

(No Model.)

H. H. McELHINEY.
CASTER.

No. 485,706.

Patented Nov. 8, 1892.

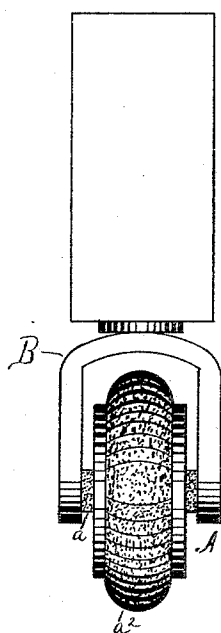


Fig. 1.

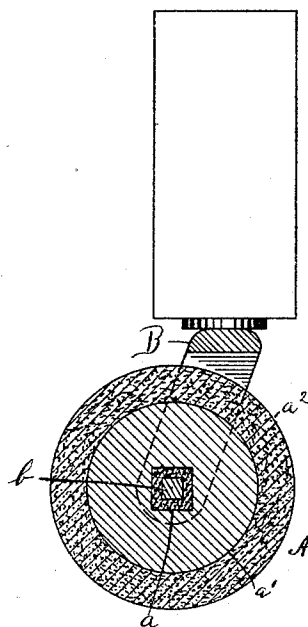


Fig. 2.

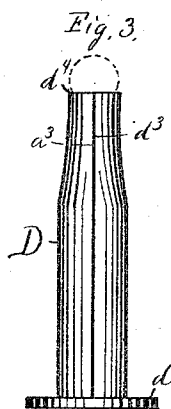


Fig. 3.

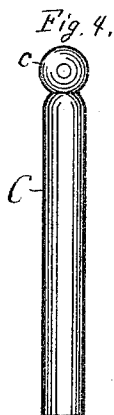


Fig. 4.

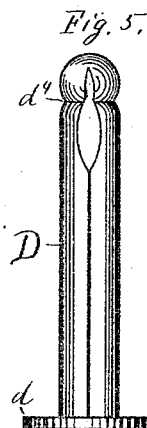


Fig. 5.

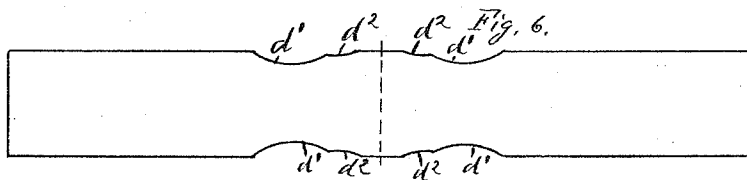


Fig. 6.

Witnesses
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UNITED STATES PATENT OFFICE.

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CASTER.

SPECIFICATION forming part of Letters Patent No. 485,706, dated November 8, 1892.

Application filed July 25, 1891. Renewed August 9, 1892. Serial No. 442,544. (No model.)

To all whom it may concern:

Be it known that I, HARRISON H. McELHINEY, a citizen of the United States, residing at Nebraska City, in the county of Otoe and State of Nebraska, have invented certain new and useful Improvements in Insulated Casters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to insulated casters; and it consists in the novel construction and arrangement of its parts.

In the accompanying drawings, Figure 1 is a front view of my invention. Fig. 2 is a sectional view of my caster, and Figs. 3, 4, 5, and 6 are detail views.

My invention is described as follows: It consists of the roller A and the shank B, in the arms of which the axle *b* is journaled. Said axle *b* is square between the arms of the shank B, and around said axle is placed the rubber packing *a* or other non-conducting substance. The solid part *a'* of the roller is made of wood, iron, glass, or other hard material and has secured around its periphery the rubber or other insulating-tire *a²*, and said part has a square perforation at its center, through which passes the axle *b* and packing *a*. The shaft C of the shank B has on its upper end the globular head *c*, which is adapted to catch in the upper end of the sleeve D, which is secured in any suitable manner in the leg of the article of furniture, and thus the caster is held in the leg when the piece of furniture is raised. The sleeve D may be open at the top, as shown in Fig. 3, or it may be closed, as shown in Fig. 5. The sleeve

shown in Fig. 5 is made of a single piece, having recesses *d'* *d²* (see Fig. 6) to allow for the spring of the metal, so that the globular head may pass through the narrow part *d⁴* of the said sleeve. The piece shown in Fig. 6 is folded in the middle at the dotted line and the body bulged out and the lower ends soldered in the annulus *d*. The sleeve when made as described in Fig. 3 has its upper end *d¹* compressed, so that the opening is smaller than at its lower end; but the edges *d³* at its upper end are not soldered or otherwise united, so that they may spring apart and allow the globular head of the shaft C to pass through the upper end of the said sleeve. The packing *a* around the axle extends out on either side of the roller and touches the arms of the shank B, and thus keeps the solid part of the roller from touching said arms.

The object of my invention is to provide beds, chairs, &c., with a caster that will not drop out and which is doubly insulated by the rubber or other insulating-tire *a²* and the packing *a*, and at the same time the tire will make a noiseless roller and one which will not mar the polished surface of the floor.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of a solid wheel *a'*, the perforated insulating-packing *a*, passing through said wheel and extending beyond each side of the same, axle *b*, passing through the arms of the shank B, and shank B, having the shaft C, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

HARRISON H. McELHINEY.

Witnesses:

JOHN W. DIXON,
FRANK P. IRELAND.