

O. PEDERSON.
Furniture Caster.

No. 218,565.

Patented Aug. 12, 1879.

Fig. 1

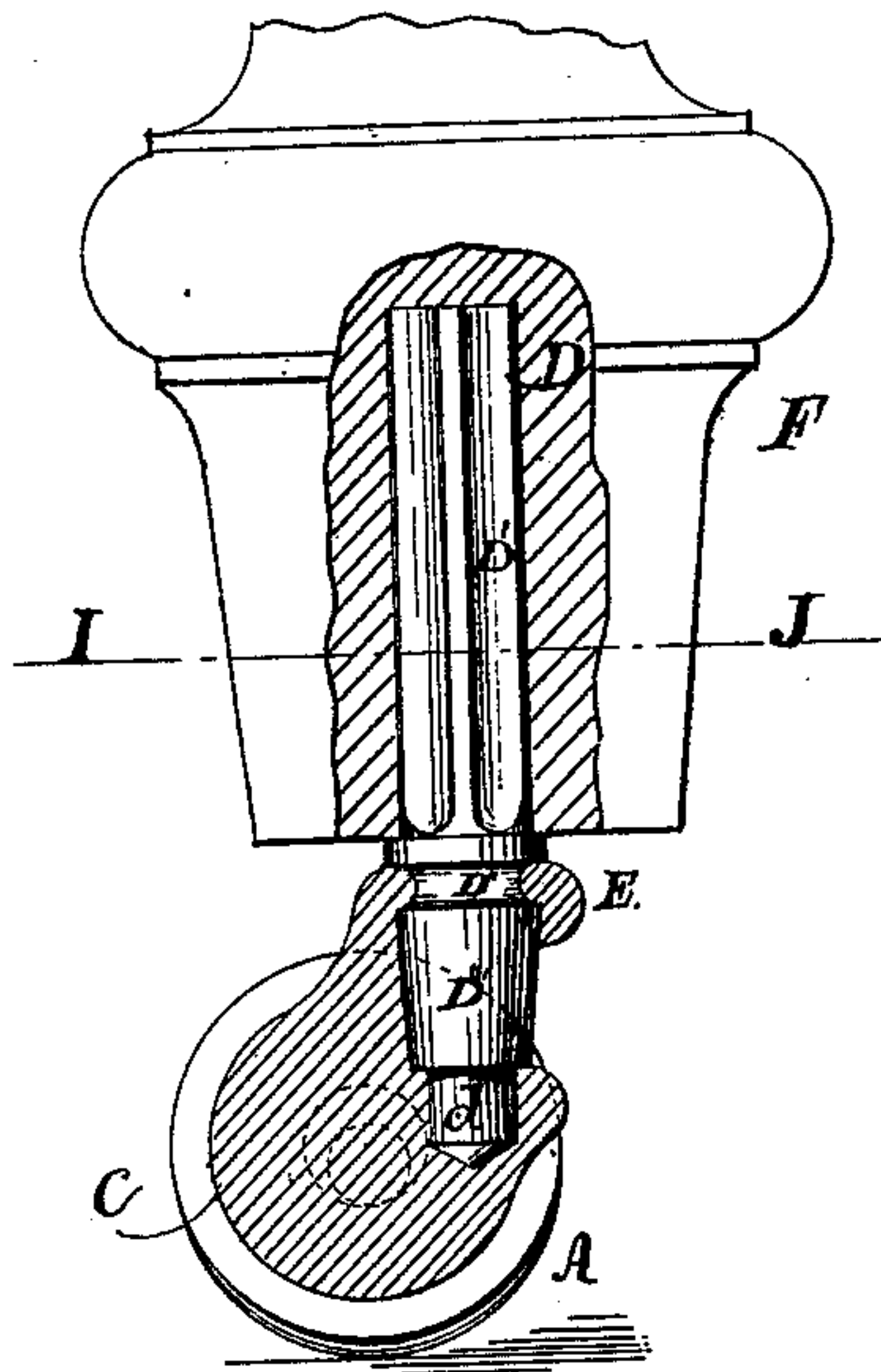


