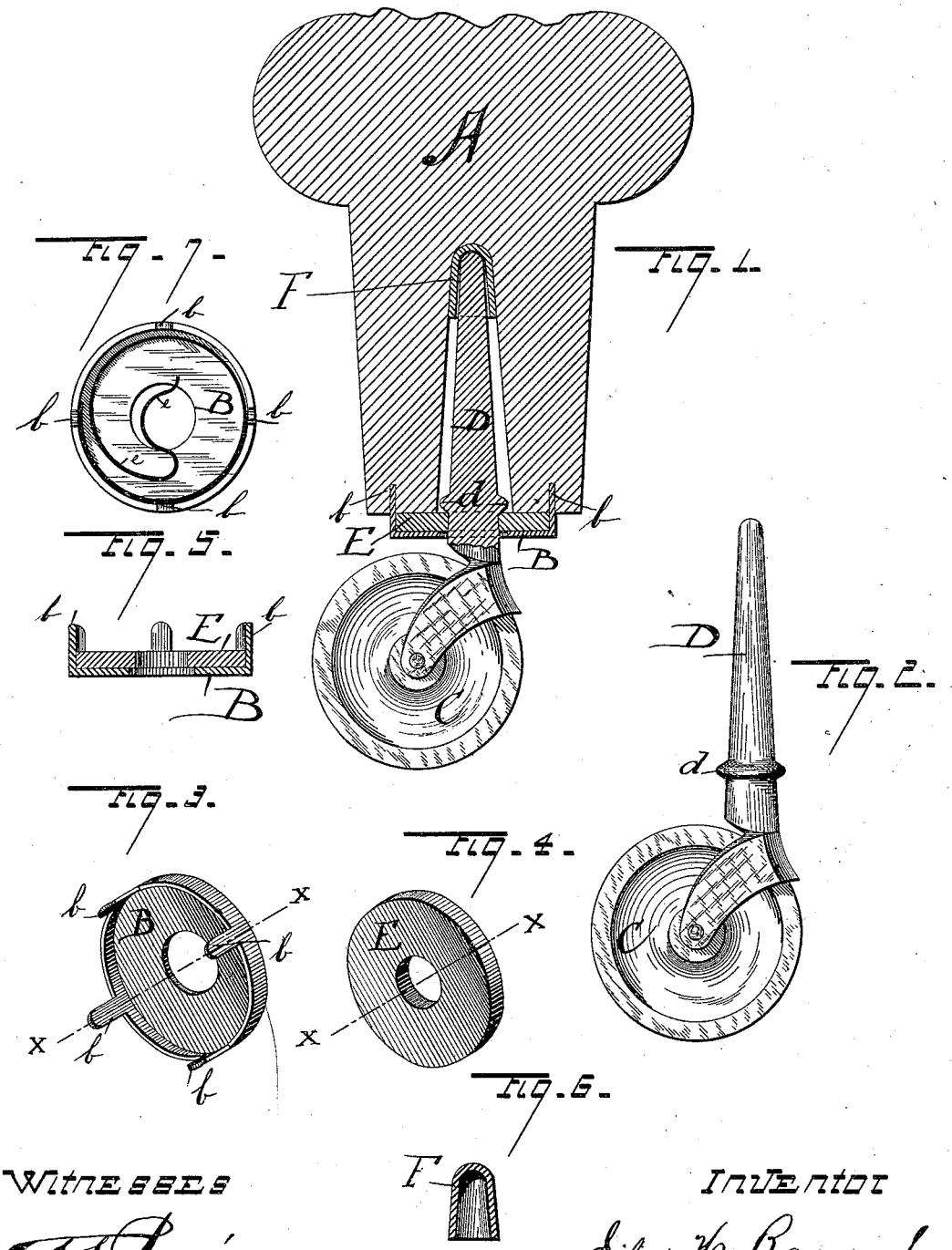
(No Model.)

S. H. RAYMOND.

FURNITURE CASTER.

No. 342,930. Patented June 1, 1886.



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SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO EDWIN DOTY, OF CHICAGO, ILLINOIS.

FURNITURE-CASTER.

SPECIFICATION forming part of Letters Patent No. 342,930, dated June 1, 1886.

Application filed March 15, 1886. Serial No. 195,304. (No model.)

To all whom it may concern:

Be it known that I, SILAS H. RAYMOND, a citizen of the United States, residing at Grand Rapids, Kent county, Michigan, have invented a new and useful Improvement in Furniture-Casters, of which the following is a specification.

