(No Model.)

G. E. NEUBERTH.

CASTER.

No. 589,850. Patented Sept. 14, 1897.

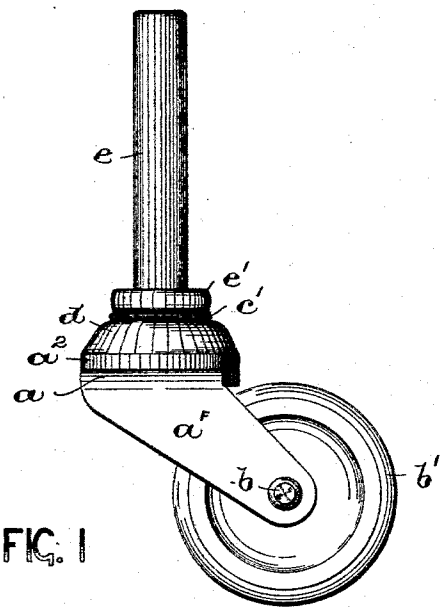


FIG. 1

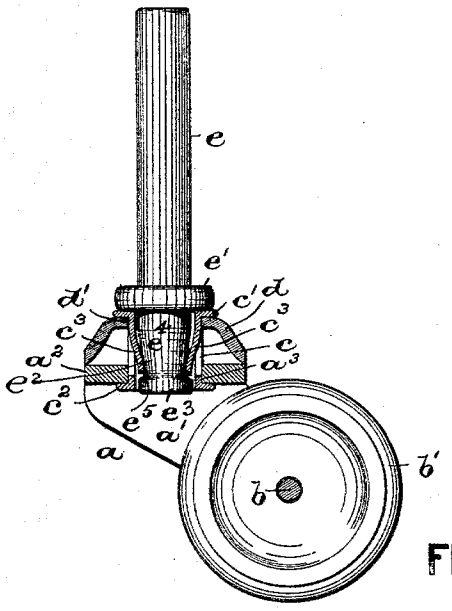


FIG. 2



FIG. 3

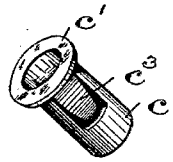


FIG. 4

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UNITED STATES PATENT OFFICE.

GEORGE E. NEUBERTH, OF NEWARK, NEW JERSEY, ASSIGNOR TO HENRY ILL, OF SAME PLACE.

CASTER.

SPECIFICATION forming part of Letters Patent No. 589,850, dated September 14, 1897.

Original application filed January 15, 1897, Serial No. 619,279. Divided and this application filed August 2, 1897. Serial No. 646,750. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. NEUBERTH, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Casters; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

This application relates to improvements in casters for furniture, and is a division of my previous application for improvements in casters, filed January 15, 1897, Serial No. 619,279.

My present invention has for its primary object to provide, in addition to the construction of caster set forth in said hereinabovementioned application, a form of caster having in its bearing or sleeve suitable holding-tongues which extend inwardly and fit into a suitable offset in the pintle, whereby the pintle and the sleeve still have a rotative motion, but said tongues cause the retention of the caster-frame upon the pintle when the caster is held in its raised position by said pintle.

The invention therefore consists in the novel arrangements and combinations of the several parts, to be hereinafter more fully described, and finally embodied in the clauses of the claim.

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

Figure 1 is a side view of the caster, and Fig. 2 is a vertical cross-section of the same. Fig. 3 is a perspective view of a cup-plate, and Fig. 4 a similar view of a tubular bearing or sleeve provided with inwardly-projecting spring-tongues.

Similar letters of reference are employed in said above-described views to indicate corresponding parts.

In said drawings, a indicates the usual form of caster-frame provided with a pair of downwardly-extending brackets or horns a', perforated at or near their lower ends to receive a pin b, on which is rotatively arranged the usual form of roller b', as clearly indicated in Figs. 1 and 2 of the drawings. Said horns a' are connected by the top plate a^2, which is provided with the central perforation a^3, in which I arrange a sleeve or tubular bearing c. Said sleeve is made of sheet metal and is provided at the top with a flange c'. As clearly illustrated in Fig. 2 of the drawings, the body portion of said sleeve c is passed through a central opening d' in a cup-shaped plate d, and said body portion of said sleeve is also inserted in the opening a^3 in the top plate a^2 of the caster-frame and the annular edges of said body portion of the sleeve then bent over against the under surface of the plate a^2 to form a holding-bead c^2. In this manner said sleeve or bearing c and the supporting cup-shaped plate d are firmly secured directly upon the top of said plate a^2 of the caster-frame, resulting in an increased bearing-surface for the portion e^2 of the pintle e, which is rotatively arranged in said bearing or sleeve c by having a collar e' on said pintle e resting on the annular flange or bead c' of the sleeve c and having its lower edge suitably clenched to form the holding-bead e^3, whereby said pintle is operatively and rotatively connected with the caster-frame, as clearly illustrated in said Fig. 2.

In order that the caster-frame may be operatively retained in position on the portion e^2 of the pintle when the caster is held in its raised position by said pintle, the sleeve or bearing c is provided with suitable holding-tongues c^3, which are struck up in the metal from which said sleeve is made and extend inwardly, as indicated in Figs. 2 and 4. As shown in Fig. 2, the portion e^2 of the pintle e is conical, as at e^4, and is formed with an annular offset or groove e^5, against which the free ends of said tongues c^3 on the sleeve c extend and thus cause the retention of the caster-frame in its operative position on the portion e^2 of the pintle when the caster is held in its raised position by the pintle. Said offset e^5 may be slightly rounded or curved, as

shown, to permit the separation of the caster-frame and its parts from the pintle when a pull is exerted upon the same.

Having thus described my invention, what I claim is—

1. In a caster, the combination, with the caster-frame having a perforated top plate, a cup-shaped plate d on said top plate having an opening d', a sleeve or bearing c in said openings in said top plate of the caster-frame and said plate d, holding-tongues on said bearing or sleeve c, and a pintle rotatively arranged in said sleeve, substantially as and for the purposes set forth.

2. In a caster, the combination, with the caster-frame having a perforated top plate, a cup-shaped plate d on said top plate having an opening d', a sleeve or bearing c in said openings in said top plate of the caster-frame and said plate d, holding-tongues on said bearing or sleeve c, said sleeve or bearing having annular beads c' and c^2 for securing the several parts together, and a pintle rotatively arranged in the sleeve or bearing, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 30th day of July, 1897.

GEORGE E. NEUBERTH.

Witnesses:

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