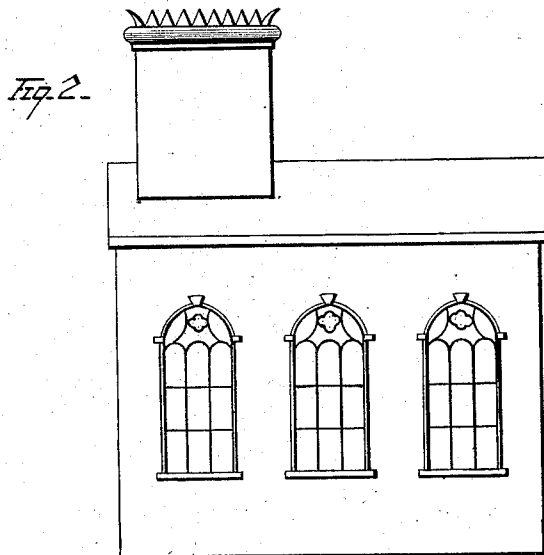
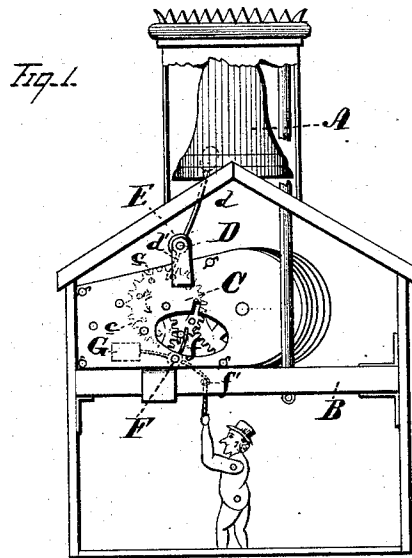


T. M. BRINTNALL.
Automatic Bell-Ringers.

No. 157,905.

Patented Dec. 22, 1874.



WITNESSES.

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UNITED STATES PATENT OFFICE.

THOMAS M. BRINTNALL, OF NEW YORK, N. Y.

IMPROVEMENT IN AUTOMATIC BELL-RINGERS.

Specification forming part of Letters Patent No. **157,905**, dated December 22, 1874; application filed April 29, 1874.

To all whom it may concern:

Be it known that I, THOMAS M. BRINTNALL, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Toys; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improved toy; and consists in the combination of parts as hereinafter set forth and claimed.

In the drawings, Figure 1 is a view of my invention with the front of the house removed to show the construction and operation of the device, and Fig. 2 is a side view of the same.

A is a swinging or stationary bell or gong in the tower or steeple of a toy school-house, church, &c. Immediately beneath the tower, upon a suitable platform, B, is a clock-work arranged to operate with a spring, and be wound up with a key.

The only peculiarity of this clock-work is the wheel C. This wheel is geared into the other wheels, in such a manner as to run regularly as the spring releases itself. It is provided upon the side of its rim with lugs or posts *c*, which project out in front of the main surface of the wheel C. D is a shaft, provided with two wires, *d d'*, the former carrying the bell-knocker, and the latter extending down adjacent to the side of the wheel C, so that as the wheel revolves the lugs *c*, will strike against it, turning the shaft D, and after the lug *c* has passed sufficiently far to release the wire *d*, a spring, E, upon the shaft D, causes it to retract and deliver a blow upon the bell.

Another shaft, F, similar to the shaft D, is provided with similar wire projections *ff'*. The shaft D is arranged to be acted upon by the lug *c*, to ring the bell. The other wire, *f'*, is connected with a cord that passes down below, and

is there attached to the figure of a man, who appears to draw upon the rope every time the bell taps or sounds, thus having the appearance of ringing the bell by pulling upon the rope. The shaft F, after the lug *c* has passed by the wire *f*, is brought back to its original position, either by a counterpoise-weight, G, or by any other suitable arrangement—as, for instance, a spring.

I do not limit myself to the particular mechanism here shown for operating the bell and the man. Other clock-work arrangements may be substituted that will serve precisely the same purpose.

I am aware that figures of men operated by the clock mechanism, have been made to strike the hours of the day upon a bell; also, that toy locomotives have been made wherein the figure of a man was made to ring the bell as the locomotive was drawn along. These, therefore, I do not claim; but

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

1. An automatic toy, consisting of a church, school, or other building, a bell, clock-work, and a toy figure, constructed and arranged substantially as described, whereby said clock-work is made to ring the bell, and at the same time give to the toy figure the appearance of ringing the bell by its own movement of pulling upon a rope, as set forth.

2. The combination of the wheel C, provided with the lug *c*, the tipping-lever D, provided with the projections *d d'*, and the tipping-lever F, provided with the arms *ff'*, the whole so arranged and adjusted that levers D and F will tilt simultaneously, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of April, 1874.

THOMAS M. BRINTNALL.

Witnesses:

HUGH EARL, Jr.

JOHN FIGEL.