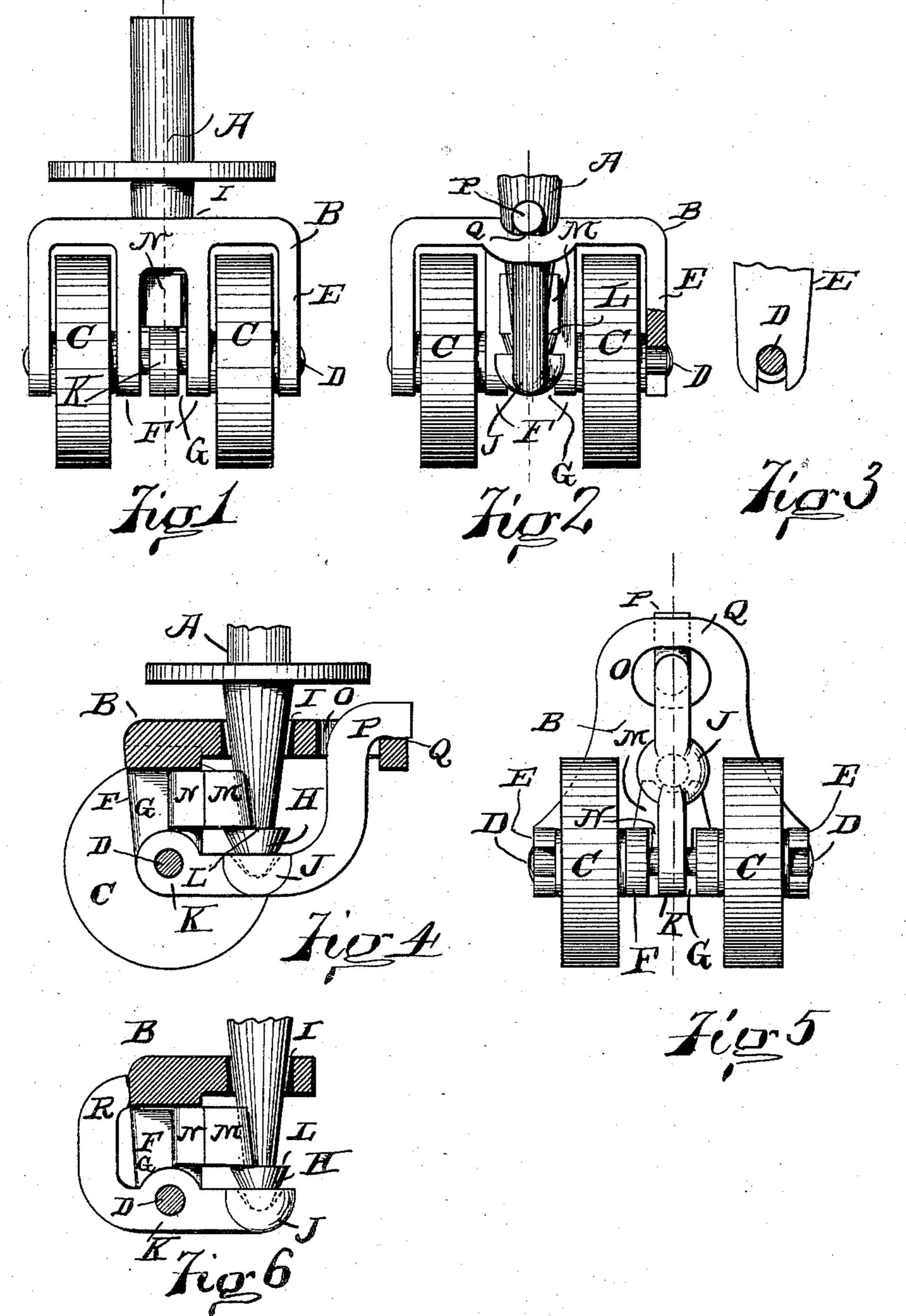
## N. S. THOMPSON.

CASTER.

No. 306,551.

Patented Oct. 14, 1884.



Witnesses:

Worsenward

helson S. Thompson, by James M. SEE

## United States Patent Office.

## NELSON S. THOMPSON, OF HAMILTON, OHIO.

## CASTER.

SPECIFICATION forming part of Letters Patent No. 306,551, dated October 14, 1884.

