

(No Model.)

G. W. McCLINTOCK.

SLEIGH BELL.

No. 282,344.

Patented July 31. 1883.

Fig. 1.

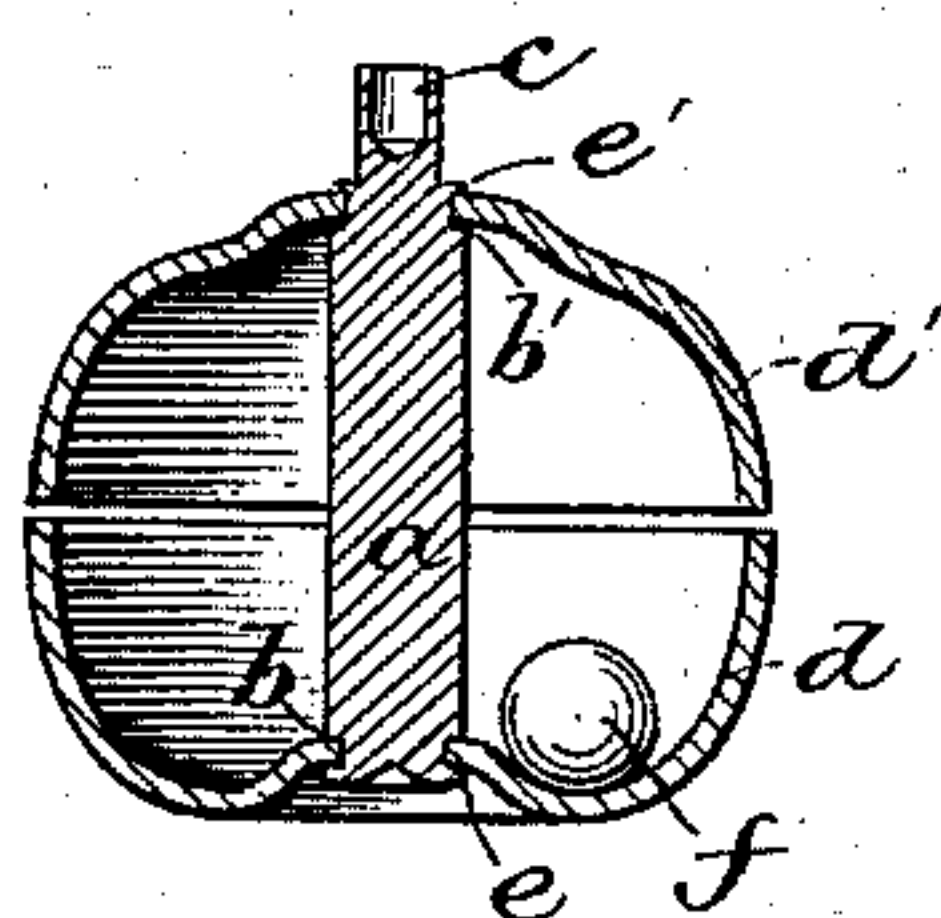
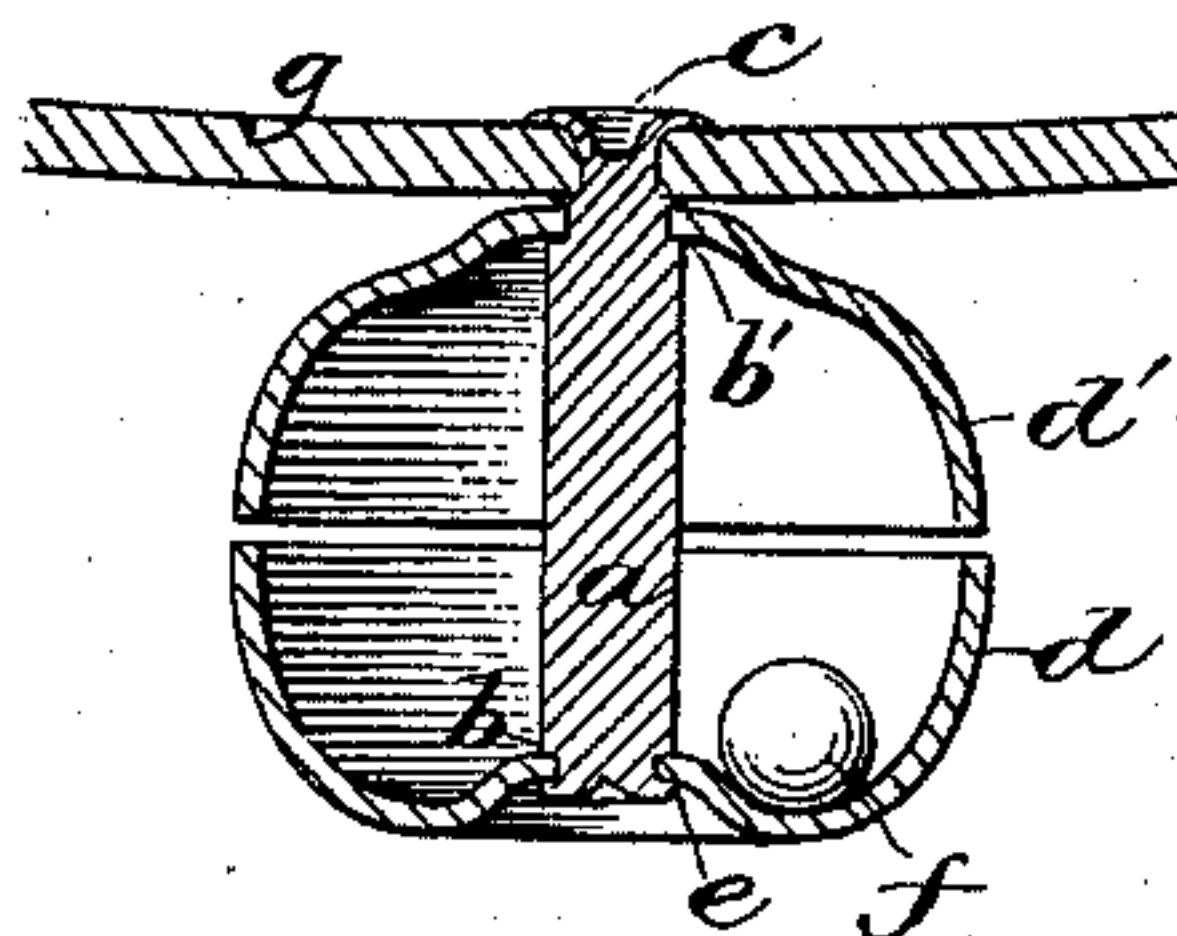


