(No Model.)

O. PEDERSON.

FURNITURE CASTER.

No. 343,725. Patented June 15, 1886.

Fig. 1.

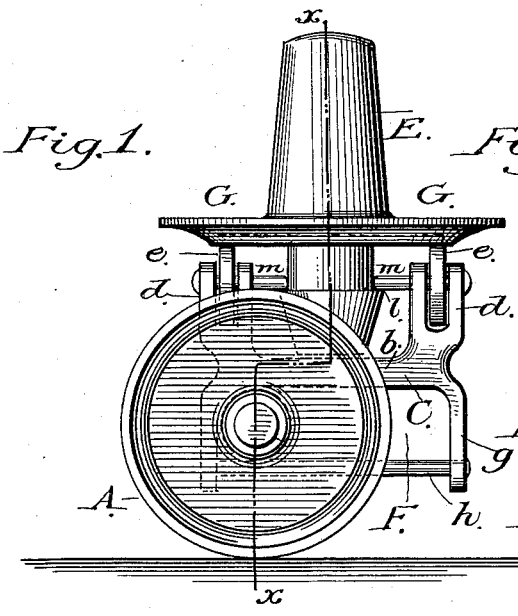


Fig. 2.

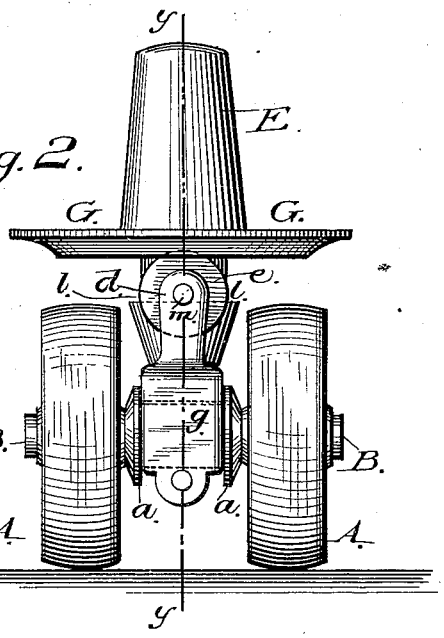


Fig. 3.

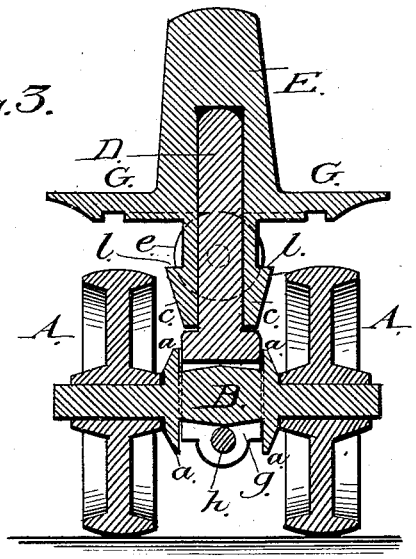
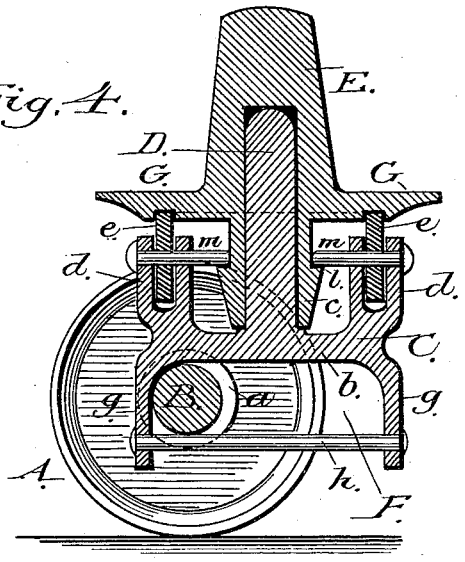


Fig. 4.



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FURNITURE-CASTER.

SPECIFICATION forming part of Letters Patent No. 343,725, dated June 15, 1886.

Application filed October 28, 1885. Serial No. 181,136. (No model.)

To all whom it may concern:

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

Figure 1 represents a side elevation of a furniture-caster embodying my improvements. Fig. 2 is a front elevation of the same. Fig. 3 is a longitudinal sectional view on the line *x x* of Fig. 1. Fig. 4 is a transverse sectional view on the line *y y* of Fig. 2.

My invention relates to furniture-casters; and the same consists in the construction and combination of devices which I will hereinafter describe, and specifically point out in the claims.

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

In the said drawings, A represents the main or bearing wheels, loosely mounted upon an axle, B, which is provided with two flanges, *a a*, the purpose of which will be hereinafter fully described.

The fork C, in the present instance, is of peculiar construction, and is especially designed to operate in conjunction with an axle having flanges similar to those just described. This fork C consists, essentially, in a plate, *b*, from the center of which projects a stem, D, that enters the base or lower hub, *c*, of a suitable shell, E. Projecting upwardly from the plate *b* and near each end of the fork are suitable lugs, *d*, which furnish bearings for the anti-friction rollers *e*, while said fork is also provided with downwardly-projecting ears *g*, connected by a bar, *h*, or equivalent device, and forming an elongated slot or passage, F, within which is confined the axle in such manner that said axle is adapted to travel the entire length of the slot F, and moving from one side of the central line of the fork and stem to the opposite side. This construction gives an easy motion to the bearing-wheels A, and enables the said wheels to travel forward and return in a straight line, while the flanges *a* on the main axle engage the sides of the fork and prevent lateral movement. It will be noticed the axle B is made to taper slightly from its center toward each of the flanges, this construction effectually preventing the axle from binding in the fork.

The shell E is provided with a plate, G, having an annular groove in which the rollers *e* travel, and a lower hub or sleeve, *c*, which receives the stem, and this sleeve, as before described, has a shoulder, *l*, which is engaged by the pintles *m* of the anti-friction rollers *e*, and retains the shell in its proper position upon the stem.

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

1. In a furniture-caster, the combination, with the bearing-wheels, of an axle which tapers from its center toward each end and adapted to be confined and travel within an elongated slot or passage formed between the ends of a suitable fork, substantially as herein described.

2. In a caster, an axle tapering from its center toward the ends and provided upon each side of its center with flanges, in combination with a fork having a slot or passage formed between its ends and a stem projecting from its upper surface, substantially as herein described.

3. In a furniture-caster, the fork provided with a stem and bearings for suitable anti-friction rollers, in combination with an axle traveling in a passage or slot formed between the ends of the fork, and provided with flanges which engage the sides of said fork and prevent lateral motion, substantially as described.

4. As an improvement in furniture casters, a fork, C, comprising a plate, *b*, a stem projecting from said plate, suitable lugs, *d*, for the anti-friction rollers, downwardly-projecting ears *g*, and a bar, *h*, connecting the ears and forming a passage or slot, F, which incloses and in which travels the main axle, substantially as described.

5. In a furniture-caster, the bearing-wheels, an axle, a fork having a stem formed integral therewith and projecting therefrom, and suitable bifurcated lugs upon each end of the fork, in

combination with anti-friction rollers mounted in the lugs, a shell having a hub provided with a groove or shoulder, and the pintles *m*, engaging the shoulder, substantially as herein described.

6. In a furniture-caster, the fork C, shell E, and bearing-wheels A, in combination with an axle which tapers from its center toward each end, and the flanges *a* upon each side of the center of the axle, substantially as herein described.

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