

No. 725,423.

PATENTED APR. 14, 1903.

R. L. DORSEY.  
CASTER.

APPLICATION FILED AUG. 26, 1902.

NO MODEL.

Fig. 1.

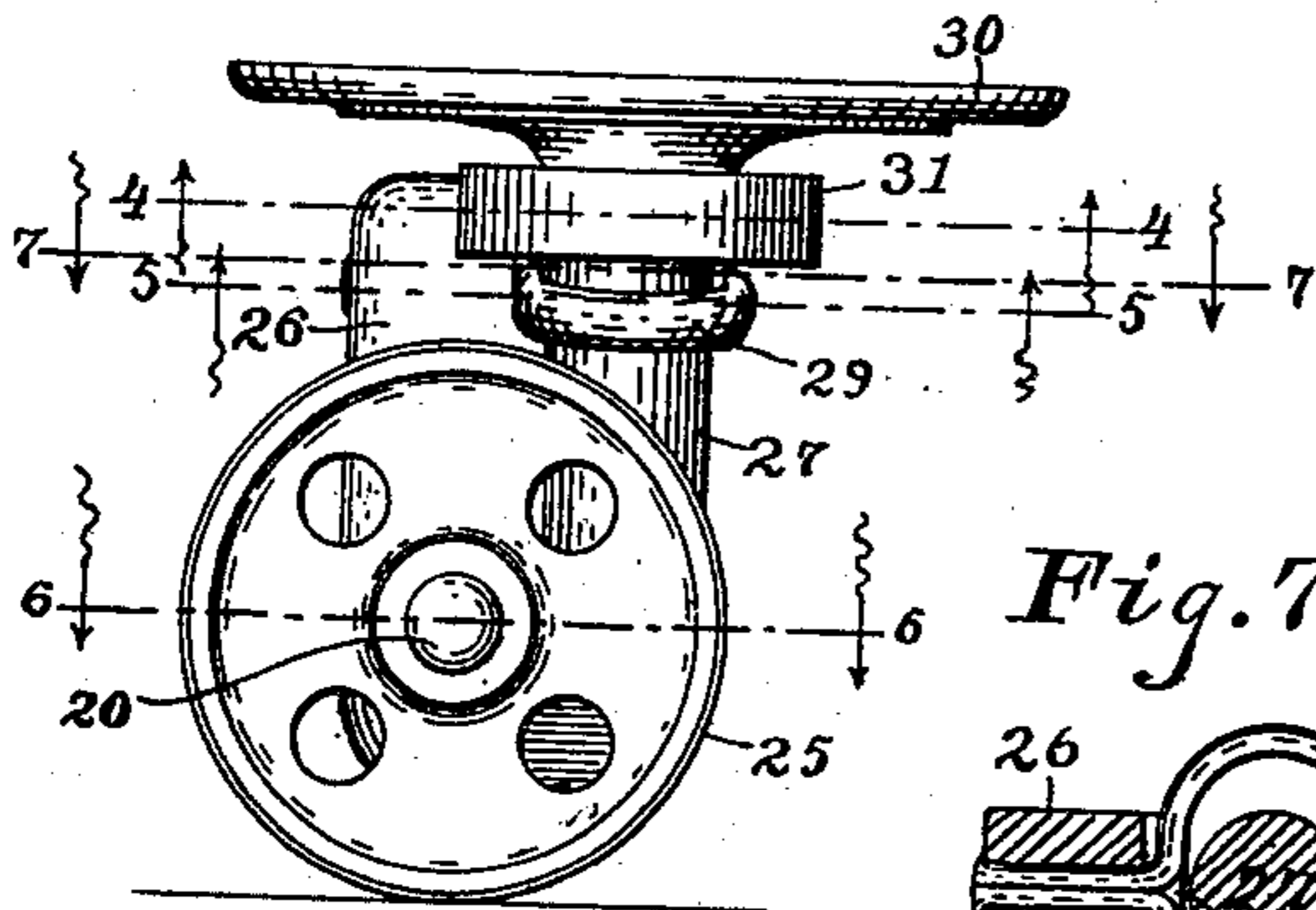


Fig. 2.

