

J. M. HINCHEY.
DOOR-BELL.

No. 178,056.

Patented May 30, 1876.

Fig: 1.

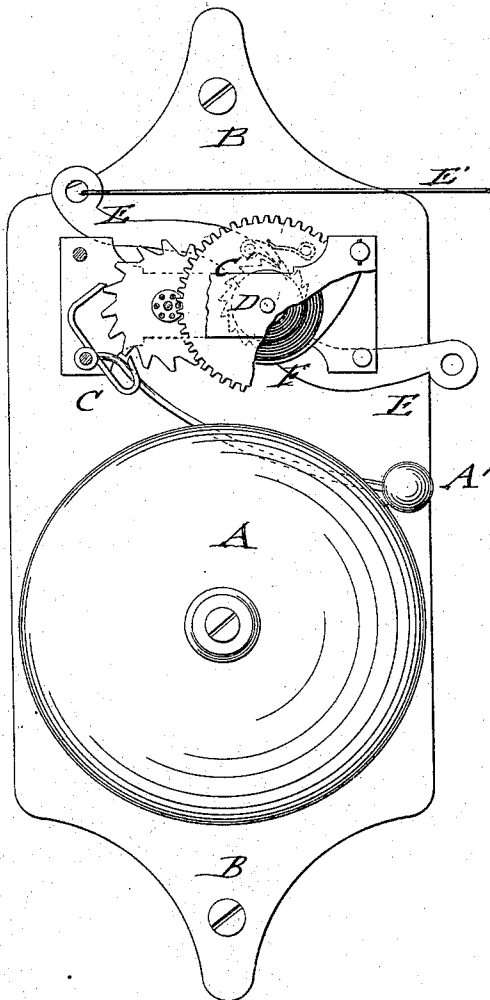
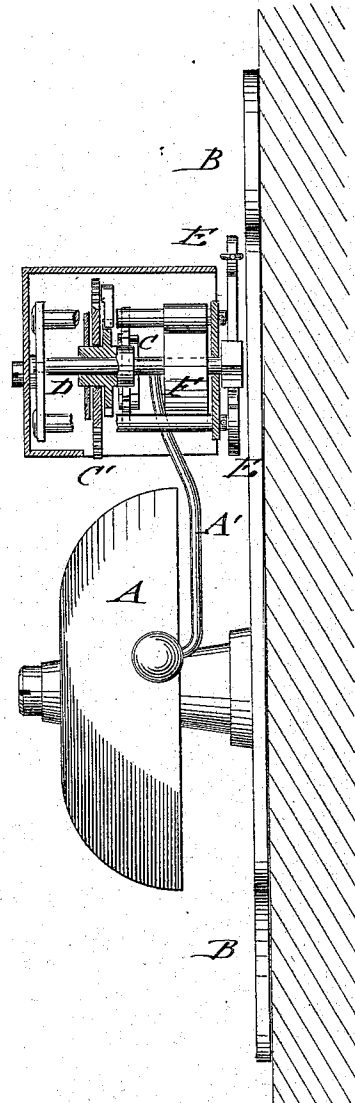


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES M. HINCHEY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN DOOR-BELLS.

Specification forming part of Letters Patent No. **178,056**, dated May 30, 1876; application filed May 9, 1876.

To all whom it may concern:

Be it known that I, JAMES M. HINCHEY, of Philadelphia, in the county of Philadelphia and State of Pennsylvania have invented a new and Improved Door-Bell, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view, and Fig. 2 a side view, partly in section, of my improved door bell or gong.

Similar letters of reference indicate corresponding parts.

The invention refers to an improved door bell or gong that is worked with great facility so as to furnish a reliable and loud ringing by a light or strong pull, and avoid thereby the necessity of pulling repeatedly to produce the alarm.

The invention consists of a bell mechanism operated by a swinging lever that winds up a spring and rings the bell on a release of the pull, by the action of the spring and transmitting gear-wheels.

In the drawing, A represents a gong attached by a post to a plate, B, that is secured to the wall. The gong is sounded by a clapper, A', which is set in motion by a pallet, C, operated by an escapement-wheel, a loose gear-wheel, C', and a pivot-pawl, c, from a stationary cog-wheel of the winding-shaft D of the alarm mechanism. The winding-shaft D is turned by means of a double lever, E, that may be pulled from right or left by the wire E', connecting with the bell-pull at the

door. A strong band-spring, F, is coiled around the winding-shaft and attached by its inner end to the same, the outer end being secured to one of the supporting-posts of the alarms.

When the lever is pulled, the shaft is turned and the spring wound up on the same, the bell not being rung as the connecting-gears run free on the shaft. As soon as the pull is released, the spring expands and turns the shaft in opposite direction, so as to work the connecting gear-wheels, actuate the clapper, and ring the bell.

The alarm will be sounded whether a light or strong pull is given at the door, as the self-setting spring-mechanism produces in all cases a clear and even ringing of the bell-alarm, being more reliable and superior to the common bell devices in use.

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

A door-bell alarm, composed of a swinging lever connected to the door-pull, a winding-shaft, a coiled spring, transmitting gear-wheels, and a bell or gong, being so constructed that the bell is rung by the action of the spring as soon as the door-pull is released, substantially as and for the purpose specified.

JAMES M. HINCHEY.

Witnesses:

CHAS. E. PANCOAST,
JAMES S. MCCONAGHY.