

No. 653,195.

A. A. BEVIN & P. C. ARNOLD.

Patented July 3, 1900.

BELL.

(Application filed Oct. 4, 1897.)

(No Model.)

Fig. 1

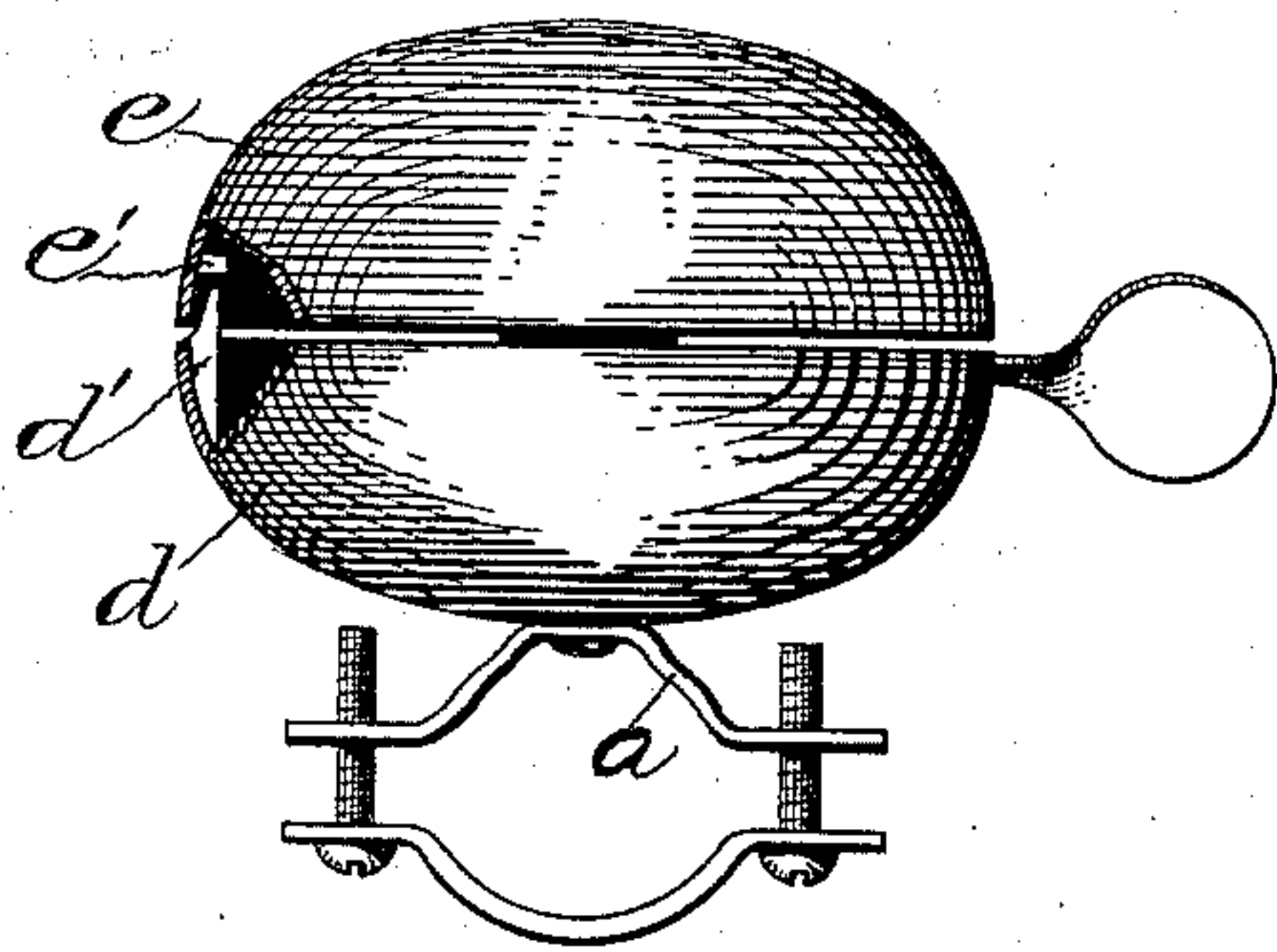


Fig. 2

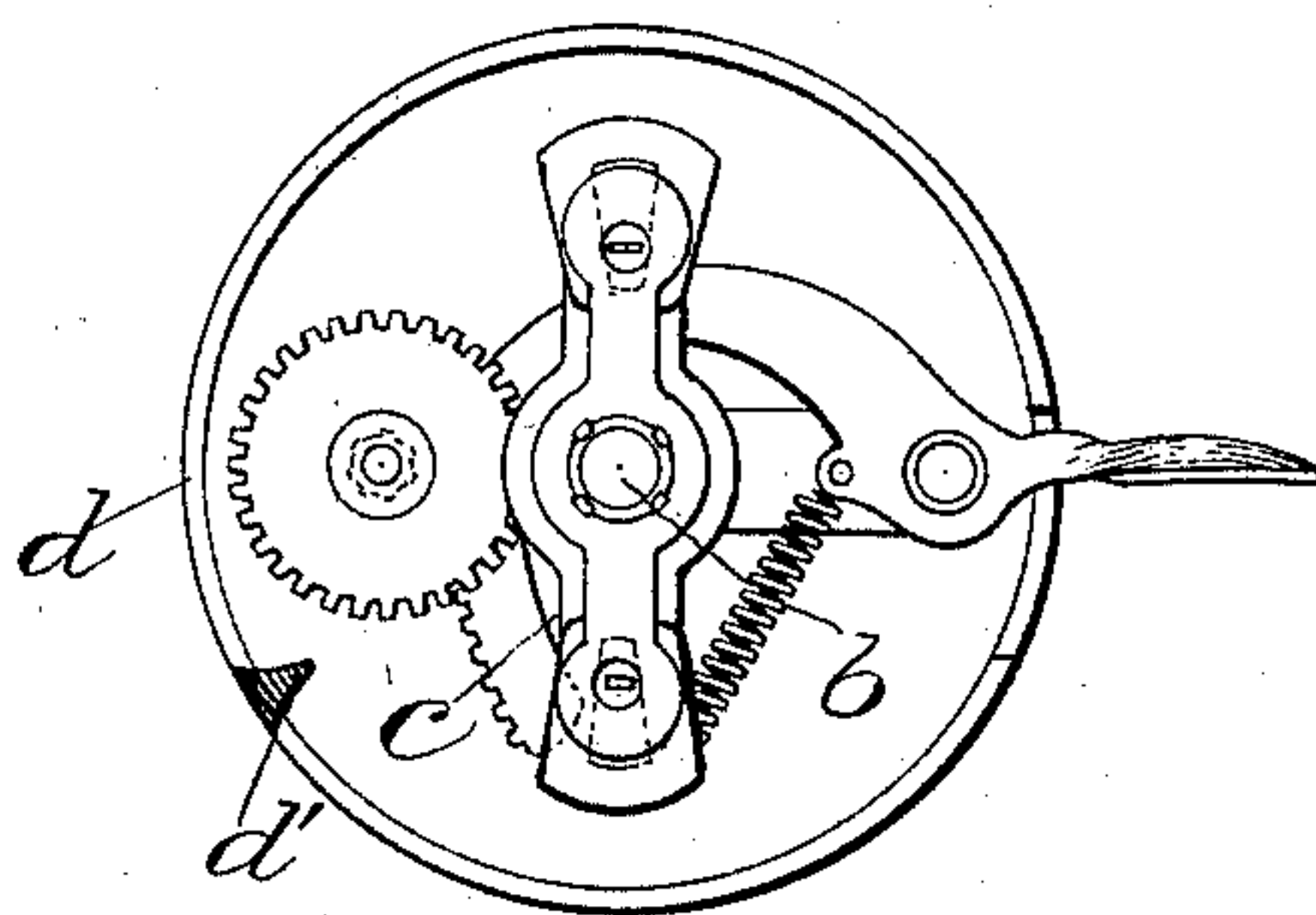
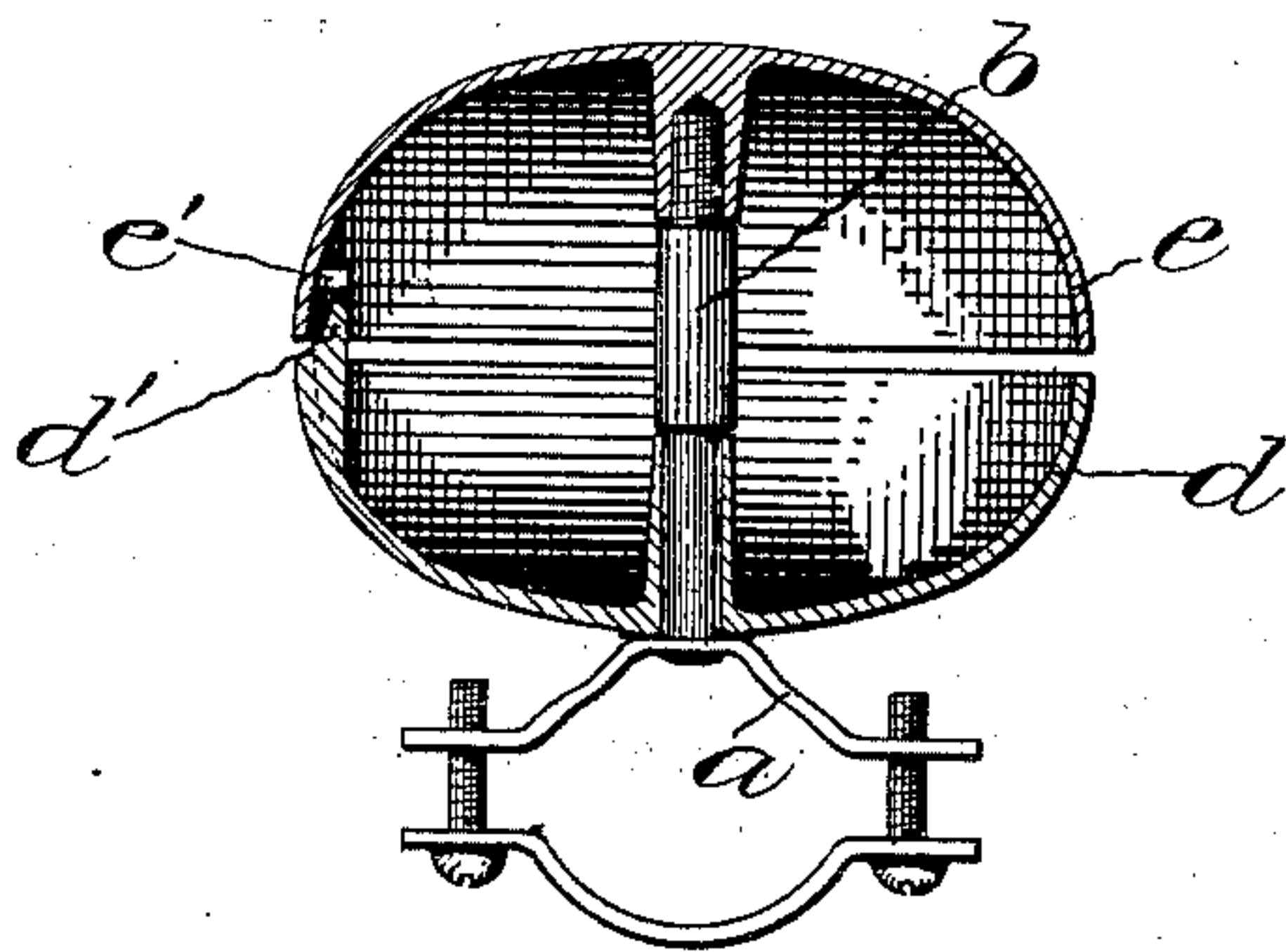


Fig. 3



Witnesses:

William H. Barker,
Arthur D. Jenkins

Inventors

Abner A. Bevin, and
Philip C. Arnold,
by Chas. L. Burdett,
attorney.

