

(No Model.)

J. R. SUTLIFF.
FURNITURE CASTER.

No. 512,920.

Patented Jan. 16, 1894.

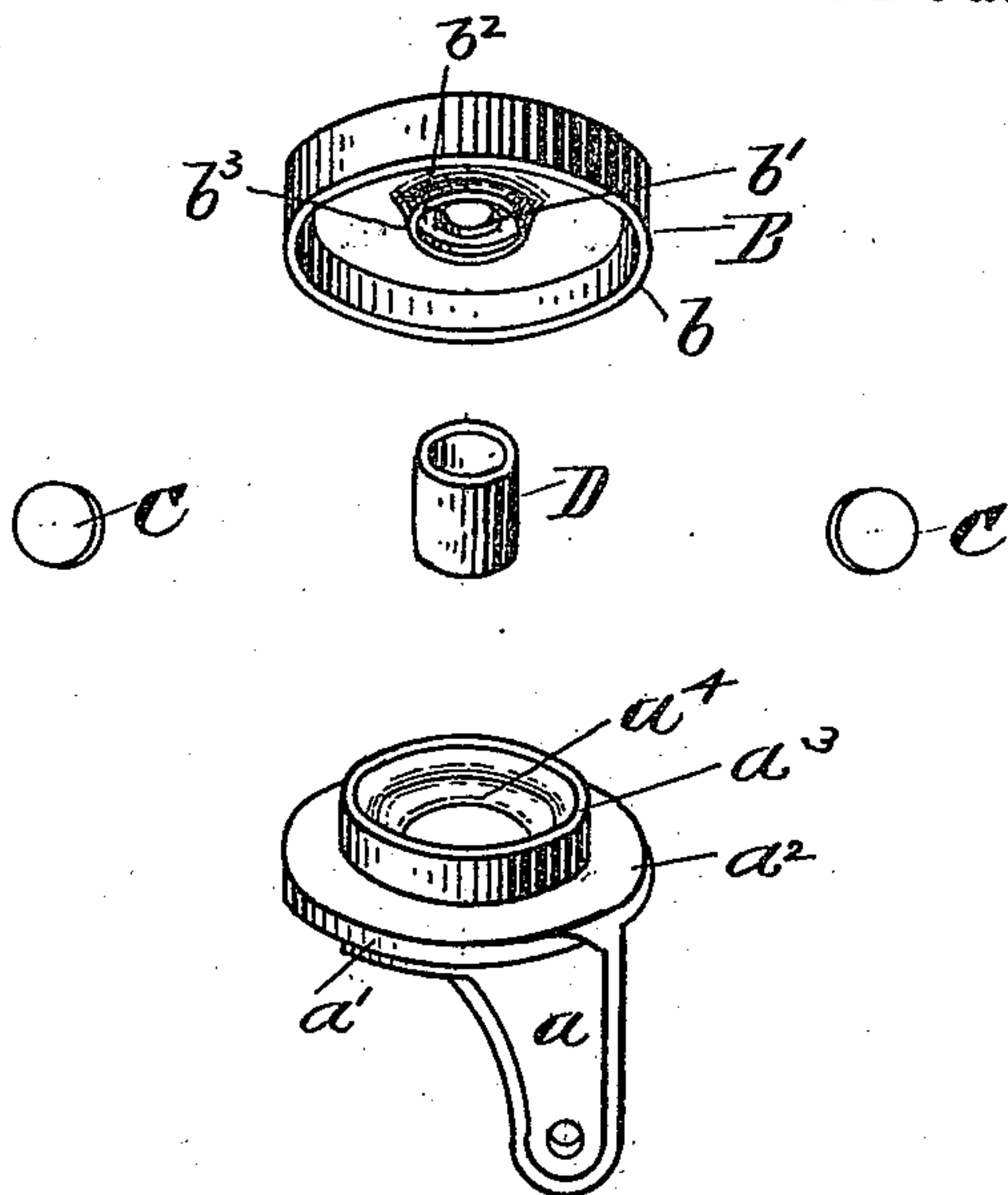


Fig. 1.

