

M. S. Brownell.

Caster.

N^o 89,628.

Patented May 4, 1869.

Fig. 1.

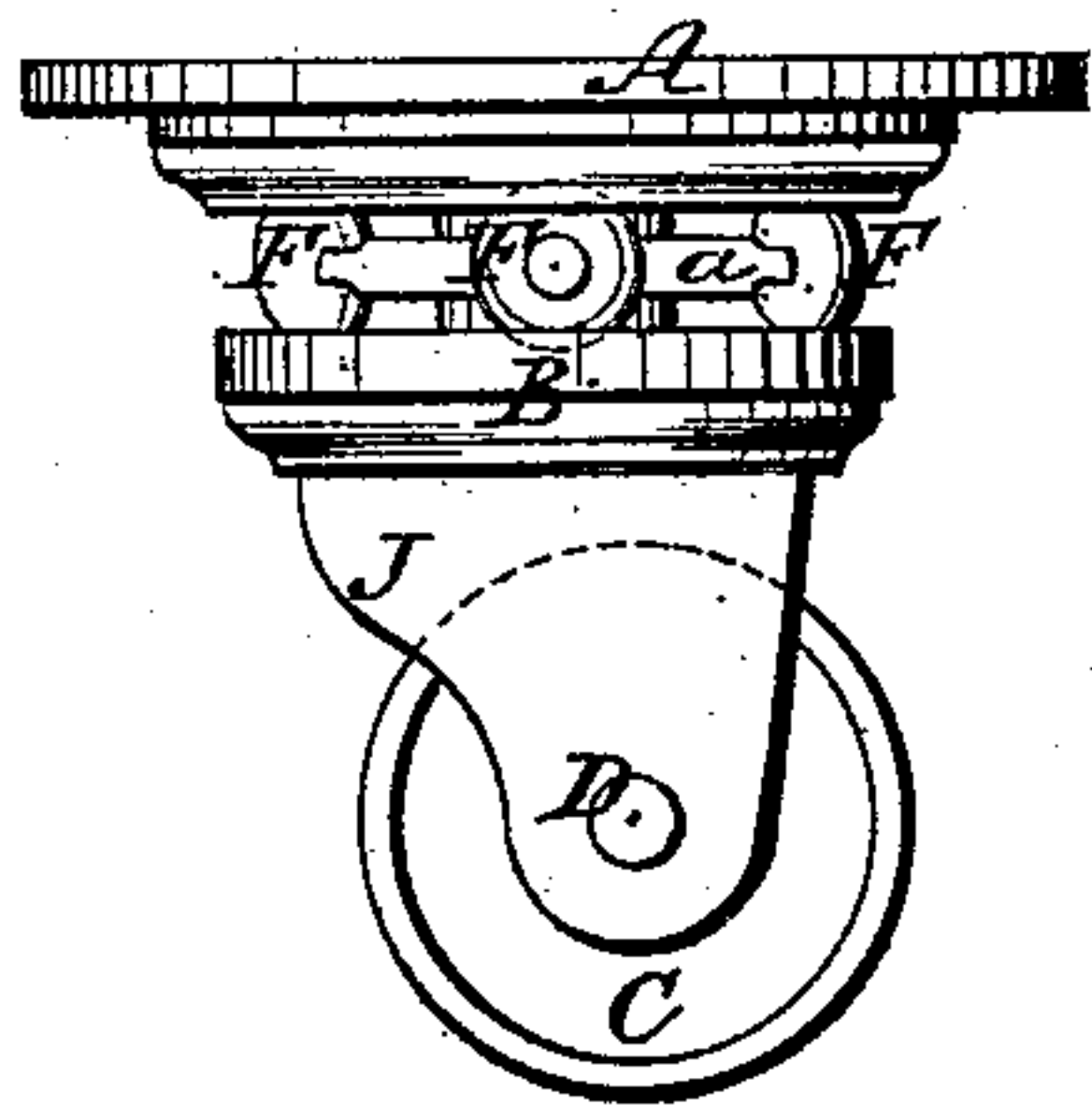


Fig. 5.

