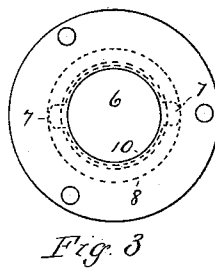
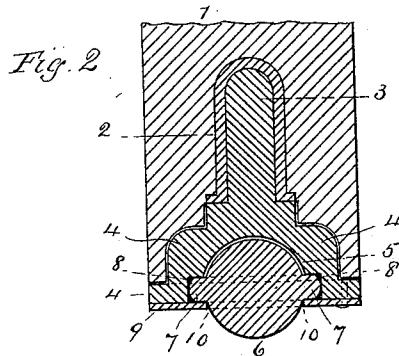
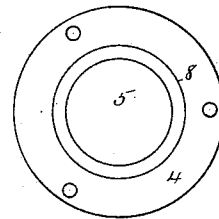
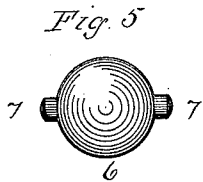
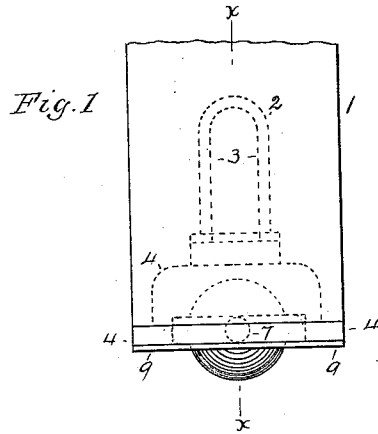


(No Model.)

F. H. ROEDELL.
CASTER.

No. 428,143.

Patented May 20, 1890.



Witnesses

E. M. Schumann
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Inventor

Frederick H. Roeddell

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UNITED STATES PATENT OFFICE.

FREDERICK H. ROEDEL, OF MINNEAPOLIS, MINNESOTA.

CASTER.

SPECIFICATION forming part of Letters Patent No. 428,143, dated May 20, 1890.

Application filed September 9, 1889. Serial No. 323,430. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. ROEDEL, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Casters, of which the following is a specification.

My invention relates to furniture-casters; and it consists in the devices hereinafter fully described, and particularly pointed out in the claim.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 represents the lower portion of the leg of an article of furniture provided with the improvements; Fig. 2, a central longitudinal section on the line *xx* of Fig. 1; Fig. 3, a view of Fig. 1 inverted, and Figs. 4 and 5 details.

1 in said drawings designates a leg of a table or other article, and 2 the socket therein for receiving the spindle 3 of the caster. The spindle 3 is formed on a widened base 4, that is loosely fitted on the end of the leg, so as to permit rotation of the spindle in the socket. In the base 4 is a concave socket 5, in which is placed a ball 6 on trunnions 7. The ball 6 may be either fixed to the trunnions, so as

to rotate with them, or the trunnions may constitute the ends of a loose shaft, on which the ball may rotate. 8 is a circular way for the trunnions, and 9 is a cap-plate, having a circular opening 10, through which the ball projects, and which is adapted to hold the ball and trunnions in place. By this construction and arrangement the caster when in use will be permitted rotary motion on its spindle 3, and at the same time the ball may rotate on its axis and the trunnions revolve in the circular groove 8. All of the parts are thus adapted to accommodate themselves to the direction of movement.

Having described my invention, what I claim is—

In a caster, in combination, a spindle and a socket therefor permitting spindle rotations, the spindle being provided with a base having a concave socket and a circular groove, and a ball in the latter socket having trunnions adapted to rotate and revolve in said groove, substantially as set forth.

FREDERICK H. ROEDEL.

Witnesses:

E. M. SCHUMANN,
P. H. GUNCKEL.