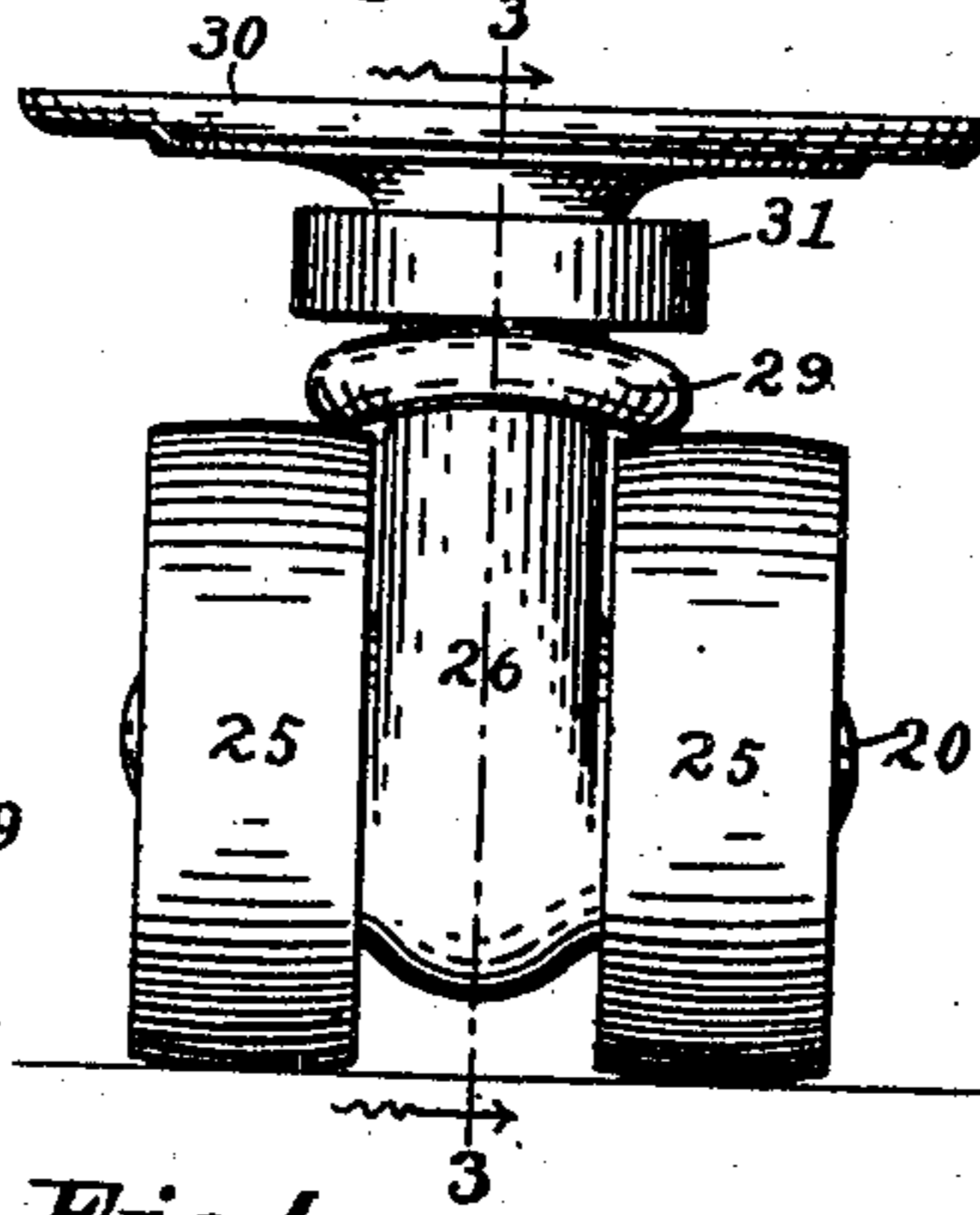


Fig. 7.