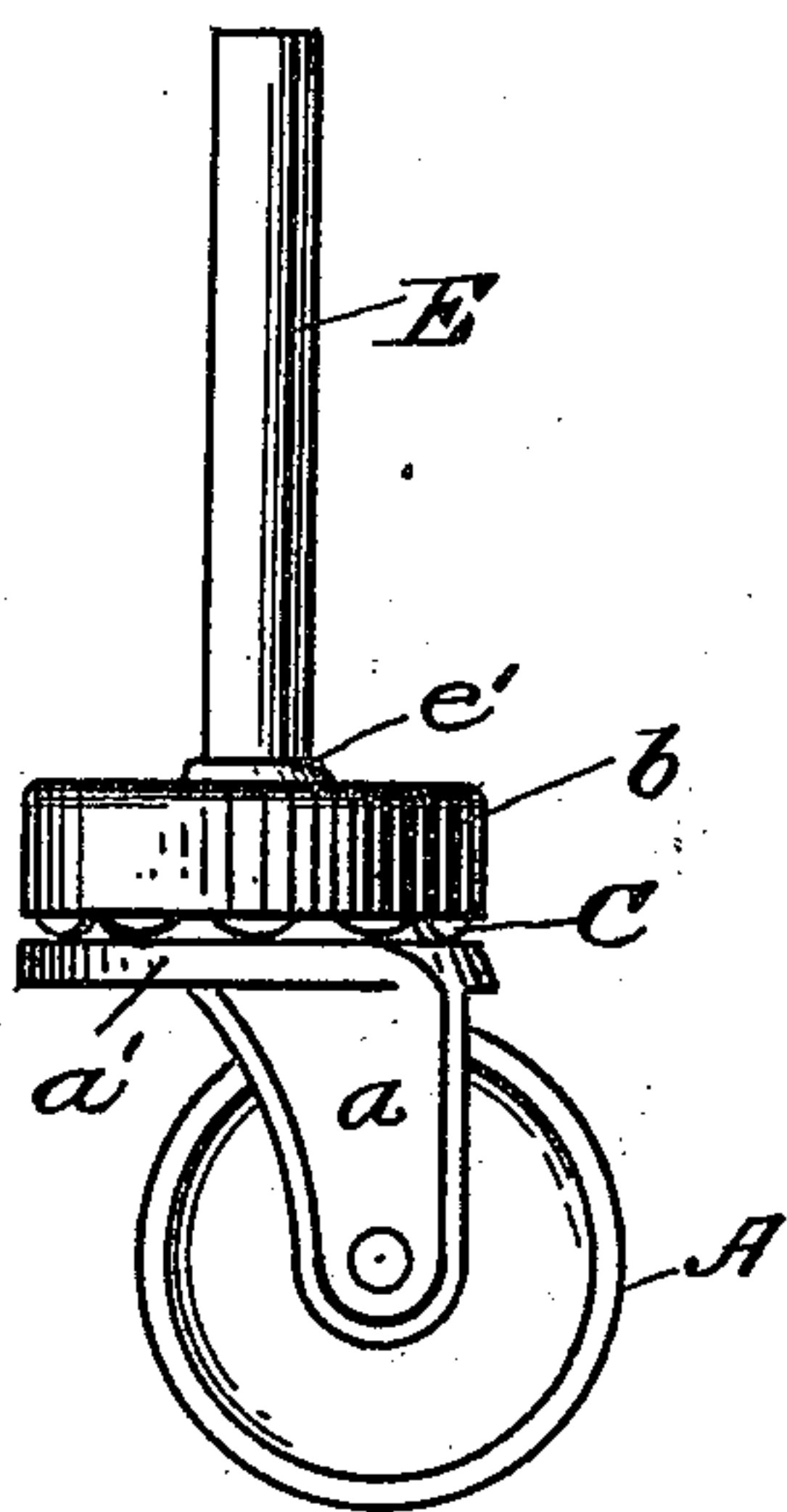


Fig. 2.

