G. W. WAITT.

Casters.

No. 145,769. Patented Dec. 23, 1873.

Fig. 1.

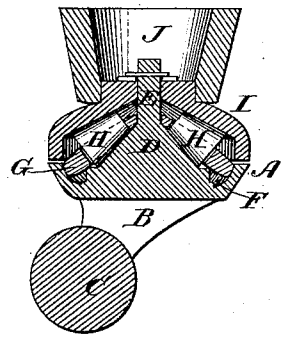


Fig. 2.

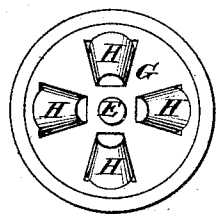


Fig. 3.

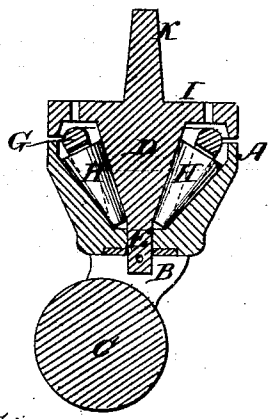
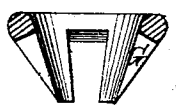


Fig. 4.



Witnesses.
C. F. Brown
H. W. Ellsworth

Inventor
G. W. Waitt.
by his Attys.
Hill & Ellsworth

UNITED STATES PATENT OFFICE.

GEORGE W. WAITT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CASTERS.

Specification forming part of Letters Patent No. **145,769**, dated December 23, 1873; application filed April 28, 1873.

To all whom it may concern:

Be it known that I, GEORGE W. WAITT, of Philadelphia city and county, and State of Pennsylvania, have invented certain new and useful Improvements in Casters; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figures 1 and 3 are sectional elevations of my invention. Fig. 2 is a top view of the channeled disk and convex roller-plate. Fig. 4 is a sectional elevation of the conical roller-plate.

Similar letters of reference in the accompanying drawings denote the same parts.

This invention consists in the employment, in a caster, of conical friction-bearings held in an inclined position by a web provided with slots, said friction-rollers having an orbital and at the same time a motion of revolution on their axes, and also moving on conical surfaces on the two main portions of the caster.

In the accompanying drawings, A is the circular head, which bears the arms B, between which the wheel C is mounted. In Fig. 1, this head is represented as having a groove, F, running around its upper side, parallel with its periphery, and within the groove, and rising from the head a cone, D, from the top of which springs the vertical axis E. Resting upon this cone, and having its lower edge within the groove F, is a roller-plate, G, provided with four, more or less, radial slots, in which are placed conical friction-rollers H, which rest on the cone D, and are held in place by the plate G. I is the cap, of equal diameter with the head A, and having a top conical inside, which rests on the rollers H. Through the center of the cap I passes the axis E. The socket J, which receives the furniture-leg, fits over a shoulder on the top of the cap I. By this arrangement the head A is allowed to rotate freely on its vertical axis, as the rollers H support the weight of the furniture.

In Fig. 3, the head A is wholly concave, the roller-plate extending downward within the same. The cone D projects from the cap I downward, and the axis E extends from the lower end of the cone. In this arrangement there is no socket, the pintle K, springing from the top of the cap, taking its place.

I claim as my invention—

The grooved head A, provided with the cone D and conical cap I, in combination with the slotted web G and inclined conical rollers H, as and for the purpose set forth.

GEO. W. WAITT.

Witnesses:
DAVID H. BUCK,
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