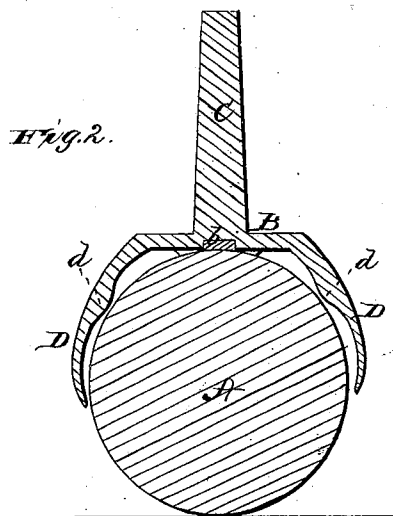
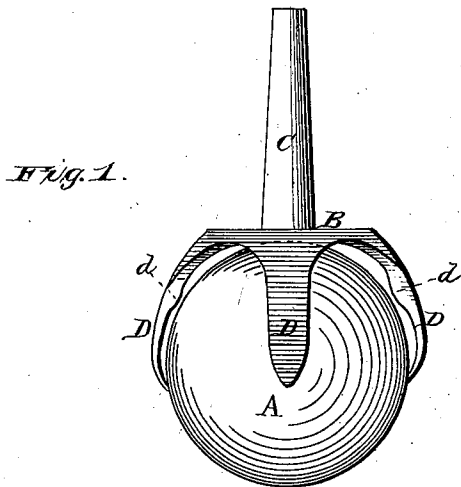


J. J. ADGATE.
Furniture Casters.

No. 201,976.

Patented April 2, 1878.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH J. ADGATE, OF NEW YORK, N. Y., ASSIGNOR TO CHARLES E. PARENT, OF SAME PLACE.

IMPROVEMENT IN FURNITURE-CASTERS.

Specification forming part of Letters Patent No. **201,976**, dated April 2, 1878; application filed December 18, 1877.

To all whom it may concern:

Be it known that I, JOS. J. ADGATE, of New York, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in Furniture-Casters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a furniture-caster, having a glass ball secured in a metallic holder, with four arms, each arm provided on the inner side with a projection to bear against the ball, and an ivory tip in the top of the holder to form the upper bearing for the ball, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of my improved furniture-caster. Fig. 2 is a central vertical section of the same.

A represents a glass ball, which may be made solid or otherwise, as desired, and of any suitable dimensions. This ball is contained within a metallic holder, composed of a top plate, B, with central stem C projecting upward from the same, and four downwardly-projecting curved arms, D D. These arms are so constructed as to extend below the center of the ball and prevent the ball from dropping out, while at the same time they will allow the ball to turn freely in any and every direction between them.

Each arm D is, on its inner face, formed or provided with a swell or projection, *d*, of solder or other soft metal, which is arranged at such

a point as to strike the ball at or about one-third the distance below the top of the ball. It will thus be seen that the ball is not in contact with the inner face of the arm; but as force is applied to move the caster in any direction the projection *d* on the arm behind the ball, striking the ball about one-third the distance from the top, causes, as it were, a leverage to turn the ball easily in the required direction.

In the center of the top plate B of the holder, on the under side, is inserted and fastened an ivory tip or point, *b*, which forms the top bearing for the ball, and causes the same to turn more freely and easily in any direction than it would if the ball were in immediate contact with the metal plate itself.

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

1. In a furniture-caster composed of the glass ball A and holder having the arms D, the swells or projections *d*, of solder or other soft metal, attached to the inner sides of the arms, substantially as and for the purposes herein set forth.

2. In a furniture-caster composed of a glass ball, A, and a metallic holder, an ivory tip or point, *b*, inserted in the holder for forming the top bearing for the ball, as herein set forth.

3. The combination of the ball A, plate B, with stem C and ivory tip *b*, and the arms D, with inner projections *d*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of December, 1877.

JOS. J. ADGATE.

Witnesses:

FRANK GALT,
J. J. MCCARTHY.