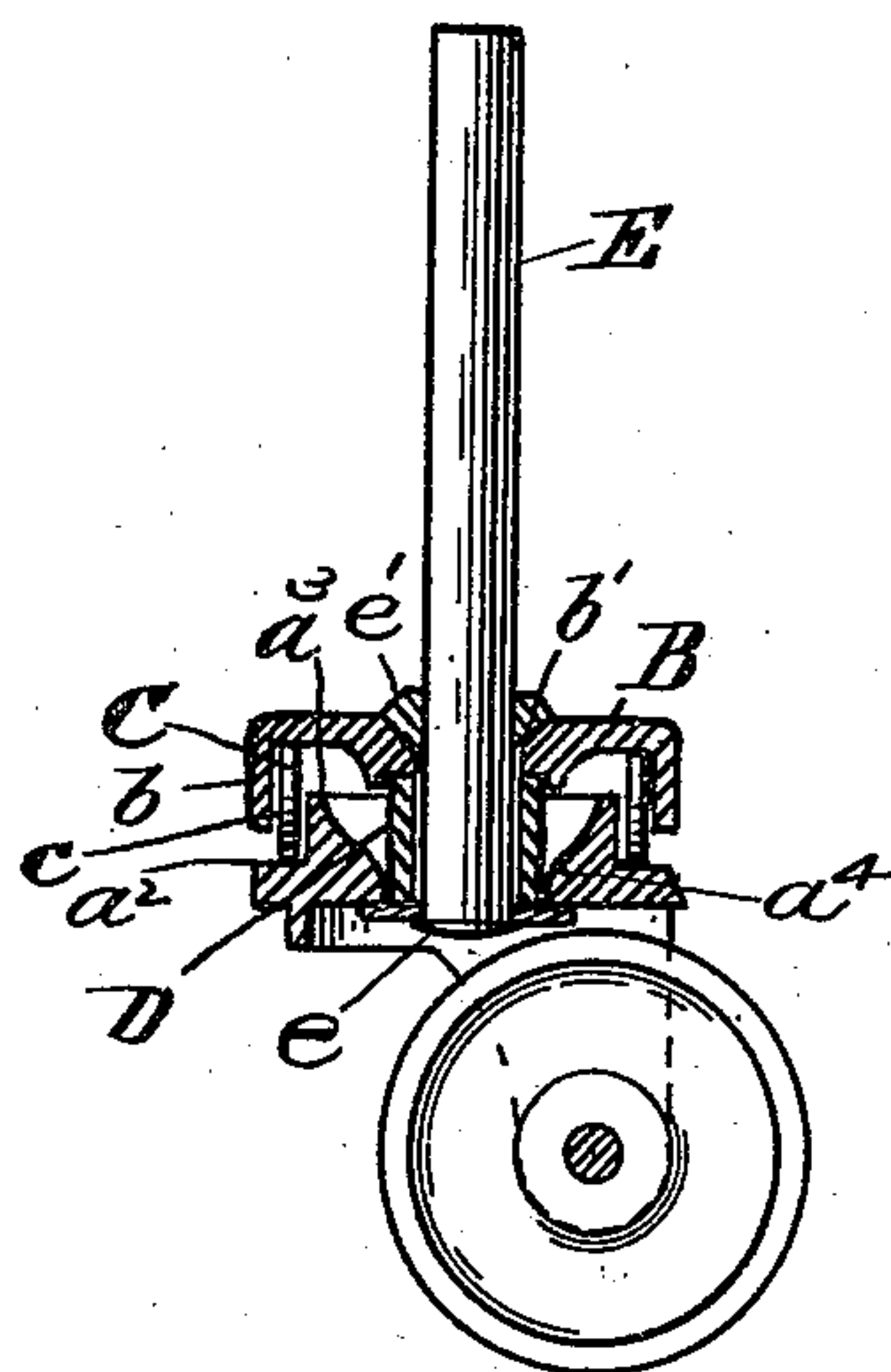


Fig. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES R. SUTLIFF, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE FOSTER,
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FURNITURE-CASTER.

SPECIFICATION forming part of Letters Patent No. 512,920, dated January 16, 1894.

Application filed June 12, 1893. Serial No. 477,280. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. SUTLIFF, a citizen of the United States, residing at Meriden, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Furniture - Casters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to a caster in which the horn supporting the caster roll is provided with an anti-friction connection with the remainder of the caster, and as against both vertical and lateral pressures upon it. This result is obtained by the construction represented in the accompanying drawings forming a part of this specification, and hereinafter explained.

In the drawings,—Figure 1 is a view in perspective of the parts of the caster which constitutes my invention. Fig. 2 is a view in elevation of the same, also showing the caster roll, and Fig. 3 is a view partly in elevation and partly in vertical section.

A represents the caster roll. It is carried, in the usual manner, by the horns a which depend from a circular plate a' . This plate has upon its upper surface the flat section a^2 surrounding a cylindrical section or wall a^3 ; and this wall, in turn, incloses or surrounds a large opening a^4 . The wall or cylindrical section a' is arranged to enter the cavity of an upper plate B, this upper plate having a wall b extending downwardly from its outer edge, a central hole b' and a flat bearing surface b^2 which surrounds the hole and is within the short wall b^3 . The wall a^3 is enough smaller in diameter than the wall b to provide an annular space c for holding anti-friction rolls C, the rolls bearing against the flat surface a^2 of the lower plate and the under sur-

face of the upper plate adjacent to the wall. This provides an anti-friction construction as against a downward or vertical strain or pressure. The friction of lateral pressure is decreased by means of a roll D which fits within the recess formed by the wall b^3 of the upper plate and projects into the hole a^4 of the lower plate, and this roll is held in position by the head e of the spindle E, or by a washer held against its lower end by the head of the spindle, the spindle passing through a hole in this vertical roll and through the hole b' in the upper plate; and the upper plate is secured in place upon the spindle by a flange e' formed integral with the spindle and fitting an enlarged section of the hole b' , or said flange may be separately formed and secured to the spindle to hold said plate in position thereon, in any desired way.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

The improved caster comprising the horn plate carrying the roll A and having the wall a^3 , flat section a^2 and central hole a^4 , the upper plate having the outer wall b , inner short wall b^3 and central opening b' tapering outwardly toward the upper surface of the plate, the rolls C loosely mounted on edge on flat section a^2 and between the walls a^3 and b , the spindle E having flange e' fitting the tapering portion of the opening b' , the roll D fitted on the spindle and extending into or through the hole a^4 of the lower plate, and a washer on the lower end of the spindle to retain the parts in position, the said spindle being headed to retain the washer in position, substantially as described.

JAMES R. SUTLIFF.

Witnesses:

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