

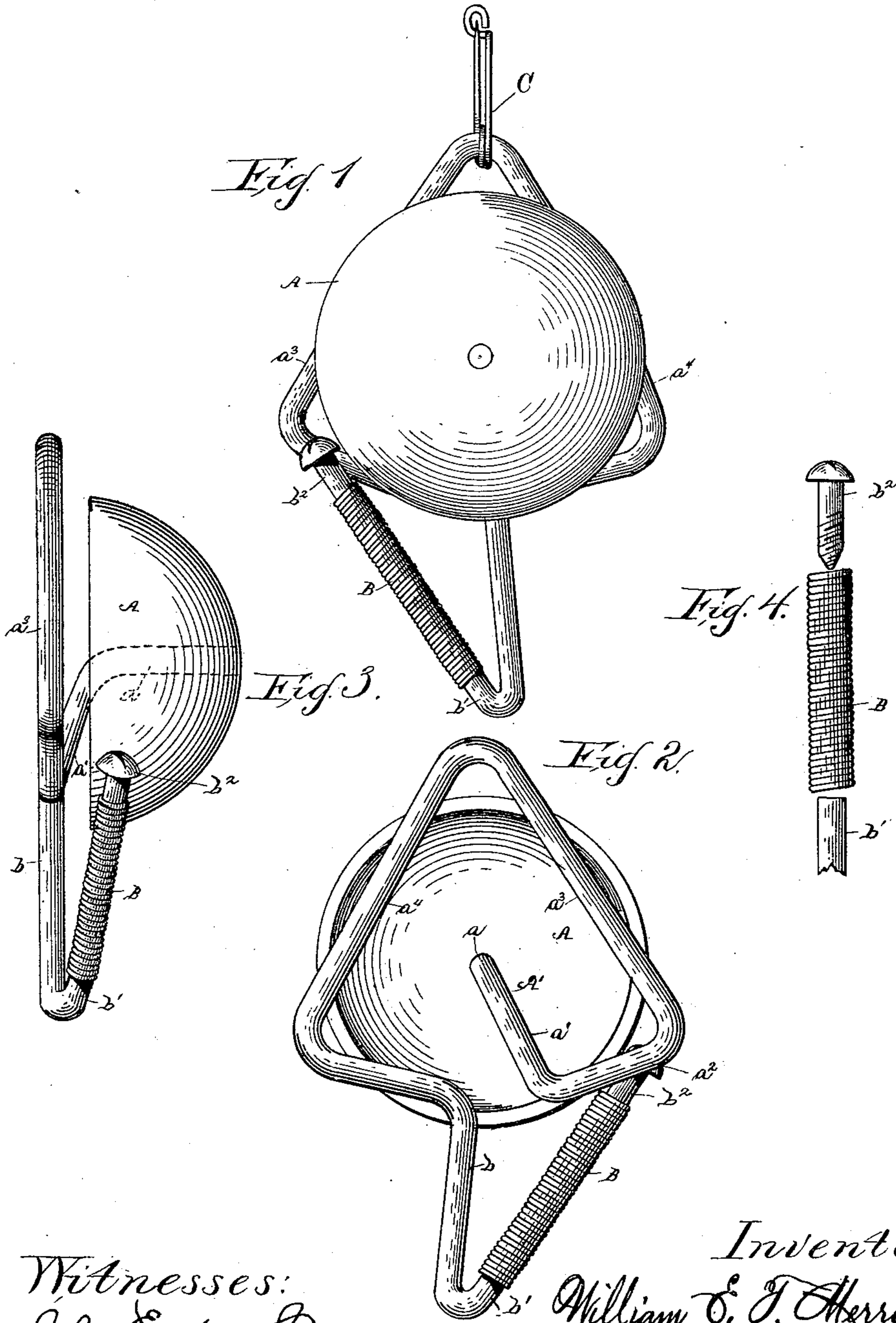
(No Model.)

