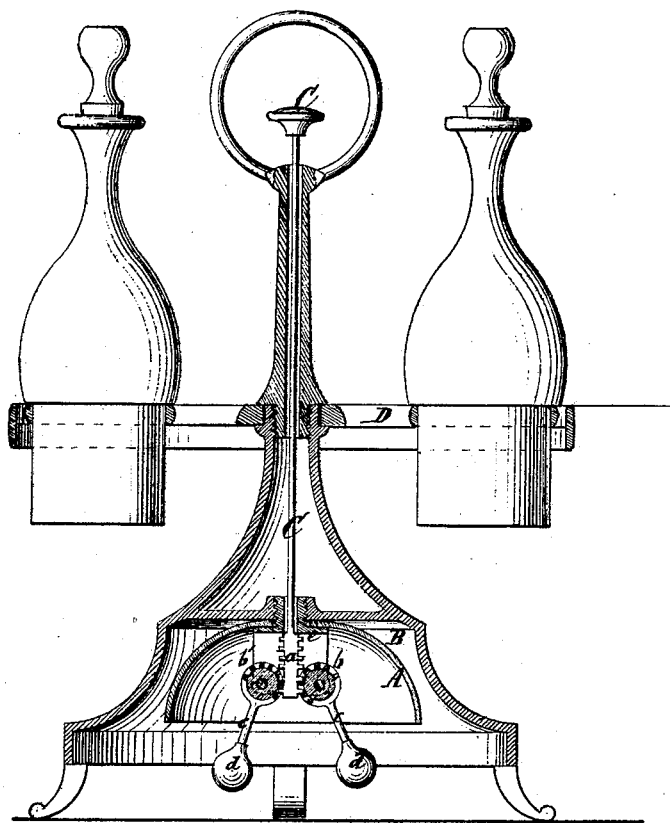


P. A. Bletterlein,

Caster.

№. 109/101.

Patented Nov. 8. 1870.



Witnesses.
 A. Mahler
 C. F. Hastenhuber

Inventor,
F. H. Blattnick
per
Veg. Sanford & Hauff
Attys

United States Patent Office.

FREDERICK ANTON BLÄTTERLIEN, OF WEST MERIDEN, CONNECTICUT.

Letters Patent No. 109,101, dated November 8, 1870.

IMPROVEMENT IN CALL-BELLS AND CASTER-STANDS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FREDERICK ANTON BLÄTTERLIEN, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and improved Call-Bell and Caster-Stand, combined; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, which drawing represents a vertical central section of my invention.

This invention consists in the arrangement of a toothed rack on the inner end of the touch-rod which projects up through the center of the bell, in combination with a pinion which gears in said rack, and from which extends the rod carrying the clapper in such a manner that by depressing the touch-rod the pinion is caused to revolve and the clapper is thrown in contact with the bell, and when said touch-rod is released the weight of the clapper causes the pinion to revolve in the opposite direction, and the touch-rod, with its rack, are carried back to their original position.

A suitable guide-roller keeps the rack of the touch-rod in gear with the clapper-pinion.

The invention consists, also, in the arrangement of a call-bell in the hollow part of a caster-stand, the touch-rod of said bell extending up through the handle of the caster-stand and acting on the clapper or clappers of the bell in such a manner that the bell is entirely concealed, and that the same does not interfere with the revolving motion of the frame containing the caster.

In the drawing—

The letter A designates a bell which is supported on the stand B, as shown.

Through the center of the bell rises the touch-rod C, and to the inner end of this touch-rod is attached a toothed rack, *a*, which gears in a pinion, *b*, mounted on a pin secured in the stand B.

From said pinion extends a rod, *c*, to the end of which is secured the clapper *d*.

A roller, *b'*, which bears on the edge of the rack opposite to the pinion *b*, serves to keep said rack in gear with the pinion.

This roller is mounted on a pin secured in the stand B, and, if desired, it may also be provided with cogs, to gear in corresponding cogs on the edge of the rack, so that this second clapper will be operated simultaneously with the clapper *d*.

A shoulder, *e*, above the rack *a*, prevents the touch-rod from rising beyond the desired point.

By depressing the touch-rod C the clapper is thrown in contact with the bell, and when the touch-rod is released it is carried back to its original position by the weight of the clapper.

By these means a mechanism for operating call-bells is obtained which is very simple and cheap, all its parts being so constructed that they can be cast and put together with little trouble or loss of time.

If the stand of the call-bell is constructed with a revolving caster-frame, D, the touch-rod C extends up through the handle of said stand, and the mechanism required for sounding the bell does not interfere with the revolving motion of said caster-frame, and at the same time the bell is entirely concealed under the caster-stand.

What I claim as new, and desire to secure by Letters Patent, is—

The rack *a*, secured to the touch-rod C, and gearing in a pinion, *b*, which carries the clapper *d* in combination with a bell, A, mounted on a stand, B, with or without the revolving frame D, substantially as shown and described.

F. A. BLÄTTERLIEN.

Witnesses:

CHAS. H. SHAW,
GEORGE A. FAY.