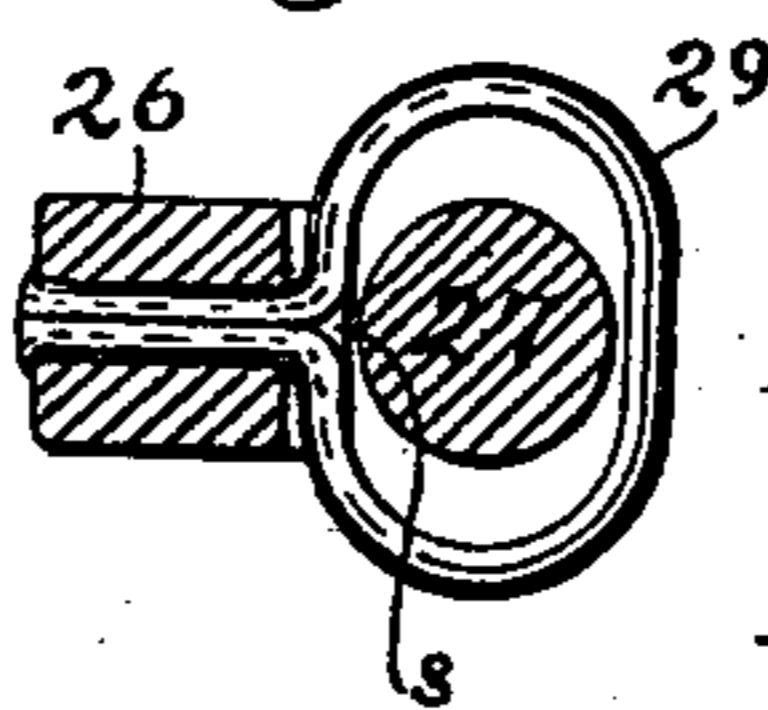


Fig. 3.

