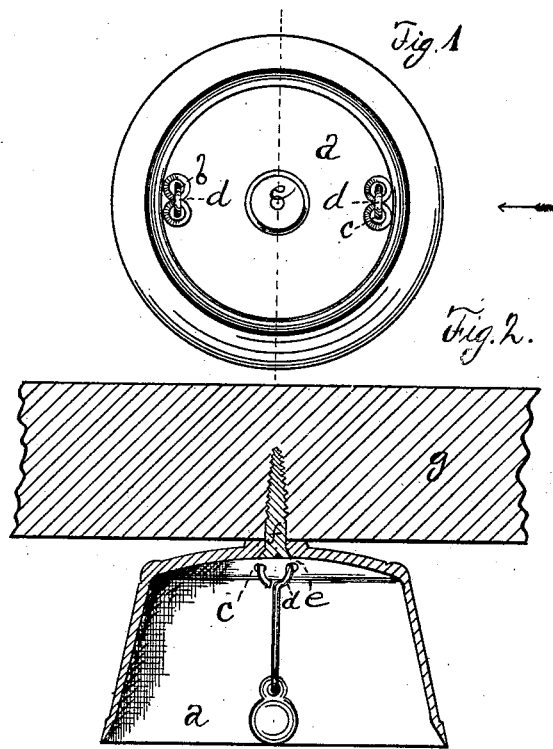


W. H. NICHOLS.

BELLS.

No. 190,242.

Patented May 1, 1877.



WITNESSES:

*Robt F. Gaylord*  
*J. B. Gaylord*

INVENTOR:

*Wm H. Nichols*  
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Att'y.

# UNITED STATES PATENT OFFICE.

WILLIAM H. NICHOLS, OF EAST HAMPTON, CONNECTICUT.

## IMPROVEMENT IN BELLS.

Specification forming part of Letters Patent No. **190,242**, dated May 1, 1877; application filed February 12, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM H. NICHOLS, of East Hampton, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements pertaining to a Double-Tongued Bell, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a top view of the bell. Fig. 2 is a central vertical transverse section of the bell, attaching-screw, and shaft to which it is attached.

My invention has relation to the construction of small bells, such, for instance, as are attached to sleigh-shafts, and called "shaft-bells."

My peculiar and novel construction enables me to cast the bell all in one piece, complete for use, except attaching the tongues and attaching the bell to the shaft or the like, and if the bell be made of sheet metal it may be as completely struck up all in one piece.

This construction also enables me to attach the bell to the shaft or the like by means of a common wood-screw, using a common screw-driver, so that any sleigh-owner can readily attach as many or as few bells as he pleases, with a common screw-driver, such as almost every one possesses.

The bell *a* is cast or struck up all in one piece. In the casting or striking up, two holes, *b c*, near to each other, with a slight bridge between them, are left in the top of the bell, near the periphery, one such set of holes on either side the center, and the upper ends of the tongue-wires *d* are loosely looped around these bridges. In the top of the bell there is also left a screw-hole, *e*, for the passage of the common wood-screw *f*, which connects the bell to the shaft *g*, or the like.

By this means of construction I get a bell which is very cheap of manufacture, very durable in use, very easy of attachment, and of excellent ringing quality.

I claim as my invention—

1. A bell all in one piece, and having the two sets of holes *b c* in the top for the attachment of the tongues, substantially as described.

2. A bell all in one piece, having the two sets of holes *b c* in the top for the tongue-wires, and the central screw-hole *e*, for the attaching-screw, substantially as described.

WILLIAM H. NICHOLS.

Witnesses:

WM. E. SIMONDS,  
ROBT. F. GAYLORD.