

No. 639,129.

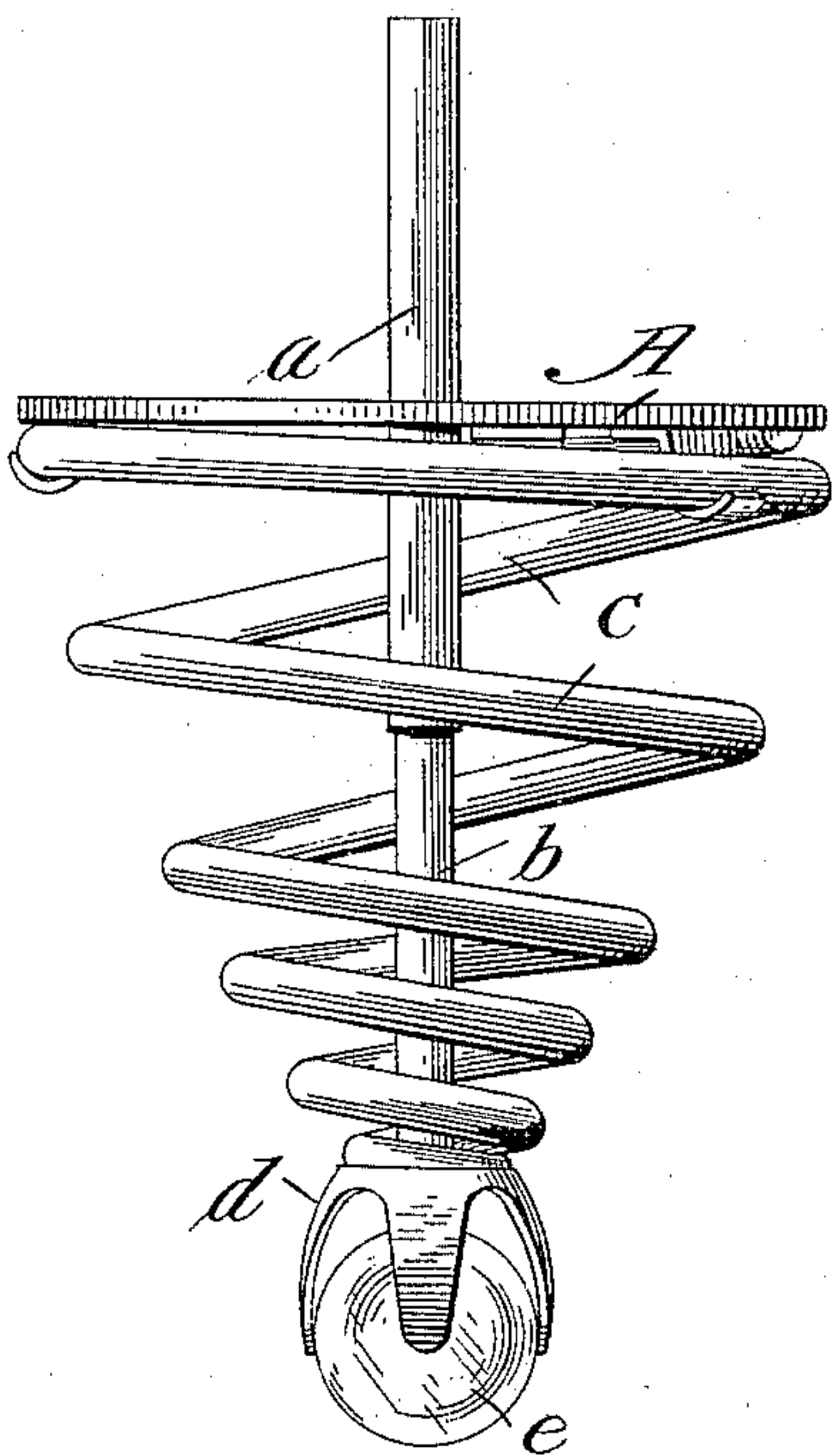
Patented Dec. 12, 1899.

