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E. P. LA GAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."