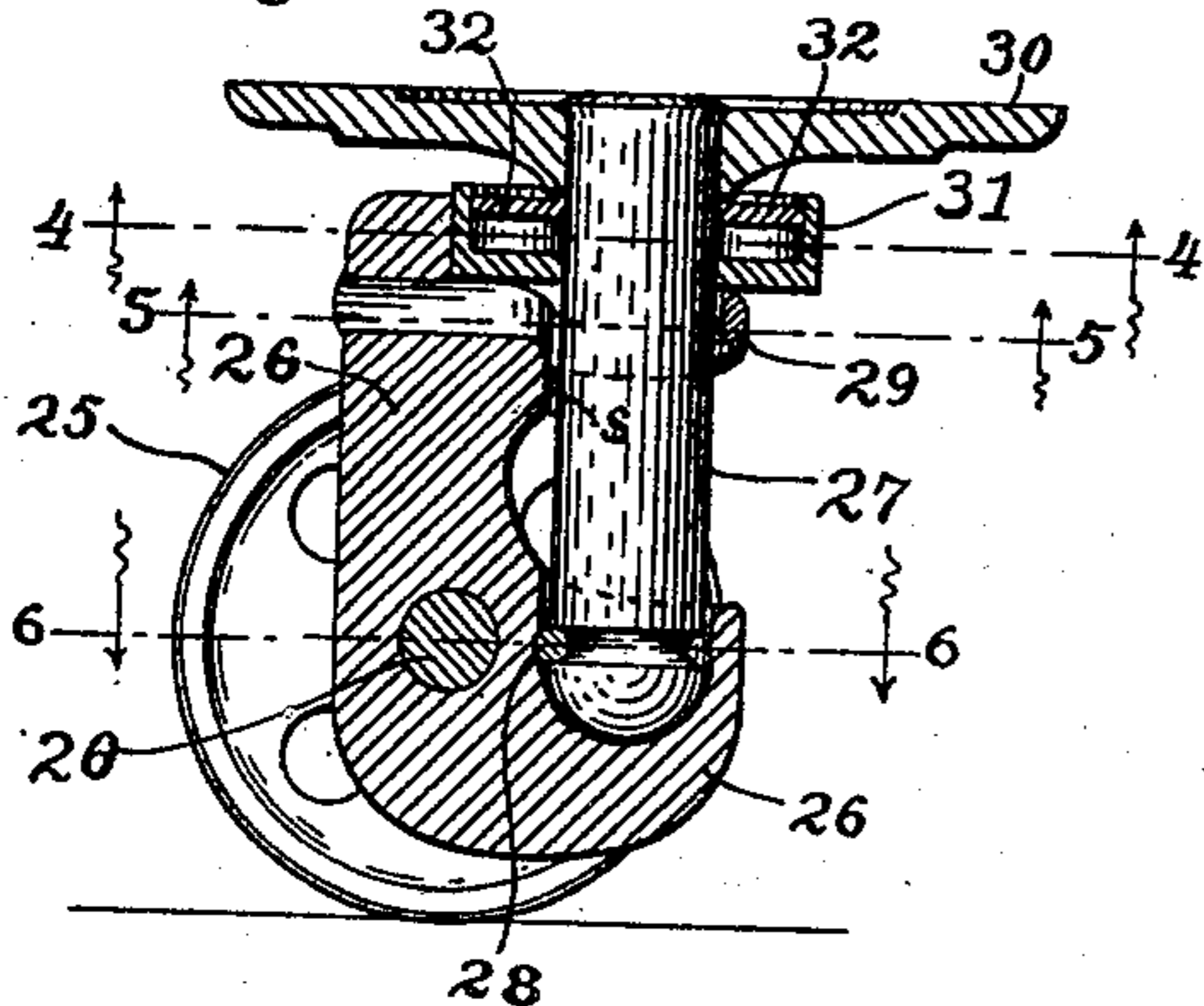


Fig. 4.

