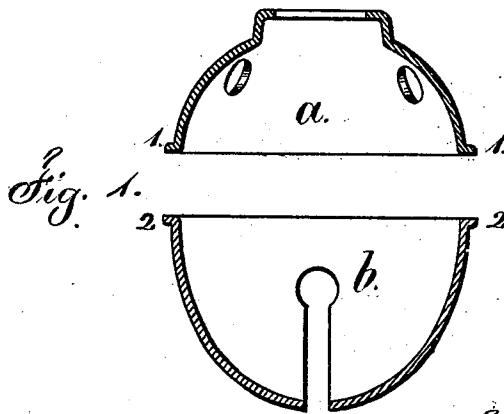
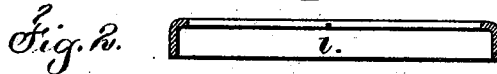
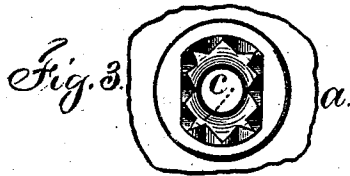
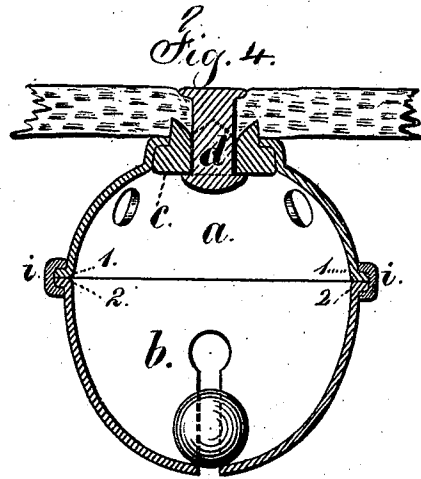


L. J. ATWOOD.

SLEIGH-BELLS.

No. 174,651.

Patented March 14, 1876.



Witnesses

Chas. H. Smith
Harold L. L. L.

Inventor

Lewis J. Atwood.

per Lemuel W. Perrell
att'y.

UNITED STATES PATENT OFFICE.

LEWIS J. ATWOOD, OF WATERBURY, CONNECTICUT.

IMPROVEMENT IN SLEIGH-BELLS.

Specification forming part of Letters Patent No. 174,651, dated March 14, 1876; application filed November 27, 1875.

To all whom it may concern:

Be it known that I, LEWIS J. ATWOOD, of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Sleigh-Bells, of which the following is a specification:

Sleigh-bells have been made of two sheet-metal sections or shells, stamped up and put together. Toy bells of this character have had a flange upon one portion, that has been turned or closed over a flange around the other portion after the jingle has been put in; and in cases where sleigh-bells have been made of sonorous metal, the thickness of the metal and its hardness have rendered it difficult to close in this flange neatly, especially if the bell is otherwise finished before placing the shells together. In other instances the shells have been soldered together; but this has to be done before the shells are finished, and it is liable to interfere with their sound.

My invention is made for the purpose of avoiding the difficulties before named; and consists in a sleigh-bell made of two shells of hard sonorous sheet metal, stamped up and having a narrow rim around the edge of each, and united by a ring that is closed around these rims and tightly holds the parts of the bell together.

By this construction the shells of the bell can be made of sheet metal of any desired thickness and hardness, so as to obtain the desired strength and sonorousness, and the ring can be of thin and comparatively soft metal, so as to be neatly closed around the rims of the shells, and the shells and rims can be plated or otherwise entirely finished before being put together, and the ring can be of one color or metal and the shells of another, or the two shells may be of different colors or finish, and the ring of a third color, thus greatly increasing the beauty of the bell, and the shell that is riveted to the strap can be

attached thereto before the bell is put together, thereby greatly facilitating the attachment and finishing of the bell.

In the drawing, Figure 1 is a section of the two bell-shells detached. Fig. 2 is a section of the ring separately. Fig. 3 is a rear view of a portion of the back shell, and Fig. 4 is a section of the bell complete.

The back shell *a* is stamped up from a blank of sheet metal, and formed with a rim, 1. The front shell *b* is similarly formed with a rim, 2. Into the back shell *a* is inserted a base-piece, *c*, having a head within the shell and a body that projects through an oblong hole in said shell, and terminates with points, as seen in Figs. 3 and 4. This base-piece *c* has a central hole for a rivet, *d*, that attaches the bell to the strap. The points or roughened surface of this base prevents the bell turning or becoming loose upon the strap. This base *c* may be soldered to the shell *a*. The shells *a* and *b* are made with openings, slots, or tongues, as usual in sleigh-bells, and these shells are to be finished by plating, burnishing, or otherwise, before being put together.

The ring *i* is adapted to being placed around the rims 1 and 2, and its edges bent or closed over such rims, so as to hold them firmly together, and when this is done by a suitable die and press, the sound of the bell will be clear and free from the dull heavy sound that often results from other modes of manufacture.

I claim as my invention—

The sleigh-bell made of two shells with rims, secured together by a separate ring bent over or closed around such rim, as specified.

Signed by me this 18th day of November, A. D. 1875.

L. J. ATWOOD.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.