

W. F. HEROLD.
 CASTER FOR CYLINDRICAL RAIL FURNITURE.
 APPLICATION FILED JUNE 8, 1921.

1,436,802.

Patented Nov. 28, 1922.

Fig. 1,

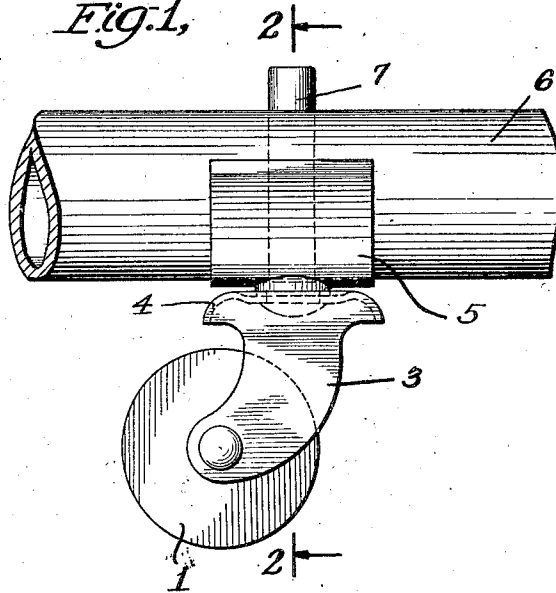


Fig. 2,

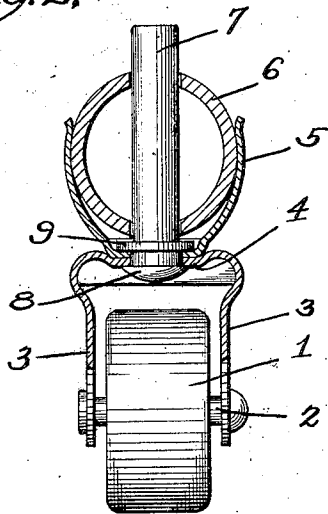
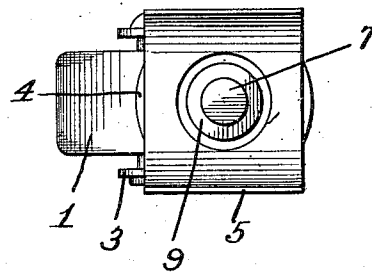


Fig. 3,



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UNITED STATES PATENT OFFICE.

WALTER F. HEROLD, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE BASSICK COMPANY,
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CASTER FOR CYLINDRICAL RAIL FURNITURE.

Application filed June 8, 1921. Serial No. 475,936.

To all whom it may concern:

Be it known that I, WALTER F. HEROLD, a citizen of the United States, and resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Casters for Cylindrical Rail Furniture, of which the following is a specification.

The invention relates to casters for cylindrical rail furniture by which term reference is made to articles of furniture such for example as couches, in which rails or elements of cylindrical or tubular form extend along the bottom thereof. The present invention is intended to provide casters which may readily be attached to and detached from such cylindrical rails, and which may be constructed in a simple and effective manner. In carrying out the invention a U-shaped spring member is secured to the top surface of the horn of the caster, this member being adapted to engage resiliently about the rail of the article to be supported. A pin is also provided to extend upwardly from the top surface of the horn so as to enter and pass through a vertical opening provided therefor in the rail. With this arrangement the caster may readily be clamped in position beneath the rail and readily detached when desired.

The object of the invention is the provision of an improved and effective caster construction of the character referred to. In order that the invention may be more clearly understood, attention is hereby directed to the accompanying drawings forming part of this application, and illustrating one embodiment of the invention. In the drawings,

Fig. 1 represents a side elevation of a caster construction embodying the invention secured to a tubular rail forming part of a couch, or other article of furniture;

Fig. 2 is a vertical section taken on line 2—2 of Fig. 1, and

Fig. 3 is a top plan view of the caster removed from the furniture rail.

Referring to the drawings, the caster comprises a wheel, or other supporting element, 1, which is illustrated as being mounted for rotation on an axle 2, which extends between the side arms 3, 3, of a horn having a top transverse portion 4.

A spring member 5, preferably formed of resilient sheet metal, such as steel, extends

upwardly from the top surface of the transverse portion 4 of the horn, this spring member being fixedly secured to the horn, and adapted to extend around a tubular rail 6, which may be an element of a couch or other article to be supported.

A vertical pin 7 also extends upwardly from the top portion 4 of the horn and is adapted to pass through vertical openings formed at the top and the bottom of the rail 6. Pin 7 is preferably secured in position by passing the same upwardly through openings in the top portion 4 of the horn and the bottom portion of the spring frame 5 placed thereon, the pin being provided with a head 8 at its lower end, this head being adapted to engage against the end surface of the top 4 of the horn.

A washer 9 may be mounted on pin 7 and secured in position immediately above the bottom portion of the spring member 5 so as to hold both the spring member and the pin fixedly in position.

With this construction it is only necessary to insert the top of the pin into the bottom opening in the rail 6 and push the caster construction upwardly whereupon the pin will pass through the upper opening in the rail and the spring member will engage about the rail. The spring member should extend somewhat above the axis or horizontal central plane of the rail so as to firmly grip the same and pin 7 should preferably extend into or through the upper opening of the rail, in case the rail is of tubular section, as shown.

The construction is particularly intended for use in connection with rails of tubular or other cylindrical form, but it may, of course, be used in connection with rails having an angular form.

What I claim is:

1. In a caster, the combination of a horn for a caster wheel and a U-shaped member of spring metal secured fixedly to the top transverse portion of the horn, the two arms thereof being adapted to resiliently engage about a horizontally extending cylindrical element of the article to be supported.

2. In a caster, the combination of a horn for a caster wheel, a U-shaped spring member secured fixedly to the top of the horn, adapted to resiliently engage about a horizontally extending element of the article to be supported and a pin extending upwardly

from the top of the horn, adapted to enter an opening in the horizontally extending element.

3. In a caster, the combination of a horn
5 for a caster wheel, a sheet-metal spring member of U-shape extending upwardly from the top of the horn, adapted to resiliently engage about a horizontally extending element of the article to be sup-

ported, and a pin extending upwardly from 10 the top of the horn, through an opening in the bottom portion of said spring member, said pin having a shoulder adapted to hold said spring member in place.

Signed at Bridgeport, in the county of 15 Fairfield and State of Conn., this 6 day of June A. D. 1921.

WALTER F. HEROLD.