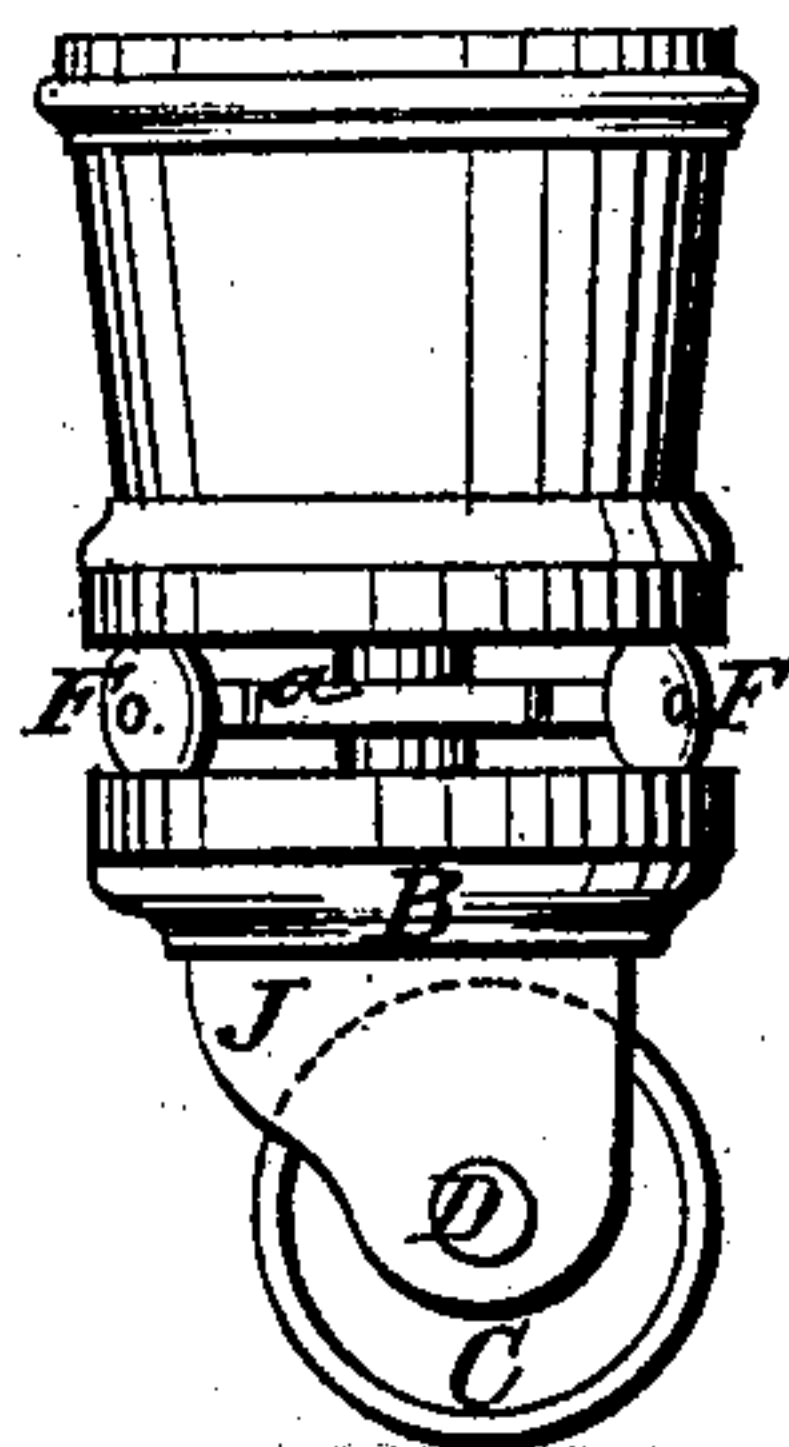


Fig. 2.