C. C. ALDEN.  
CASTER.

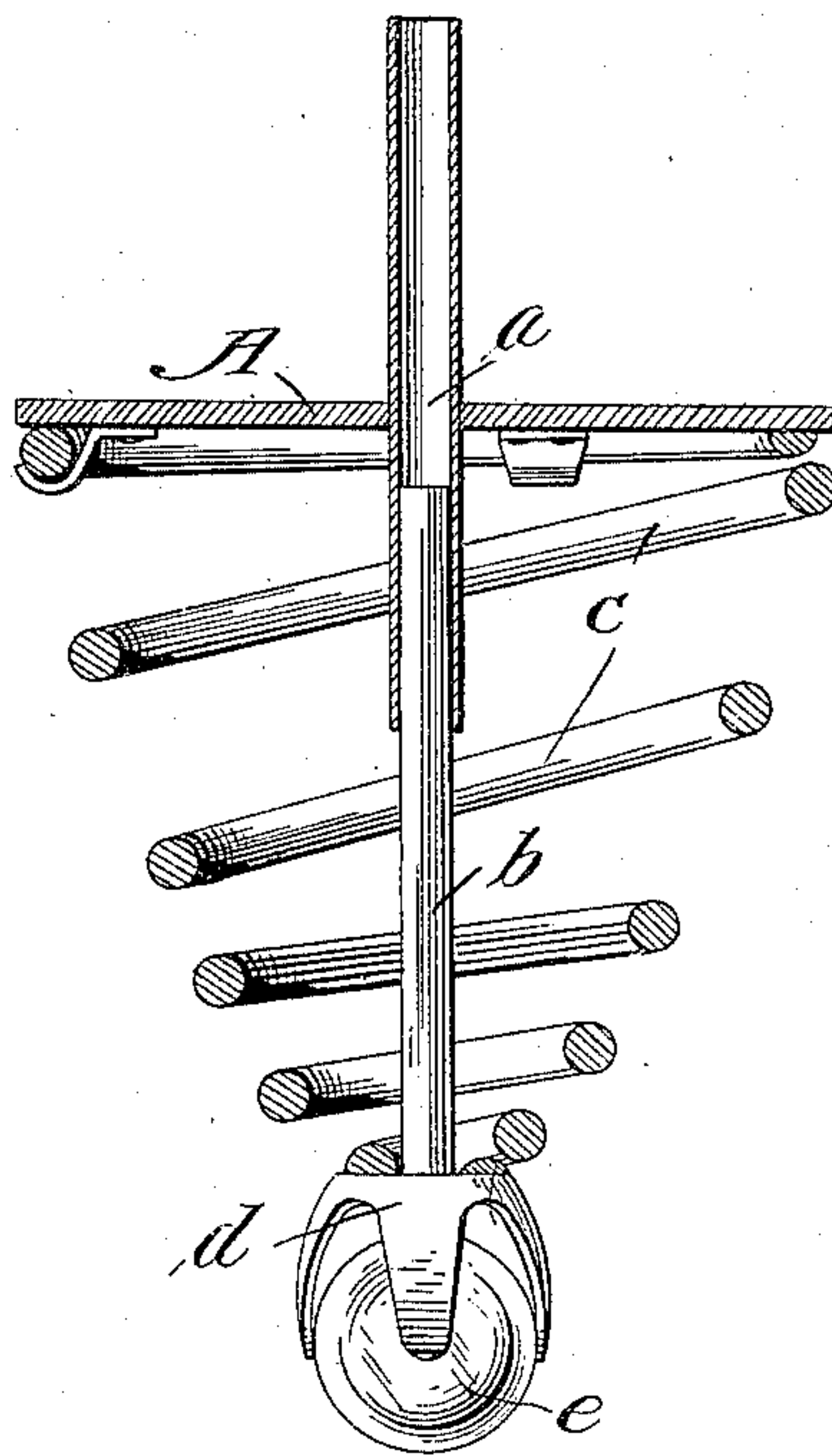
(Application filed Aug. 24, 1899.)

(No Model.)

*Fig. 1.*



*Fig. 2.*



Witnesses

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# UNITED STATES PATENT OFFICE.

CHARLES C. ALDEN, OF MEDFORD, MASSACHUSETTS.

## CASTER.

SPECIFICATION forming part of Letters Patent No. 639,129, dated December 12, 1899.

Application filed August 24, 1899. Serial No. 728,292. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES C. ALDEN, a citizen of the United States, residing at Medford, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Bed Springs and Casters, of which the following is a specification.

My invention is an improved caster of the class using a spring between the bearing-point and the part entering or supporting the leg of the article of furniture.

Heretofore it has been proposed to utilize a spring in connection with a caster, as in United States Patent No. 475,136; but in the construction shown the whole strain of the bedstead or other article comes upon the spring in any lateral movement and the spring would soon give out or break.

In my improved form I use a different form of spring and at the same time provide a guide for the stem of the caster, and thus prevent torsional strain on the spring.

To this end my invention includes a base-plate with a guide-tube secured thereto, a spring also secured to the base-plate, and a caster and stem, the stem fitting the guide-tube, while the caster bears upon the lower part of the spring.

In the drawings, Figure 1 is a side elevation of my improved form of caster. Fig. 2 is a section of the same.

A base-plate A, in the form of a disk of metal, serves to support the leg or other part of the article of furniture to which the caster is to be applied, this disk being provided with

a central tube which fits within an opening made in the leg of the article. The tube *a* extends on each side of the disk or plate A above and below the same and serves as a guide for the caster-stem *b*. This stem fits within the tube *a* loosely, while a spring *c* is interposed between the plate A and the caster, so as to give a yielding support thereto. The spring *c* is tapering, having a large coil at the top secured to the plate A by clips, and the coils taper to a small coil at the lower end, which bears against the fork *d* of the caster. The spring gives the desired elasticity, while the guide for the stem gives rigidity laterally and prevents strain upon the spring in this direction. The fork *d* may inclose a glass ball *e*, as shown, or an ordinary roller may be used, if desired.

What I claim is—

In combination, a flat base-plate, a caster, a stem extending therefrom, a conically-coiled spring having the uppermost coil bearing against the under side of said base-plate, clips secured near the edge of the base-plate engaging said coil, and a guide for said stem extending centrally through said base-plate and projecting a distance both above and below the same, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES C. ALDEN.

Witnesses:

C. H. WELCH,  
DAVID E. GOULD.