

B. M. WILKERSON.
 OASTER.
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984,457.

Patented Feb. 14, 1911.

Fig. 1

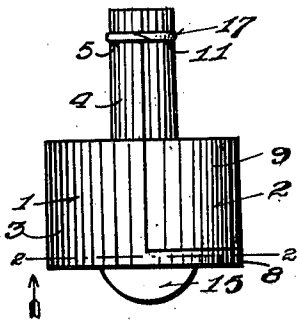


Fig. 3

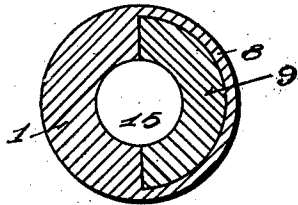
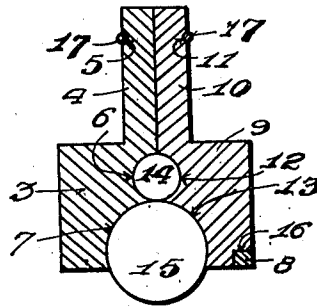


Fig. 2

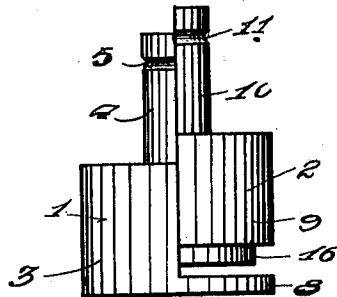


Fig. 4

Witnesses

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CASTER.

984,457.

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To all whom it may concern:

Be it known that I, BERRA M. WILKERSON, a citizen of the United States, residing at Roswell, in the county of Chaves and Territory of New Mexico, have invented a new and useful Caster, of which the following is the specification.

This invention relates to casters and the principal object of the same is to provide a novel body and supporting rollers therefor which can be readily attached to an article of furniture and in which the roller is so arranged that the caster can be freely moved in any direction.

With the above and other objects in view the invention contemplates forming the caster of a sectional body, the sections thereof being complementary so that they can be readily assembled and each section recessed to provide chambers for an anti-friction bearing and a roller when the sections are assembled.

In carrying out the objects of the invention generally stated above it will be understood, of course, that the essential features thereof, are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure 1 is a view in elevation of the improved caster. Fig. 2 is a horizontal sectional view of the same taken on the line 2—2, Fig. 1, viewed in the direction of the arrow. Fig. 3 is a central vertical sectional view. Fig. 4 is a view in elevation, showing the sections partly separated.

Referring to the accompanying drawings by numerals, it will be seen that the improved caster is composed of two complementary sections 1 and 2. Section 1 is provided with an enlarged body 3 from the upper portion of which a shank member 4 projects, said shank member is provided adjacent the upper end with a holding groove 5. Said body and shank are preferably integral and each being semi-cylindrical in contour so that they present a continuous flat surface at one side. At the center of the said flat surface, the body 3 is provided with an upper semi-spherical recess 6 and beneath the same the bottom of the body and a portion of said flat surface are cut away to provide an enlarged recess 7 that communicates with the smaller recess 6. At

the lower portion of the flat surface of body 1, a semi-circular flange 8 projects laterally therefrom and forms a seat for the base of the section 2.

Section 2 is provided with a body 9 and shank member 10 which are complementary to the similar parts of section 1. The shank member 10 is provided with an upper groove 11 that is a continuation of the similar groove of shank member 4 of section 1 when sections 1 and 2 are assembled. Said section 2 is provided with an upper recess 12 and a lower recess 13 in its flat surface, and said recesses form with the similar recess of section 1 an upper chamber for the anti-friction bearing 14 and a lower chamber for the supporting roller 15. Said roller 15 is preferably a ball of hardened steel and projects beyond the base of the sectional body of the caster and is in anti-frictional contact with the bearing 14. The bottom of the section 2 at the outer edge thereof is provided with a groove 16 which receives the flange 8 of section 1 when the two sections are assembled to hold the lower portions of the sections in close contact.

A split resilient ring 17 is fitted over the shank members of the two sections 1 and 2 and seated in the grooves therein to hold the upper portions of the sections in close contact.

With this invention it will be seen that the sections can be readily separated by removing the ring 17 from the shank members and lifting section 2 from the flange of section 1. The separation of the sections releases the bearing and the roller, so that a new bearing and roller can be provided when necessary or desirable. It will also be seen that by using a ball roller, the caster can be freely moved in any direction.

What I claim as my invention is:—

1. A caster comprising a sectional body, each section provided with a shank member and being complementally recessed to provide an upper bearing chamber and a lower roller chamber, one section provided with a grooved bottom, the other section provided with a flange for engaging said grooved bottom, an anti-friction bearing for the bearing chamber, a roller for the roller chamber, and means for fastening the shank members together.

2. A caster comprising a body formed of two complementary sections, one section pro-

vided with a laterally projecting base flange, the other section provided with a groove for the reception of said flange, a roller carried by said body, and means for detachably connecting the upper portions of said sections.

5 3. A caster comprising a sectional body, one section provided with a base groove, means carried by the other section for engaging said groove to hold the lower portions of said sections together, means for detachably connecting the upper portions of
10 said sections, and a roller held between the lower portions of said sections.

4. A caster comprising a pair of complementary sections provided with a body and a shank member, said shank members provided with grooves, a split spring ring engaging said grooves to hold said shank members together, means for holding the said bodies together, and a roller held between said bodies.

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Witnesses:

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