W. E. T. MERRILL.

BELL.

No. 350,145.

Patented Oct. 5, 1886.



Witnesses:  
 John Enders, Jr.  
 Roda McGill.

Inventor:  
 William E. T. Merrill,  
 By *[Signature]*

Attorneys:

# UNITED STATES PATENT OFFICE.

WILLIAM E. T. MERRILL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
OF TWO-THIRDS TO ROBERT REACH AND ALEXANDER GRAY, BOTH OF  
SAME PLACE.

## BELL.

SPECIFICATION forming part of Letters Patent No. 350,145, dated October 5, 1886.

Application filed August 4, 1886. Serial No. 209,960. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. T. MERRILL, a citizen of the United States of America, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Bells, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in bells; and it consists in the detailed construction, combination, and arrangement of the parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figures 1 and 2 are front and rear views, respectively, of my invention. Fig. 3 is a side view thereof, and Fig. 4 is a detail view.

In carrying out my invention I employ a gong or plate, A, of hemispherical shape, the same normally being disposed in a vertical position, with its open side or end facing rearwardly. To the center of this gong or plate is secured, in an aperture formed therein, one end of a strong stiff wire, A', which projects in a horizontal plane rearwardly, as at *a*, to about on a vertical line with the inner end of the gong or plate, at which point it is bent downwardly and rearwardly to one side, as at *a'*, and thence bent on a nearly-horizontal plane, as at *a''*, and projects slightly beyond the lower side of said gong or plate. Said wire is thence bent upwardly on an inclined plane, as at *a'''*, to a point a short distance above the center of said gong or plate, directly over the horizontal portion of said wire, at *a*, whence it is bent downwardly on an inclined plane, as at *a'*, corresponding to the plane *a''*, to about on a horizontal line with the correspondingly-bent portion *a''*, to about the center of the gong or plate. The wire is at this point bent downwardly on a vertical plane, as at *b*, the extreme lower end of which is bent upwardly and outwardly a short distance, forming a hook, *b'*. On this inclined

hook is secured one end of a coil-spring, B, to the other free end of which is secured a small screw, *b'*, serving as a clapper or striker, as will hereinafter appear. The groove on said screw conforms to the inner surface of the coil-spring, so that by turning said screw it will be securely retained in position therein. By bending forwardly the hook *b'* the clapper or striker projects forwardly on one side of the gong or plate, so that by slightly pressing downwardly on the said clapper or striker the same will by reason of its spring be caused to fly back, striking the gong or plate, and this can be repeated as often as may be desired.

An ordinary safety-pin, C, or other analogous means, is secured on the wire A', at about the extreme upper projecting portion thereof, for securing the device to the clothes of the wearer.

It will be seen that by forming the wire in the manner described, and shown in the accompanying drawings, the same has an approximately-triangular shape, and is so formed in relation to the gong or plate as that the same rests against the person of the wearer, without affecting the sound produced by the striking of the clapper or striker against the gong or plate.

I do not limit myself to the means shown for attaching or securing my bell to the person of the wearer, as, if desired, the upper projecting portion of the wire may be extended into a rearwardly-projecting hook for securing the bell to the pocket of the wearer.

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

1. The herein-described bell, consisting of the gong or plate, the wire of triangular formation having one end secured to the center of said gong or plate on its concave side, and the clapper or striker connected to the other or hooked end of said wire, substantially as shown and described.

2. The combination, with the gong or plate and the wire secured to the center thereof on its concave side, having a hooked end, of the

coil-spring secured on said end and the screw in the upper end of said spring, substantially as shown and described.

5 3. The combination, with the gong or plate, of the clapper or striker consisting of a coil-spring and screw, said spring being connected to one end of a wire, the other end of which is connected to the center of said gong or plate

on its concave side, substantially as shown and described. 10

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM E. T. MERRILL.

Witnesses:

JAMES S. PHILLIPS,  
JOHN ENDERS, Jr.