Fig. 2.



Witnesses:

W. Williams

A. L. White.

Inventor:

Geo. W. McClintock
by Wright & Brown
Attys.

UNITED STATES PATENT OFFICE.

GEORGE W. McCLINTOCK, OF BOSTON, MASSACHUSETTS.

SLEIGH-BELL.

SPECIFICATION forming part of Letters Patent No. 282,344, dated July 31, 1883.

Application filed February 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. McCLINTOCK, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain
5 Improvements in Sleigh-Bells, of which the following is a specification.

This invention consists in a sleigh-bell composed of two cups placed mouth to mouth on a supporting-post and united to the latter by
10 upsetting the post, so as to form burrs which hold said cups against shoulders on the standard.

The invention also consists in forming one end of the post as a tubular rivet adapted to
15 be secured to a leather strap, all of which I will now proceed to describe.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a sectional view of my improved bell before
20 it is attached to the strap that connects it to a sleigh. Fig. 2 represents a similar section, showing the bell attached to its strap.

The same letters of reference indicate the same parts in all the figures.

25 In the drawings, *a* represents a metallic post, having its ends reduced to form shoulders *b* *b'*, one of said reduced ends being longer than the other, and made tubular, so as to constitute a tubular rivet, *c*.

30 *d* *d'* represent metallic cups or bell-sections placed mouth to mouth on the post *a*, each cup resting on one of the shoulders of the post. The cup *d* is secured to the post by upsetting the end of the latter to form a burr,
35 *e*, which holds the bell against the shoulder *b*, and the cup *d'* is secured to the post by forming a burr, *e'*, on the longer reduced end of the post by a suitable tool which indents the post and displaces metal to form said burr.

40 The cups *d* *d'* are thus firmly secured to the post with their proximate edges slightly separated. A loose metal ball, *f*, is placed in one of the cups before the attachment of the cup to the post, and constitutes the hammer or
45 clapper of the bell. The bell is attached to a

leather strap, *g*, by inserting the tubular end thereof into an orifice in said strap and upsetting said tubular end, as shown in Fig. 2.

The cup *d* is preferably indented at its center, so as to form a depression on its outer surface. Said depression forms a concave annular channel or trough around the post *a*, holding the ball *f*, and preventing the ball from bearing against the post. Hence, when the ball is agitated by the motion of the bell, said
55 ball strikes with its full force against the resonant portion of the bell, and gives a clearer tone than it would if it were allowed to bear against the post *a*.

By reason of the construction of the bell
60 with the annular channel at its lower part the ball or striker will lie in the channel and away from the central post when it falls to the bottom of the bell. Thus the ball will not be wedged between the side of the bell and the
65 post, as it would be were there no annular channel surrounding the central post.

I claim—

1. A bell composed of two cups, *d* *d'*, a shouldered post, *a*, formed with burrs *e* *e'* to hold
70 said cups in place, and with a tubular rivet adapted to secure said post to a strap, as set forth.

2. As an article of manufacture, a bell composed of a central post and two cups, *d* *d'*, secured thereto, and provided with a loose interposed ball or striker, the lower cup being indented at its center to form an annular channel around the post, whereby the ball or striker is prevented from bearing against the post,
80 as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 30th day of January, 1883.

GEORGE W. McCLINTOCK.

Witnesses:

W. F. SPINNEY,
C. F. BROWN.