

(Model.)

M. B. SCHENCK.

CASTER.

No. 381,173.

Patented Apr. 17, 1888.

FIG. I.

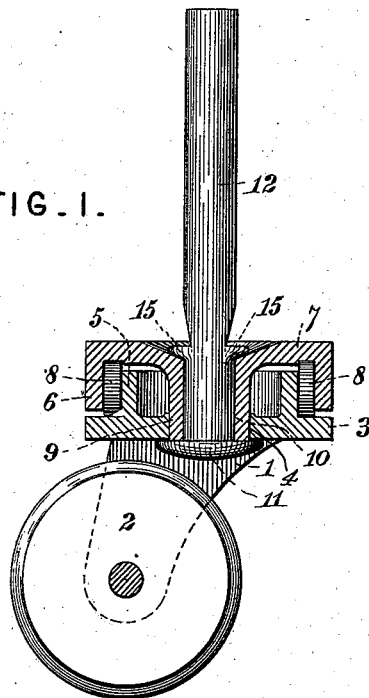
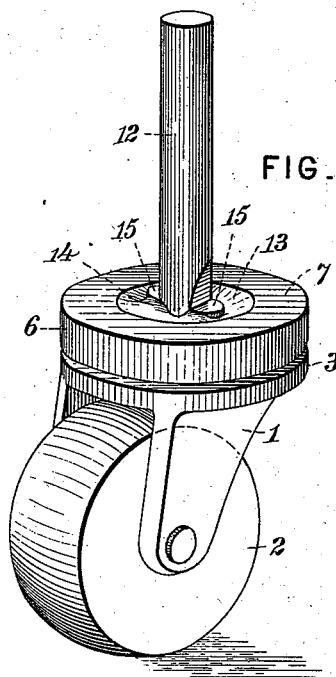


FIG. II.



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# UNITED STATES PATENT OFFICE.

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## CASTER.

SPECIFICATION forming part of Letters Patent No. 381,173, dated April 17, 1888.

Application filed September 3, 1887. Serial No. 248,729. (Model.)

*To all whom it may concern:*

Be it known that I, MARTIN B. SCHENCK, a citizen of the United States, residing at Meriden, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Casters, of which the following is a specification.

My invention consists of a wheel-housing the roller-plate of which is provided with an upwardly-projecting annular flange situated at a distance from the rim of the plate, between which flange and a downwardly-projecting annular flange on the base-plate the rollers are situated. The base-plate has an axial boss provided with a perforation that extends through said plate. The boss is elongated and passes through an axial perforation in the housing-plate, and projects so far beyond said plate that the spindle-head will not touch the housing-plate when fastened to the base-plate, thus preventing the binding of the wheels, as the spindle-head bears only on the end of said boss.

In order that my invention may be fully understood, I will proceed to describe the same, with reference to the accompanying drawings, in which—

Figure I is a vertical sectional view of a caster embodying my improvements. Fig. II is a perspective view.

Referring to said drawings, 1 represents the floor-wheel housing, carrying wheel or roller 2, the plate 3 of said housing having an axial perforation, 4. Projecting upwardly and situated at a suitable distance from the rim of the housing or roller plate 3 is an annular flange, 5, between which and a downwardly-projecting annular flange, 6, on the base-plate 7 are situated the anti-friction rollers 8, said flanges being concentric. These flanges 5 and 6 prevent dust or other obstruction getting in under the rollers. What little dust might rest on the rim of the housing-plate exposed is worked off by the operation of the rollers in the movement of the caster.

An axial elongated boss, 9, on the under side of base-plate 7, having a perforation, 10, which extends through the base-plate, is received by the perforation 4 in the housing-plate and extends a slight distance beyond the same. As said boss extends beyond the housing-plate, the head 11 of spindle 12, when fastened to the base-plate, may be brought down

firmly upon it, and yet not draw down on the anti-friction rollers, binding them together, so they cannot operate.

Surrounding the perforation 10 in the base-plate is a depression, 13. In said depression and contiguous to the perforation are small lugs 14, between which are situated the side projections or hammered portions, 15, of spindle 12, whereby the latter is secured to the base-plate and is prevented from turning therein.

The base-plate, the flange, and boss are preferably cast in one piece.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In a caster, the combination, with the housing-plate having an axial perforation and an upwardly-projecting annular flange thereon, of a circular base-plate having an elongated perforated boss, the perforation of which extends through the base-plate, a peripheral flange projecting downwardly from said base-plate and adapted to surround the annular flange on the housing-plate and having a space between them for the anti-friction rollers, and a headed spindle secured to the base-plate and passing through said perforated boss, its head being adapted to bear on the end of said boss, substantially as set forth.

2. In a caster, the combination, with a base-plate having an elongated perforated boss, the perforation extending through the base-plate, of the floor-wheel housing having an axial perforation, a spindle secured to the base-plate and passing through said perforated boss, and a head on said spindle, adapted to engage the end of said boss out of contact with the housing, substantially as set forth.

3. In a caster, the combination, with the housing-plate provided with an axial perforation, of the base-plate, also provided with an axial perforation, a headed spindle received by said perforation, lugs on top of the base-plate surrounding its perforation, and side projections on the spindle situated between said lugs, substantially as and for the purpose set forth.

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Witnesses:

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