Fig 2

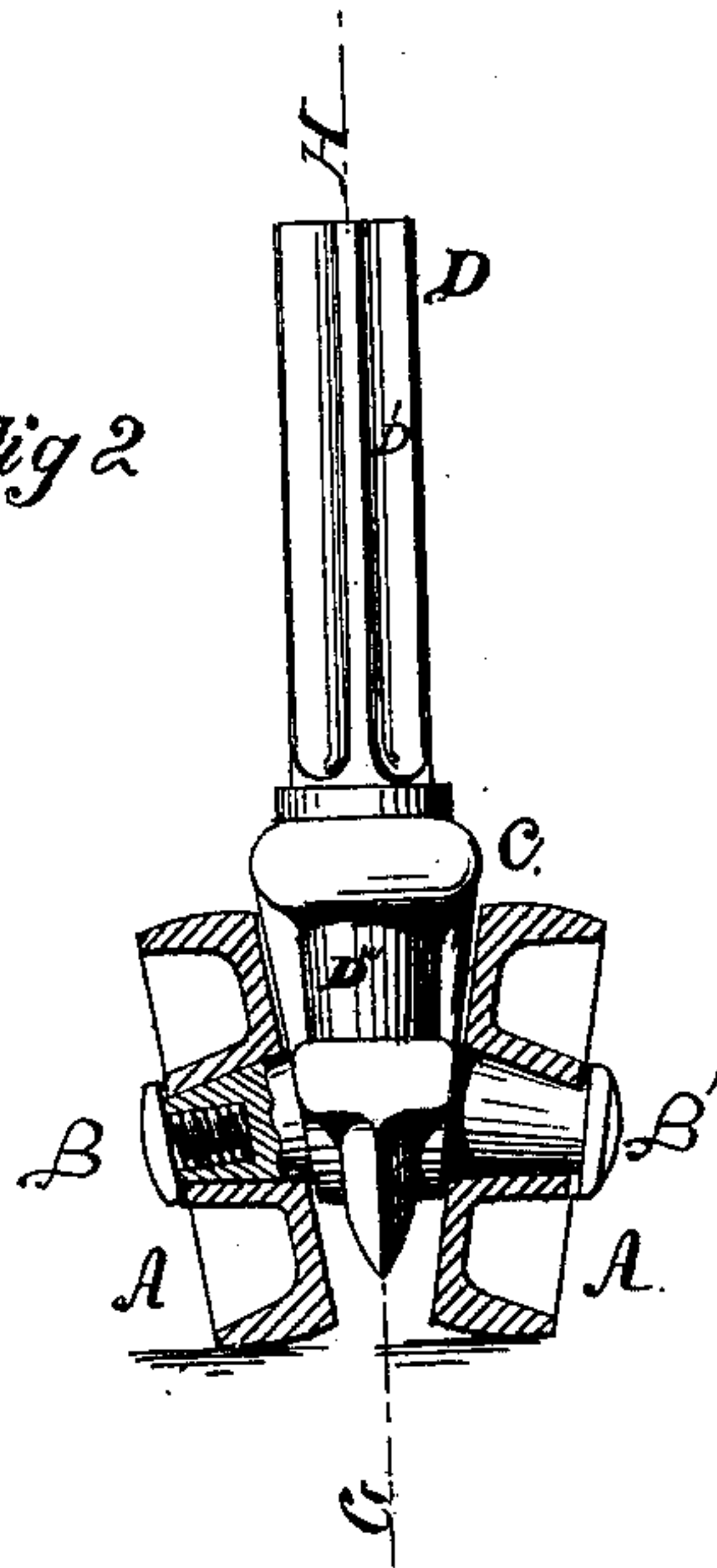
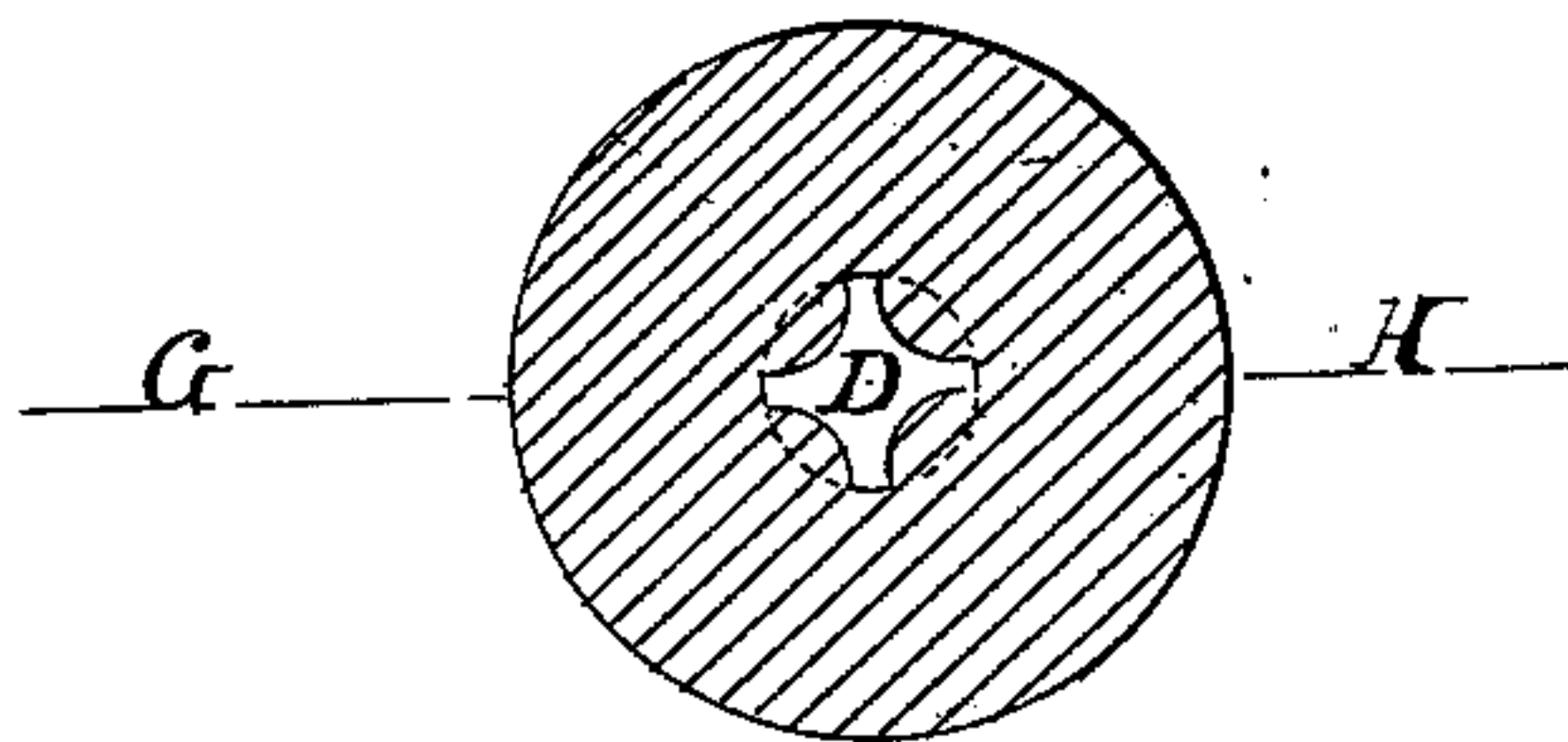