The object of my invention is to provide a simple and economical caster for chairs, tables, bedsteads, and other articles of household furniture; and the invention consists in the novel features of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a vertical sectional view of the lower part of the leg of a piece of furniture with my improved caster applied thereto; Fig. 2, an elevation of the caster detached, particularly intended to show the rim or flange thereof near its juncture with the arms; Fig. 3, a perspective view of the metallic disk forming the smooth surface or track of the leg when the caster is removed; Fig. 4, a perspective view of the rubber disk intended to fit and be held within the rim of the metallic track-disk; Fig. 5, a view in cross-section of the matallic and rubber disks together, taken in line *x x* of Figs. 3 and 4, and Fig. 6 a vertical section of the thimble fitting over the upper end of the caster-pintle. Fig. 7 illustrates a modification in which a metallic spring is used in place of the rubber disk.

A is the lower part of the leg of a piece of furniture; B, the metallic track, and *b* tacks or projections integral therewith for securing it to the leg; C, the caster-wheel; D, the caster-pintle, and *d* the flange or rim encircling the same near the wheel-arms; E, the rubber disk, and *e* the metallic spring which sometimes takes its place, and F the thimble.

In constructing my improved caster I provide the pintle with a rim or flange encircling it near its lower end or point of juncture with the arms to which the wheel is attached, this pintle to be passed through metallic and rubber disks secured to the bottom of the leg, as hereinafter described.

The metallic disk is provided with projections operating as tacks, which may be forced or driven into the wood at the bottom of the leg, so as to secure it thereto. Its outside surface is preferably smooth, so that when the caster-wheel is removed it will furnish a track, as it were, to enable the piece of furniture to be readily and easily pushed around on the floor. The edges of this metallic disk are turned up so as to form an outside rim, the tacks above mentioned being mere projections therefrom and integral therewith, and inside of this rim is placed the rubber disk, which is of course of proper size to fit and be held snugly therein. Both these disks are provided with a central hole, through which the caster-pintle is inserted, the hole in the rubber being preferably a little smaller than the one in the metallic disk. The metallic and rubber disks being fitted together, the projecting parts or tacks of the former are forced or driven into the wood, and the disks thus secured to the bottom of the leg. The caster-pintle is then inserted and passed up the required distance in the hole in the leg, its rim or flange being forced through and resting on the upper side of or above the rubber disk, which, compressing from all sides, serves to secure and hold the same in place and render it incapable of being removed without the exercise of considerable force.

A small thimble may be inserted in the hole of the leg, to fit over the upper end of the pintle when the caster is applied or in use. This thimble serves as a covering for the upper end of the pintle, and of course prevents its coming in contact with the wood, so as to dig or wear into the same, and thus enlarge the hole in its upper end.

In place of the rubber disk a suitable metallic or other spring may be used, (see Fig. 7,) such spring being secured within the rims of the metallic disk and fitting and pressing against the caster-pintle under its encircling rim or flange above mentioned. In this way the spring operates to prevent displacement of the caster.

I am aware of the Twining patent of May 18, 1869, and the Berkey patent of May 26, 1885; but my invention differs from the casters described therein, respectively, particularly in its rubber disk, small thimble, and peculiar means for attaching its metallic disk to the wood, which render it more simple and economical in construction and operation.

I claim—

1. In combination with the bottom of the leg of a piece of furniture, a caster comprising a metallic disk having an outside rim or flange, a rubber disk fitting and secured within such rim or flange, a pintle having an encircling rim or flange near the wheel-arms and means for securing the whole to the bottom of the leg, substantially as described.

2. In combination with the bottom of the leg of a piece of furniture, a caster provided with a metallic disk having an outside rim or flange, and with a spring fitting and secured within such rim or flange, substantially as described.

3. In combination with the bottom of the leg of a piece of furniture, a metallic disk provided with projections or tacks formed integral therewith, driven or forced into the bottom of the leg, and having a central orifice to receive and guide the caster-pintle, and a smooth outside surface forming a track, to enable it to glide easily over the floor when the pintle and wheel are removed, substantially as described.

4. In combination with the bottom of the leg of a piece of furniture, a metallic disk provided with a rim and projections or tacks formed integral therewith, driven or forced into the bottom of the leg, a rubber disk secured and held within the rim of the metallic disk, a caster-pintle inserted through a central hole in the metallic and rubber disks, provided with a rim or flange near its point of juncture with the wheel-arms to fit in above the rubber disk, and a caster-wheel, substantially as described.

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