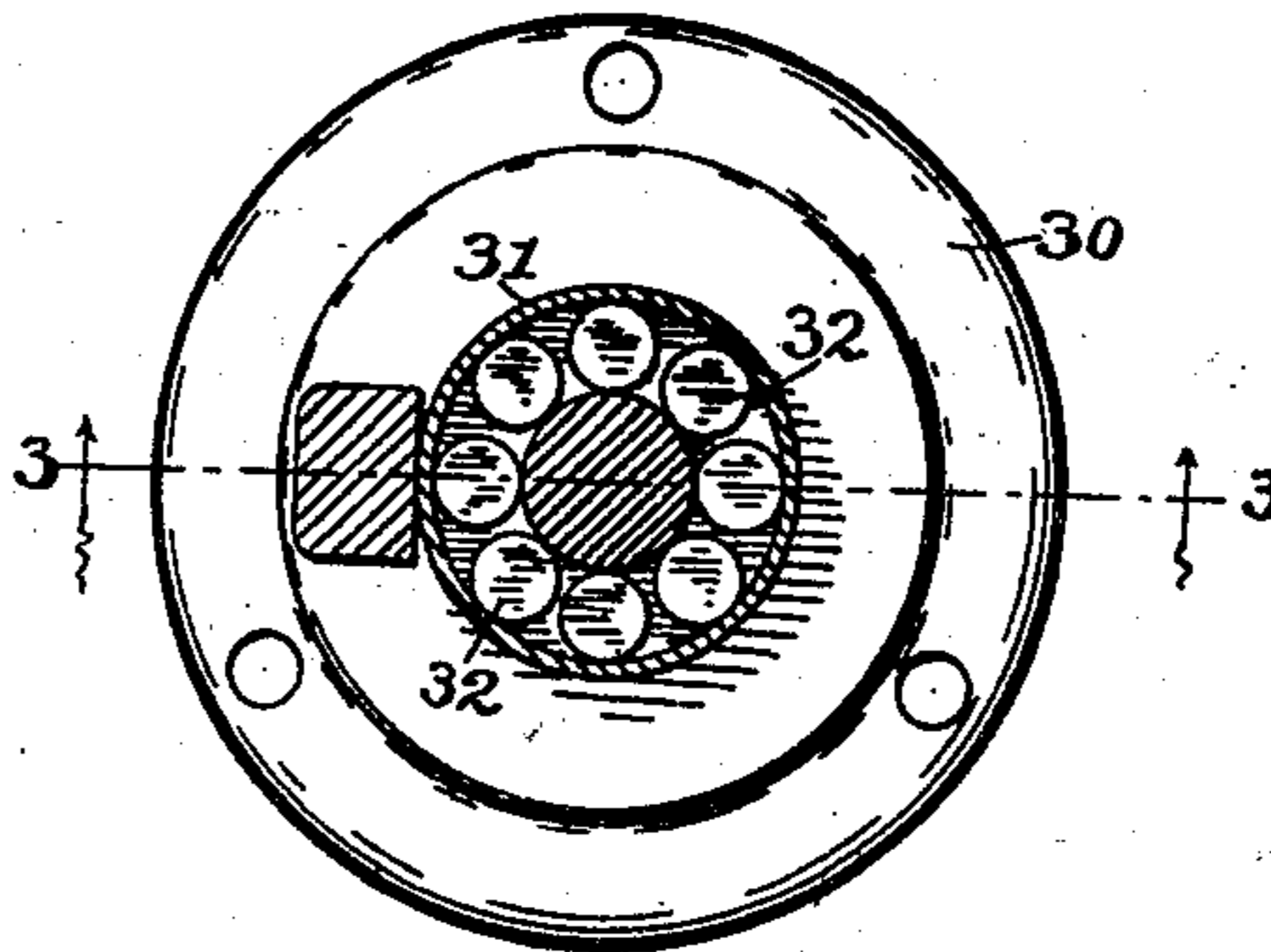


Fig. 5.