Fig. 3.



Attest;

J. C. Weston
Charles Evert

Inventor;

Ole Pederson
By F. H. Neal his atty.

UNITED STATES PATENT OFFICE.

OLE PEDERSON, OF JOLIET, ILLINOIS.

IMPROVEMENT IN FURNITURE-CASTERS.

Specification forming part of Letters Patent No. **218,565**, dated August 12, 1879; application filed March 17, 1879.

To all whom it may concern:

Be it known that I, OLE PEDERSON, of Joliet, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Furniture-Casters; and I do hereby declare the following to be a clear, full, and exact description of the invention, sufficient to enable one skilled in the art to which it belongs to make and use the same without further invention or experiment, reference being had to the drawings hereunto annexed, in which—

Figure 1 represents a sectional side view of my caster as applied to the leg of a piece of furniture; Fig 2, an elevation of the same, detached, showing section of ground-rollers; Fig. 3, a horizontal section taken at I J, Fig. 1.

My invention relates to certain improvements in furniture-casters; and consists of a peculiarly-shaped single shank with vertical pivot cast loosely therein, having upon each side, and solidly connected with said shank, two inclined conical pivots carrying two oblique ground-rollers.

Referring to the drawings, C is the shank, D the vertical, and B and B' the two conical, pivots, carrying ground-rollers A A. It will be seen that the axes of said pivots are inclined sufficiently to cause their under sides to attain a horizontal position, which inclination, by pitching the tops of said rollers outward and the bottoms inward—*i. e.*, toward each other—counteracts any tendency of the rollers to crowd the outer end of the pivots.

Fig. 2 shows rollers secured on pivots by screw, as in B, or solid head or knob, as at B'. In the latter case rollers must be cast first and cleaned, then set up in the mold in which the shank is cast, allowing the liquid metal to flow through their eyes, forming a knob upon the outside. This chills the metal, and, if it be "chilling-iron," renders the pivots extremely hard and durable. The metal in cooling shrinks away from rollers, allowing them ample freedom to turn.

Again, referring to the drawings, it will be seen that vertical pivot B consists, in part, of a fluted portion, D, that engages with the wood in which it is driven. The hole being bored somewhat smaller causes it (the wood) to take a firm hold upon the pivot, retaining it securely in place. The journal of said pivot consists of a conical part, D'', in the top of which is the annular groove D'', which, engaging with metal of shank, keeps it from falling off when raised. Said conical portion of pivot is terminated by the cylindrical part *d*. Like the ground-rollers, it is necessary to cast the said pivot first and set it up in the same mold, and let metal of shank flow around it; but, as the shrinkage of metal in this case would tend to bind and keep it from turning freely, it will be found necessary to cover the surface of said pivot with some substance like sand and shellac prior to setting up, to preserve sufficient space between surfaces.

It will thus be seen from the foregoing, owing to the limited amount of fitting necessary, that great economy is attained, and, from the extreme hardness of wearing-surfaces, great durability.

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

1. The vertical pivot D, having the fluted portion D', substantially as and for the purpose shown and described.

2. The vertical pivot D, having the fluted portion D', in combination with the shank C provided with the inclined pivots B B', connected solidly therewith, and the oblique ground-rollers A A, all constructed to operate substantially as and for the purpose described.

OLE PEDERSON. [L. S.]

Witnesses:

F. H. TREAT,
CHARLES W. STAEHLE.