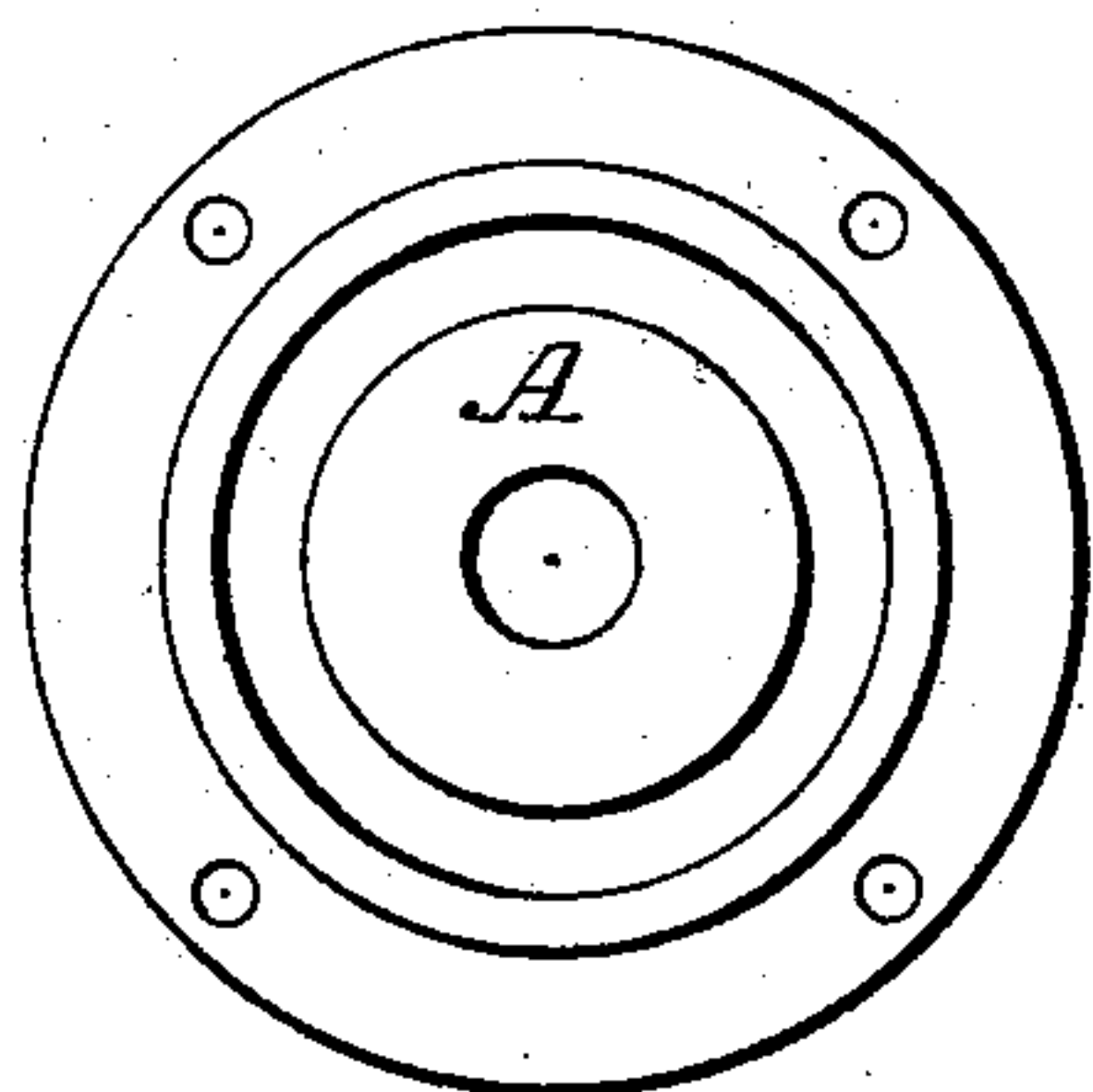


Fig. 4.

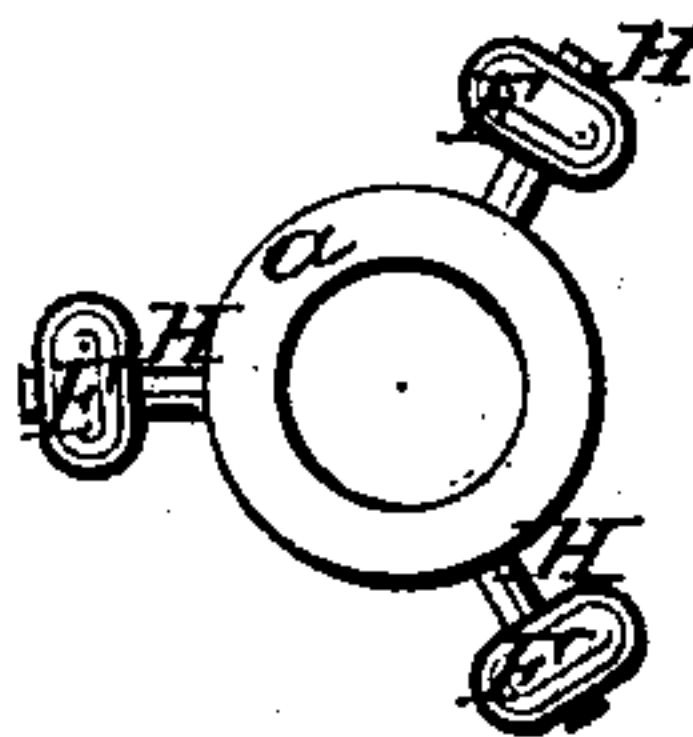


Fig. 3.