UNITED STATES PATENT OFFICE.

ABNER A. BEVIN AND PHILIP C. ARNOLD, OF EAST HAMPTON, CONNECTICUT,
ASSIGNORS TO THE BEVIN BROTHERS MANUFACTURING COMPANY, OF
SAME PLACE.

BELL.

SPECIFICATION forming part of Letters Patent No. 653,195, dated July 3, 1900.

Application filed October 4, 1897. Serial No. 653,986. (No model.)

To all whom it may concern:

Be it known that we, ABNER A. BEVIN and PHILIP C. ARNOLD, citizens of the United States, and residents of East Hampton, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Bells, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

Our invention relates more particularly to that class of small bells used on vehicles, as bicycles, for giving an alarm, although it is applicable to other forms of bells; and one object of our invention is to provide a single striking mechanism that shall operate on different gongs; and a further object is to provide means whereby the different gongs may be readily attached to a common base by means that shall permit the full volume of tone to be given out by each gong.

To this end our invention consists in the details of the several parts making up the device as a whole and in their combination, as hereinafter described, and more particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a view in side elevation of a bell with parts broken away to show construction. Fig. 2 is a plan view of the base-piece, showing the striking mechanism embodying our improvement. Fig. 3 is a detail view, in central section, through the bell, striking mechanism omitted.

In the accompanying drawings the letter *a* denotes a base provided with a suitable clamp for means of attachment, as to the handle-bar of a bicycle or like vehicle. A post *b* extends from the base, and on this post is suitably mounted the striking mechanism *c* of the bell.

In bells constructed prior to our invention in order to obtain the full volume of sound from the different gongs they have been secured to the ends of a post the support for

which extends outward between the two gongs. In an effort to secure the support for the post at one end it has been found that the sound given out by the gong located adjacent to the base or clamp has been muffled. We have found, however, by experiment that by loosely mounting the gong on the post and next to the clamp, so that it shall have a slight play in all directions, the full volume of sound will be given out by that gong.

In the construction of bells of this class it is desirable that a distinct unmuffled blow shall be struck on each of the gongs, and in order to enable a stroke to be thus made the lugs on the two gongs are located in position to be struck by strikers located on each end of a rotary striker-bar rotating in different paths, a striker on one end of the bar operating against one of the lugs and the striker on the opposite end against the other lug. To facilitate the construction of this class of bells, a thumb-lever for operating the striker-bar projects outward between the two gongs; and for this reason it is desirable that the striking mechanism shall be located in both gongs, the peculiar construction locating the striker-bar in the upper gong, and this necessitates that the lugs on the two gongs shall be located within the inclosure formed by the upper gong. As shown in the accompanying drawings, this is effected by projecting the lug *d'* on the gong *d* above the edge of the gong, so that it shall project and lie in the same plane as the lug *e'* on the gong *e*, that is secured to the post *b*, as by interengaging screw-threaded parts. It is obvious that either or both of the lugs may be projected beyond the edge of the respective gongs. By this arrangement a striker-bar with a comparatively thin striker may be employed to sound a plural number of gongs.

We claim as our invention—

1. In combination in a bell, a clamp and base, a post secured at one end to the base and bearing a gong at its other end and a sec-

ond gong yieldingly mounted upon the post and held against undue movement by the post and base, and means for sounding the gong.

2. In combination in a bell, a clamp and a
5 base, a post secured at one end to the base and bearing at its other end a gong having a lug on its interior surface, a second gong yieldingly mounted upon the post and held against undue movement by the post and

base and having a lug projecting upwardly in proximity with the lug on the first-mentioned gong and means for sounding said gongs.

ABNER A. BEVIN.
PHILIP C. ARNOLD.

Witnesses:

C. G. BEVIN,
O. C. WEST.