(Model.)

O. PEDERSON.

FURNITURE CASTER.

No. 438,422. Patented Oct. 14, 1890.

Fig. 1.

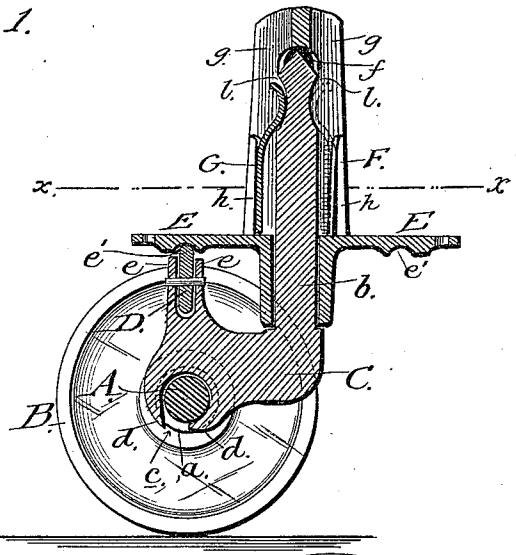


Fig. 2.

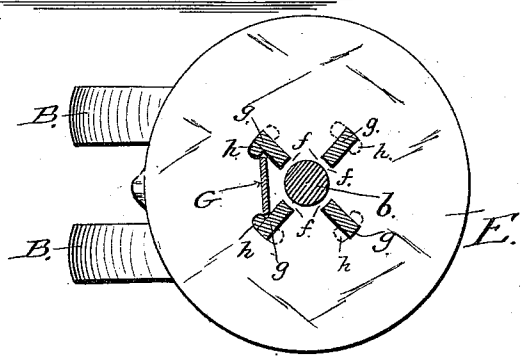
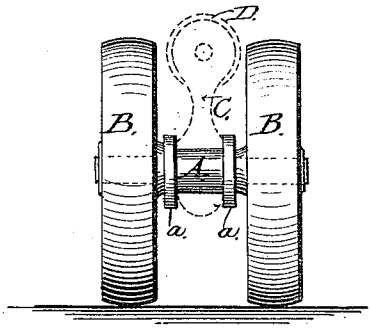


Fig. 3.



WITNESSES

Chapman Fowler

N. T. Miller

INVENTOR

Ole Pederson,

by A. H. Evans & Co

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

OLE PEDERSON, OF MOLINE, ILLINOIS, ASSIGNOR TO THE SLEIGHT MANUFACTURING COMPANY, OF SAME PLACE.

FURNITURE-CASTER.

SPECIFICATION forming part of Letters Patent No. 438,422, dated October 14, 1890.

Application filed June 27, 1890. Serial No. 356,978. (Model.)

To all whom it may concern:

Be it known that I, OLE PEDERSON, a citizen of the United States, residing at Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Furniture-Casters, of which the following is a full and clear description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a sectional view taken through the center of the caster. Fig. 2 is a horizontal sectional view on the line X X of Fig. 1. Fig. 3 is a front view of the axle and ground-wheels.

My invention relates to casters for furniture; and it consists in the construction and combinations of parts, which I shall hereinafter describe and claim.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now describe its construction and indicate the manner in which the same is carried out.

In the accompanying drawings, A represents the axle having the collars *a* near the middle portion, and B are the ground-wheels mounted upon each end of the axle and being slightly "crowned"—that is, slightly higher at the center than at the sides.

The shank C is formed with an integral spindle *b* at its rear, and at its front under portion it has an opening *c*, forming two downwardly-projecting lips *d*, which straddle the axle between the collars *a* and are adapted to have one or both bent inward under the axle to retain the shank to the axle and to permit the usual rocking or oscillating movement.

From the upper front portion of the shank projects two lugs *e*, between which is mounted a small friction-roller D, which is adapted to travel in and be guided by a groove *e'*, formed in the bottom of plate E—that is, formed as an integral part of the hub F—adapted to receive the spindle *b*, the said plate E and its hub being designed to be secured to the furniture in the usual manner.

That portion of the hub F which projects above the plate E is made in the form of a + in horizontal section, the said portion consisting, essentially, of four radial arms *g*, joined together at their upper ends and cut away on their inner sides to form slots *f* at the intersection of adjoining arms, while at the bases of one or more of said arms *g* are inwardly-projecting lugs *h*, which form shoulders for securing in position a flat spring G, whose upper end is curved and reduced in size so that it may enter the slot *f*. Each of the four angles of the hub may have a spring-plate G secured therein, if desired, although one plate will serve in nearly every instance, and the upper end of the spring which enters the slot *f* is designed to engage a concave annular groove *l*, formed in the upper portion of the spindle, whereby said spring retains the spindle and its shank within the hub, but allows said spindle to be withdrawn upon applying a slight pull thereto.

From this description it will be seen that the shank is made integral with its spindle, its bearing for the axle, and its bearing for the friction-roller, and that the spring which holds the spindle in place is confined between the lugs *h*, which extend only part way up the arms *g* of the hub, and thereby permits the spring to be put in position or removed when desired.

To unite the shank with the hub which is permanently secured to the furniture, the spindle is passed into the central opening in the hub far enough to permit the upper end of the spring-plate to engage the concave groove in the spindle and thereby hold the parts together against accidental disengagement. To remove the shank from the hub the operator exerts a slight pull upon the former, which depresses the free end of the spring and permits the spindle to be withdrawn.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a furniture-caster, the shank having the spindle provided with an annular groove near its top, the wheels, and the axle, in combination with the hub having arms with inwardly-projecting lugs, and slots at the intersection of the arms, and a spring-plate confined between said lugs, with its free end passing into said slot and bearing in the groove in the spindle, whereby the spindle is held in position, substantially as herein described.

OLE PEDERSON.

Witnesses:
E. H. SLEIGHT,
MIEAR PEDERSON.