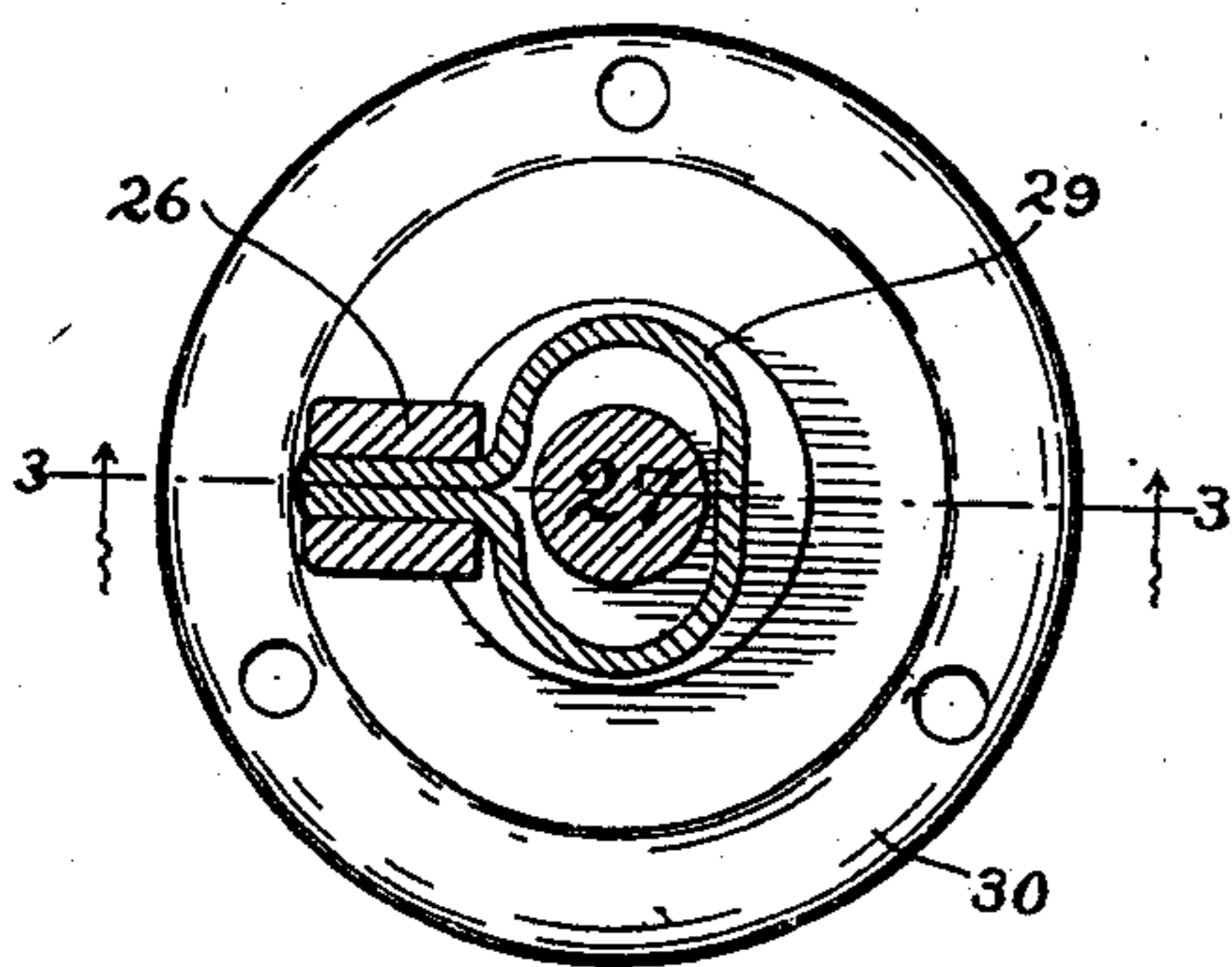
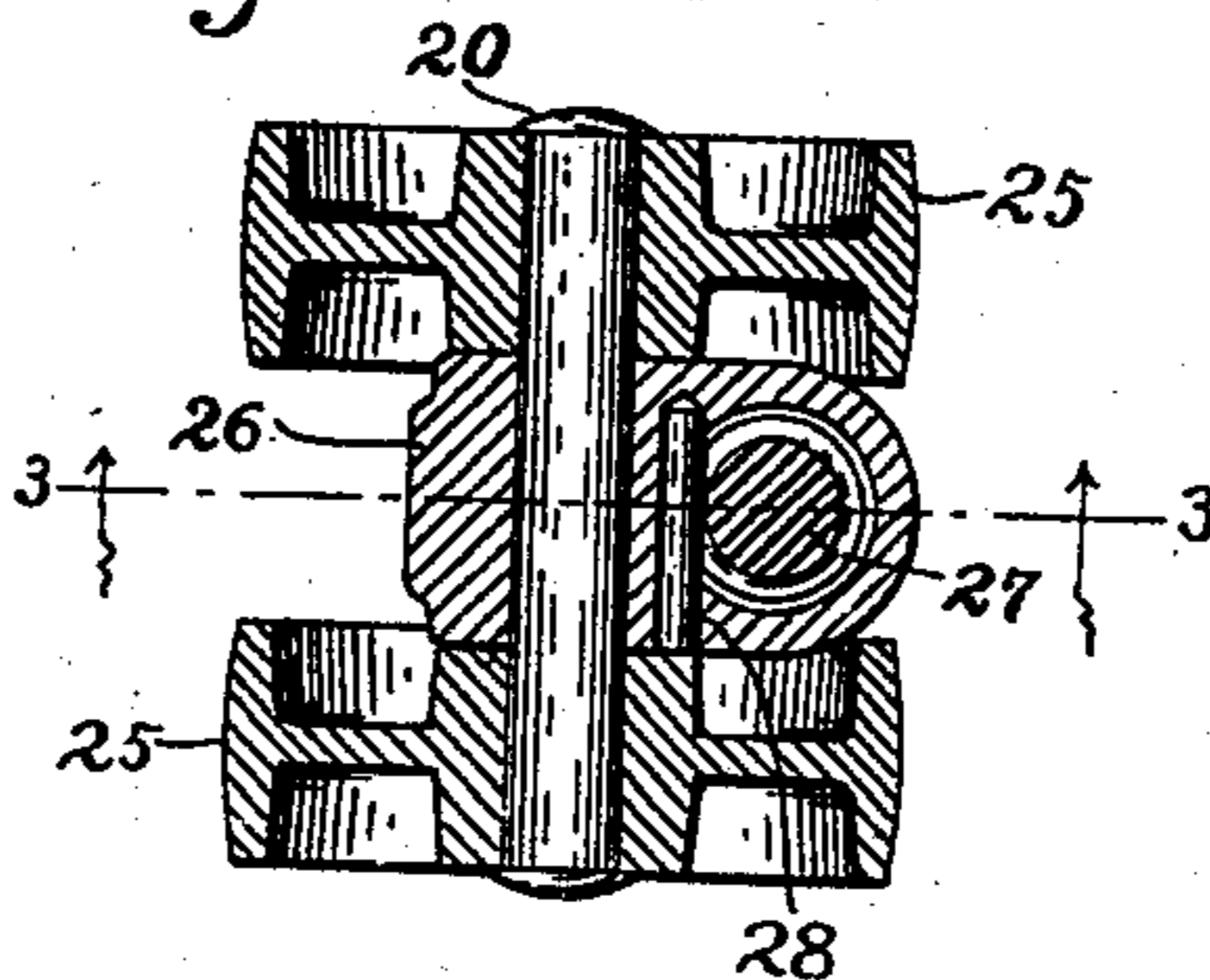


Fig. 6.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ROBERT L. DORSEY, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO TUCKER & DORSEY MANUFACTURING COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF INDIANA.

