W. H. NICHOLS.

Improvement in Call-Bells.

No. 130,818. Patented Aug. 27, 1872.

Fig. 2.

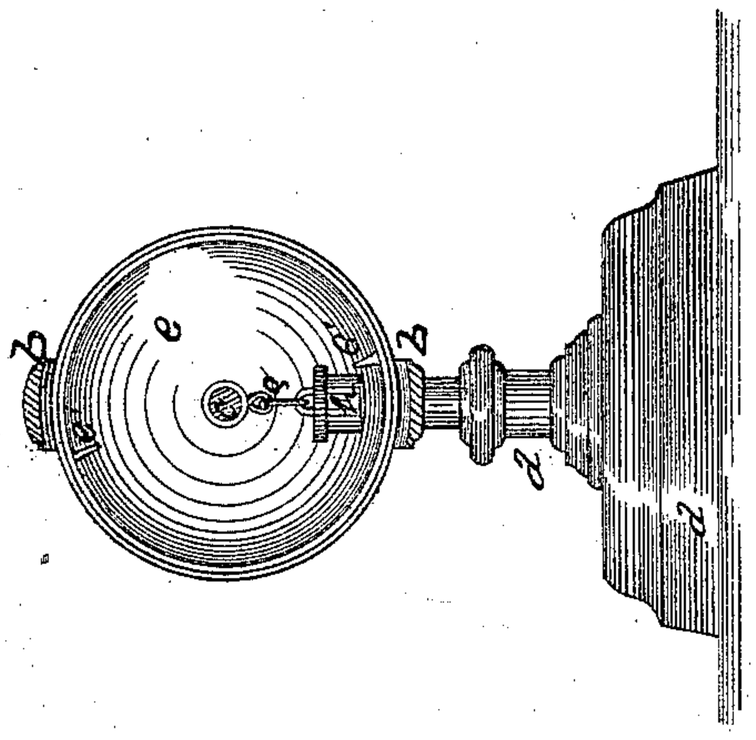
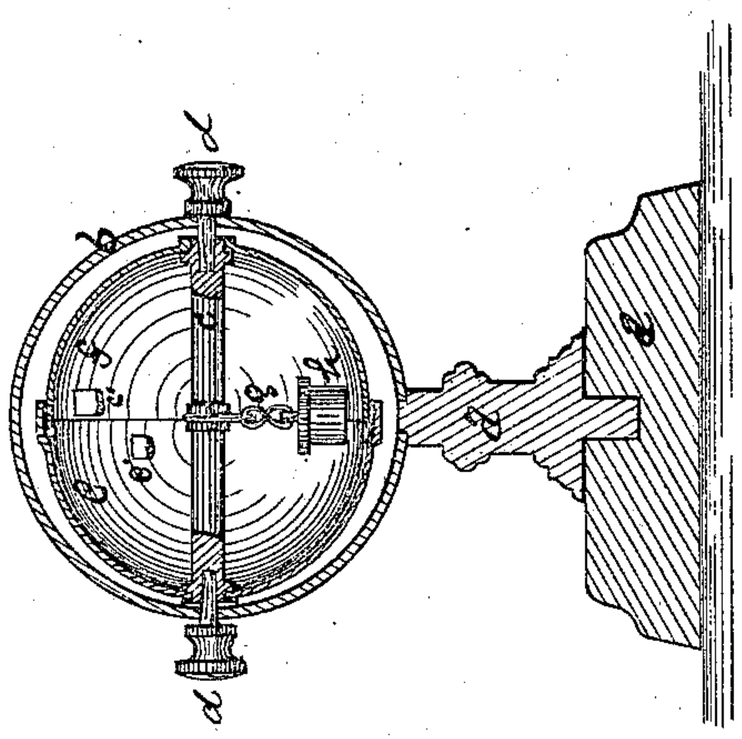


Fig. 1.



Witnesses.

L Häfeli

George G. Bell

Inventor.

Wm H. Nichols

by W. E. Simonds

Solicitor.

UNITED STATES PATENT OFFICE.

WILLIAM H. NICHOLS, OF EAST HAMPTON, CONNECTICUT.

IMPROVEMENT IN CALL-BELLS.

Specification forming part of Letters Patent No. **130,818**, dated August 27, 1872.

SPECIFICATION.

I, WILLIAM H. NICHOLS, of East Hampton, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Call-Bells, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a central vertical section. Fig. 2 is a view at right angle to the view in Fig. 1, showing the interior of one of the cups or shells of which the bell is composed.

This invention relates to a call-bell composed of two concave shells, made of any suitable bell-metal, mounted upon a horizontal revolving shaft, with the openings or mouths of the shells opposed to or facing each other; and it consists in having a tongue or clapper loosely hung upon the center of the horizontal shaft, so that the tongue will hang straight down like a pendulum, by its gravity, irrespective of the revolution of the shaft; and in placing lugs or wings upon the interior of the concave shells, so that when the shells and shaft are revolved the clapper will strike upon the lugs and cause the shells to ring.

The letters *a a* indicate a wooden standard, to the top of which is fixed the vertical ring *b*, within which is pivoted the shaft *c* by means of the knob-pins *d d*. On this shaft are screwed the bell-metal shells *e f*, the edge of the former overlapping the edge of the latter, but not touching it, thus concealing the interior from view. Directly opposite from each other there are two lugs or wings, *e'*, cast upon the interior of the shell *e*, and two similar lugs or wings, *f'*, upon the inside of the shell *f*. The shells are so arranged upon the shaft that these wings will be each a quarter circle distant from its nearest neighbor. From the center of the length of the shaft depends the chain *g*, having the button or clapper *h* at its lower or free end, the whole forming a tongue.

When the shells are revolved the tongue strikes the lugs or wings *e'* and *f'* alternately and thus sounds the bell, and as the shells will almost always be of different tone the sounds will be pleasing. The bell is revolved by means of the knob-pins.

I claim as my invention—

1. The combination of the shells *e f*, set upon a horizontal revolving shaft, pivoted within a vertical ring or frame attached to the stand, and provided with lugs or wings, as described, with a tongue fitted to strike upon the lugs or wings, as described and shown.

2. The shells *e f*, having the lugs or wings cast upon and in one piece with them, substantially as and for the purpose set forth.

WILLIAM H. NICHOLS.

Witnesses:

LAVINA C. NICHOLS,

LOVELL HALL.