Application filed April 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, Nelson S. Thompson, of Hamilton, Butler county, Ohio, have invented certain new and useful Improvements 5 in Furniture-Casters, of which the following

is a specification.

This invention relates to the novel arrangement of the parts for permitting the housing to swivel upon a piece which attaches to the 10 furniture, to the means for uniting the spindle to the housing, and to the arrangement of the parts for permitting the housing to oscil-

late with reference to the stem.

The invention will be readily understood 15 from the following description, taken in connection with the accompanying drawings, in which Figure 1 is a rear elevation of a caster embodying my improvements; Fig. 2, a front view of the same, with a portion of one of the 20 outside horns shown in section; Fig. 3, a side view of one of the outside horns at the rivetpoint; Fig. 4, a vertical central section transverse to the wheel-axle; Fig. 5, a bottom view; and Fig. 6, a view similar to Fig. 4, but ex-25 hibiting a modified construction.

In the drawings, A represents the part to attach to furniture, shown as a stem and flange, but which may be of any of the usual forms; B, the housing; C, the wheels; D, the wheel-axle; 30 E, the outside horns of the housing; F, a pair of housing-horns located between the wheels; G, the recess between the two inner horns; H, the foot-step of the stem; I, the free swivelbearing of the stem in the roof of the housing; 35 J, the bearing for the foot-step, formed in a piece separate from the housing; K, a rearward extension or tail of the step-bearing, engaging freely the wheel-axle where it traverses the recess G; L, an upwardly-facing 40 shoulder upon the stem; M, a retaining-block over the shoulder of the stem; N, a rearward shank of the block M, entering the recess G and impinging against the roof of that recess; O, a hole through the roof of the housing, 45 forward of the stem; P, a forward and upward extension of the foot-step bearing-piece J through the opening O, and then horizontally to form a bearing upon the roof of the housing; and Q, the bearing of the extension 50 P upon the roof of the housing.

In all casters of this general class it is usual to drill the housing-horns for the reception of

the wheel-axle. In my arrangement I provide the inner horns, F, with drilled holes for the reception and retention of the wheel-axle; 55 but I provide the outer housing-horns, E, with axle-receiving notches opening downward, as shown in Fig. 3, whereby the drilling of these outer horns is avoided. The block M, en gaging over the shoulder L and under the 60 roof of the recess G, serves to unite the general lower structure to the stem, the stem revolving freely in contact with the front and lower faces of the block. The rearward extension K of the foot-step bearing J does not 65 engage the axle or the walls of the recess G tightly, but, on the contrary, is free to shift somewhat. The bearing of the extension P upon the housing-roof at Q is free, and enables the foot-step bearing to shift sidewise, 70 and enables the wheels to accommodate themselves to inequalities of floor-surfaces. The stem, which of course transmits all of the pressure due to the load, is supported by the bearing J, and this bearing is supported by its 75 rearward engagement with the axle. It is further supported to some extent by hearing at Q. The foot-step bearing is in fact a supporting-lever pivoted at K to the axle, and it is further supported at another point in its 80 length by contact with the housing.

The contact, instead of being at Q, may be at R, as shown in Fig. 6, without departing from the principle of support employed.

I claim as my invention—

1. In a furniture-caster, the combination of a pair of floor-wheels, one or more housinghorns located between the two floor-wheels, and provided with round holes for receiving and holding the wheel-axle, a pair of housing- 90 horns exterior to the two floor-wheels, and provided with axle-receiving notches opening downward, and a wheel-axle passing through both of said floor-wheels and all of said housing-horns, substantially as and for the pur- 95 pose set forth.

2. The combination, in a furniture-caster, of a spindle provided with an upwardly-facing shoulder, a housing provided with a recess, and a rearwardly-shanked block engag- 100 ing the roof of said recess and the face of the said shoulder.

3. The combination, substantially as set forth, in a furniture-caster, of a spindle, a

housing fitted to swivel thereon, and a footstep bearing-piece for the spindle, united to the housings by bearings fitted to permit the bearing-piece to shift sidewise with reference 5 to the housing.

4. The combination, in a furniture-caster, of a spindle, a housing swiveling thereon, and

a foot-step bearing-piece with an extension fulcrumed upon the wheel-axle, and with an extension abutting upon the housing.
NELSON S. THOMPSON.

Witnesses:

J. W. SEE, W. A. SEWARD.