## CASTER.

SPECIFICATION forming part of Letters Patent No. 725,423, dated April 14, 1903.

Application filed August 25, 1902. Serial No. 120,914. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT L. DORSEY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Casters, of which the following is a specification.

This invention relates to that class of furniture-casters known as "double-wheeled" casters; and its object is to secure inexpensiveness of construction and at the same time great facility of movement or operation.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts, Figure 1 is a side elevation of a caster embodying my said invention; Fig. 2, a rear elevation of the same; Fig. 3, a central vertical sectional view as seen when looking in the direction indicated by the arrows from the dotted line 3 3 in Fig. 2; Figs. 4, 5, and 6, horizontal sectional views as seen when looking in the direction indicated by the arrows from the dotted lines 4 4, 5 5, and 6 6, respectively, in Figs. 1 and 3; and Fig. 7, a detail sectional view of the parts immediately below the dotted line 7 7.

Floor-wheels 25 are mounted on an axle 20, carried in a bearing-block 26 in substantially a usual and well-known manner. The bearing-block 26 has a socket or step-bearing therein, as best shown in Fig. 3, in which bearing a stem 27 rests and which supports said stem and the weight carried thereby. The stem has a circumferential groove near its point, and when the parts are assembled a pin 28, extending through a perforation in the bearing-block which registers with said grooves, prevents separation of these parts. The pin, as is shown in Fig. 6, is held in place by one or both the hubs of the floor-wheels 25. Excessive tipping of the stem and bearing-block relatively to each other is prevented by a loop 29, which, as best shown in Fig. 5, is formed from a wire, (as a cotter-pin wire,) the two ends of which are brought together and pass through a perforation in the upper end of the bearing-block 26 and are there riveted in place, the central part of

said loop being elongated in the direction of length of the axle to the floor-wheels, so that the necessary amount of tipping may be permitted in this direction and the caster thus adapted to pass over uneven surfaces.

A shoulder *s* on the bearing-block 26 extends sufficiently under the loop 29 to prevent said loop from shifting or twisting in the perforation in which it is mounted.

The stem 27 is rigidly secured to a plate 30, which is adapted to be secured to the article of furniture which is to be mounted upon the casters. Just below this plate is a circumferential housing 31, the annular rim of which is disposed concentrically to the stem 27, and within this housing are a series of anti-friction-rollers 32, against which the sides of the stem will bear at this point and which insures the utmost freedom of motion as the caster revolves about its stem. As best shown in Fig. 2, the loop 29 is rocker-shaped on its upper surface, the better to accommodate the movement of the caster parts in relation to each other in operation.

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

1. The combination, in a caster, of the floor-wheels, the bearing-block, the axle therein on which the floor-wheels are mounted, said bearing-block being also provided with a socket-like step-bearing, a stem the lower end of which enters said bearing and which is provided with an annular groove near its lower end, a pin passing into a perforation in the bearing-block and engaging with said groove, a loop also secured to said bearing-block and passing around said stem near its upper end, a plate on the upper end of said stem, a housing below said plate surrounding said stem, and anti-friction-rollers mounted in said housing between the annular wall thereof and the surface of the stem.

2. The combination, in a caster, of the bearing-block or housing having a shoulder, a stem resting in a bearing on said block, and a loop for supporting and guiding the block and stem in their relations to each other composed of a wire surrounding the stem and passing into

a perforation in the bearing-block alongside said shoulder, whereby it is supported and prevented from turning, substantially as set forth.

- 5 3. The combination, in a caster, with the bearing-block or housing, and the stem, of a loop formed of flattened wire with the loop portion formed rocker-shaped or convex upon its upper side, and its ends brought together  
10 and passed through a perforation in the bear-

ing-block or housing where they are secured, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 21st day of August, A. D. 1902.

ROBERT L. DORSEY. [L. S.]

Witnesses:

CHESTER BRADFORD,  
JAMES A. WALSH.