

E. HOFFSTAETTER.
Caster for Furniture.

No. 196,017.

Patented Oct. 9, 1877.

Fig. 1.

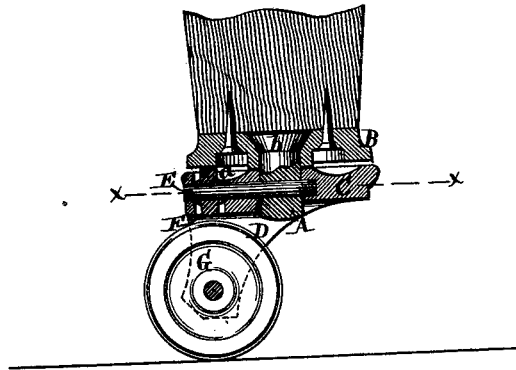
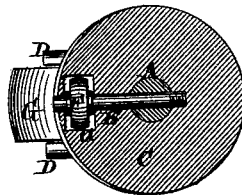


Fig. 2.



Witnesses.
Otto Stiefelund
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by
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UNITED STATES PATENT OFFICE.

ERNST HOFFSTAETTER, OF NEW YORK, N. Y.

IMPROVEMENT IN CASTERS FOR FURNITURE.

Specification forming part of Letters Patent No. **196,017**, dated October 9, 1877; application filed April 18, 1877.

To all whom it may concern:

Be it known that I, ERNST HOFFSTAETTER, of the city, county, and State of New York, have invented a new and useful Improvement in Furniture-Casters, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a vertical central section of a caster containing my improvement. Fig. 2 is a horizontal section thereof in the plane of the line *x x*, Fig. 1.

Similar letters indicate corresponding parts.

My improvement has reference to the construction of furniture-casters; and consists in a center-pin which is provided with a head, and passed through a cap-plate which is adapted to be affixed to the lower end of a table-leg or other article of furniture, while on the lower part of said center-pin is arranged the roller-frame of the caster, through which frame, as well as through the said center-pin, is passed a transverse bolt, in such a manner that the roller-frame and center-pin are thereby firmly held together; also, in combining with the caster an anti-friction wheel, which is situated in an opening formed in the roller-frame, and mounted on the said transverse bolt, so as to form a bearing between the cap-plate and the roller-frame, as hereinafter more fully described and claimed.

In the drawing, the letter A designates the center-pin of my caster, on the upper end of which is formed a head, *b*, which, in the example shown, has a conical shape. B is a cap-plate, through which the center-pin A is passed, and which is provided with a cavity in its upper surface to receive the head *b* of said pin. This cap-plate B, moreover, is provided with holes, so that it may be affixed to the lower end of a table-leg, or to any other article of furniture, by means of screws or rivets, and without materially weakening the leg.

When my caster is to be applied to a table-leg or other like article, a lateral flange or rim may be substituted for the holes in the cap-plate B, or added thereto, which said flange or rim is adapted to embrace the lower end of the leg.

The roller-frame of my caster is composed of a plate, C, and a bracket, D, and it is

mounted on the center-pin A through the plate C. Now, the center-pin A and the plate C of the roller-frame are each provided with a transverse hole, through which is passed a bolt, E, the hole in the plate C being made to terminate a little beyond the center-pin A, on one side of the latter, and the bolt E being fastened at its inner end by means of a screw-thread formed on the bolt and in said hole, as clearly shown.

It will be noticed that by means of the bolt E the roller-frame C D and the cap-plate B are held together, while they are moreover caused to turn with each other.

In the plate C is formed an opening, *a*, which intersects the bolt E, and in this opening is situated an anti-friction wheel, F, which is mounted loosely on said bolt. The anti-friction wheel F is of such diameter that it bears against the under surface of the cap-plate B, and by its means the perfect working of the parts of my caster is insured.

In order to increase the effect of the anti-friction wheel F, I arrange the same in a vertical plane with the axis of the roller G of the caster, as shown in Fig. 1.

One of the advantages of my caster is, that it is made without the usual socket, and hence does not weaken the table-leg or other article to which it may be applied. Another advantage is its simple construction and comparatively cheap cost.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a caster, of a center-pin, A, having a head, *b*, with a cap-plate, B, roller-frame C D, and a transverse bolt, E, passing through the center-pin, substantially as described.

2. The combination of an anti-friction wheel, F, with the transverse bolt E, and journaled thereon, the roller-frame C D, cap-plate B, and center-pin A, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 17th day of April, 1877.

ERNST HOFFSTAETTER. [L. S.]

Witnesses:

J. VAN SANTVOORD,
E. F. KASTENHUBER.