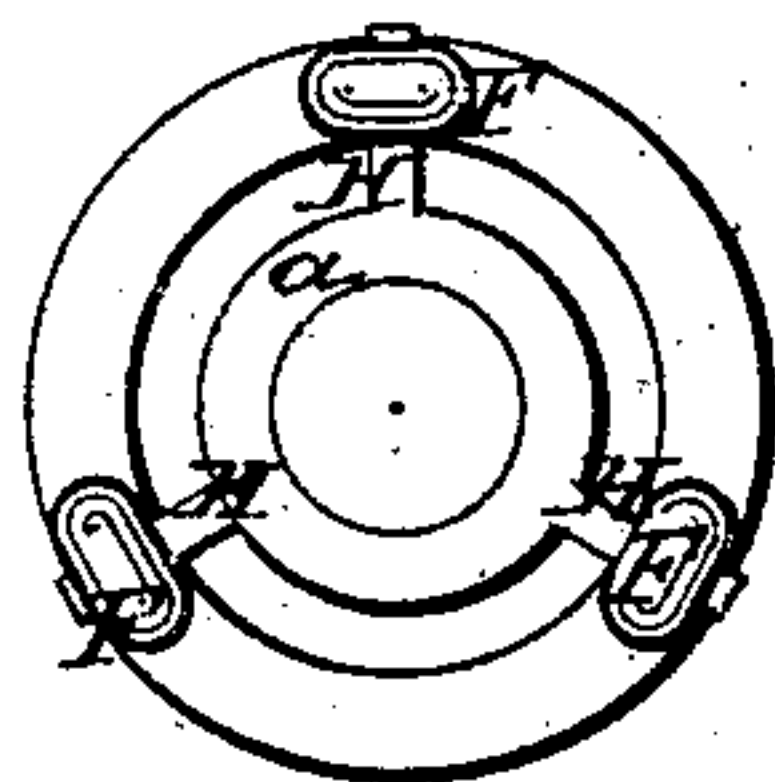


Fig. 6.



Witnesses

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MYRON S. BROWNELL, OF ADRIAN, MICHIGAN.

Letters Patent No. 89,628, dated May 4, 1869.

IMPROVEMENT IN CASTER.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, MYRON S. BROWNELL, of Adrian, in the county of Lenawee, and State of Michigan, have invented a new and useful Improvement in Revolving, or Turn-Table Casters; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

Figure 1 is a side elevation of a plate-caster.

Figure 2 is a bottom view of the top plate.

Figure 3 is a top view of the bottom plate, showing the travelling wheels, or balls.

Figure 4 is a view of the traverse, and wheels, or balls.

Figure 5 is a front elevation of a socket-caster, with the travelling frame and its attachments.

Figure 6 is a view of the screw, or rivet, which connects figs. 2 and 4.

Like letters indicate like parts in each figure.

The nature of this invention relates to an improvement in casters for furniture and movable effects; and consists in the construction of a caster, having a traversing frame, with balls, or wheels inserted between the upper and lower plates, to enable the wheel of the caster to be moved in any direction.

A, in the drawings, represents the upper plate of the caster, and is provided with proper screw-holes, by means of which, and proper screws, or their equivalent, the same may be secured to the leg, or post of a bedstead, or any other article.

The plate is also provided with a central hole, through which passes the screw or rivet I, shown in fig. 6.

B is the lower plate, having shoulders J, and between them the wheel C turns on its axis D.

Between the plates A and B, is placed the traversing frame *a*, in fig. 4, which revolves on the axis of the screw, or rivet I.

This traversing frame has three or more journals, H, extending at right angles to its diameter; and on these journals are placed the revolving balls, or wheels

F, which carry the whole weight of the article to which the caster is applied.

The lower plate has a groove, E, in which the balls, or wheels F travel.

The operation of the caster is as follows:

The plate A, or socket, shown in fig. 5, is fixed to the article. On pushing this article in any direction, the wheel will take the same direction, such direction being attained by the lower plate revolving on the centre-pin I.

In revolving, the traversing frame and wheels are moved in the same direction, thereby doing away with the friction which would otherwise result from the movement.

Casters, constructed as above described, avoid the side-friction which occurs in those in common use, and permit the wheel being placed almost directly under the point on which the weight rests, such point being always within the circular groove in which the balls, or wheels travel, so that the article which the casters support may be easily and readily moved with little noise and friction.

The wheel being so near the point on which the weight of the article rests, this caster is peculiarly adapted to many articles, such as iron safes, which generally are supported on wheels having no lateral rotary motion.

All parts of this caster may, after casting, be finished, or polished in a "rattler," without the use of a lathe, thereby making its cost to manufacture very little, if any, more than those in common use.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a caster, of substantially the described construction, the traversing frame *a*, provided with journals H, and friction-wheels F, when arranged to revolve upon pin I, in the manner and for the purpose described.

MYRON S. BROWNELL.

Witnesses:

H. F. EBERTS,

JAS. I. DAY.