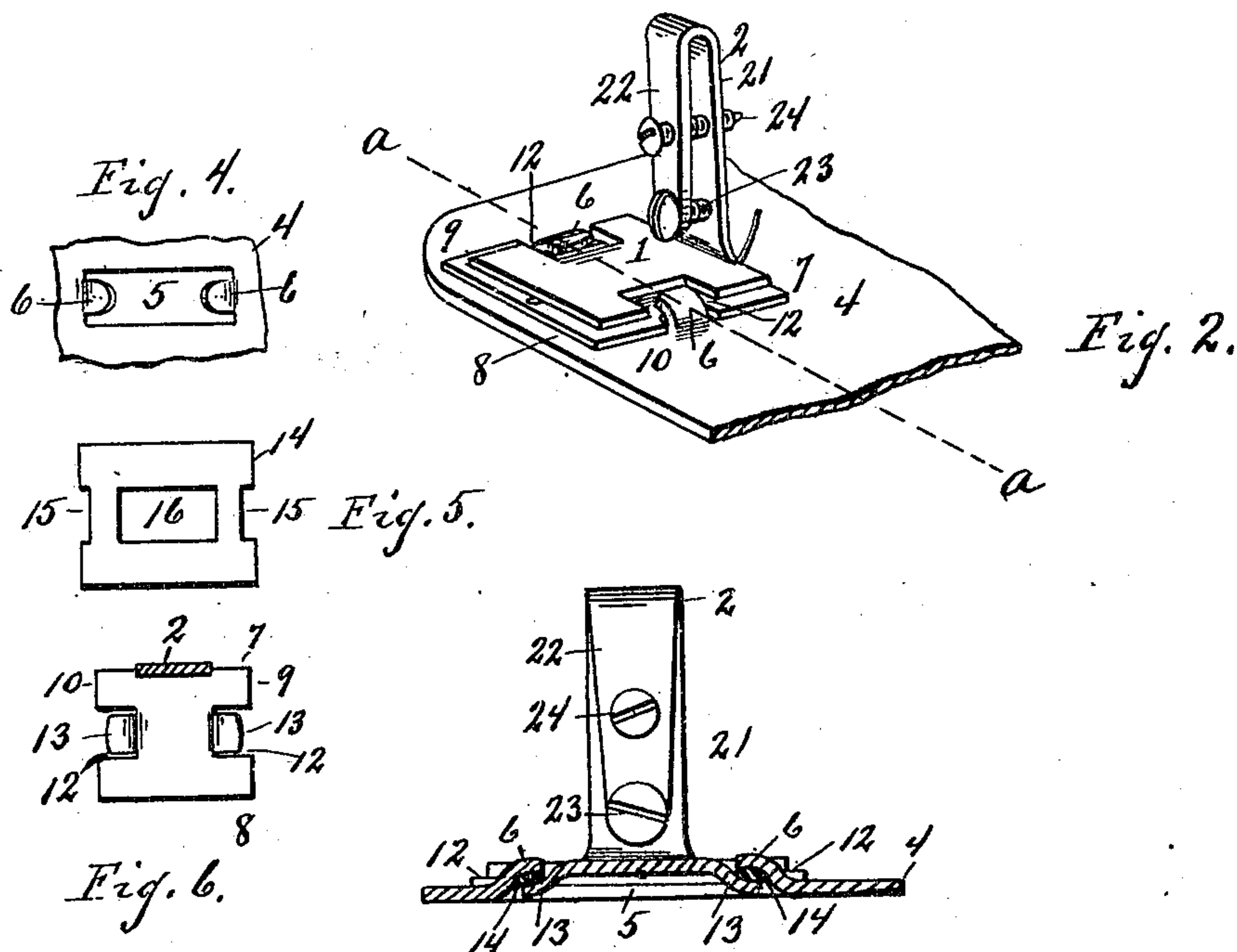
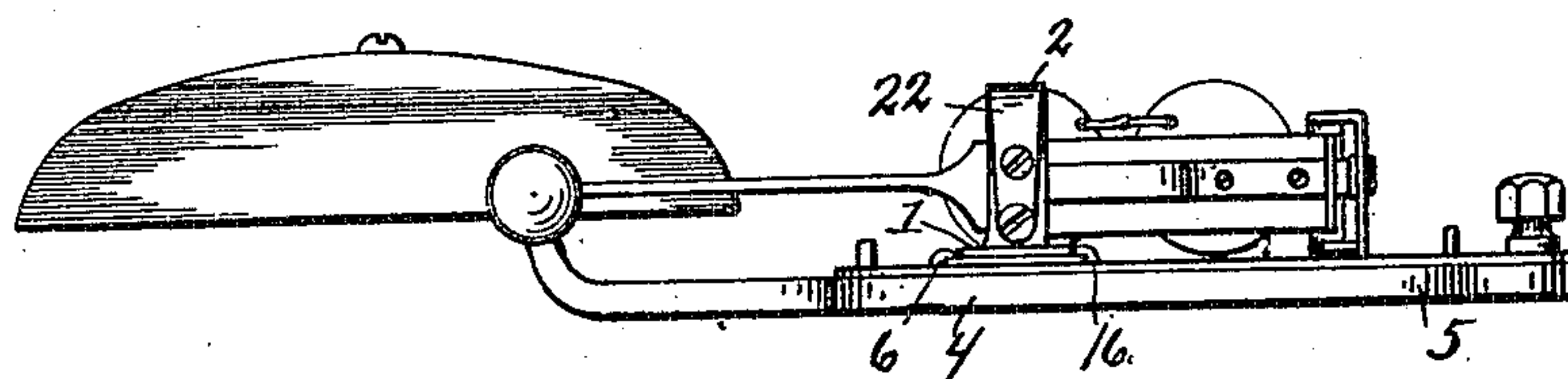


No. 837,675.

PATENTED DEC. 4, 1906.

H. W. EDEN.
ELECTRICALLY ACTUATED SIGNAL BELL.
APPLICATION FILED JULY 18, 1906.

Fig. 1.



WITNESSES

May E. Kott
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Fig. 3.

By

INVENTOR

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UNITED STATES PATENT OFFICE.

HAROLD W. EDEN, OF DETROIT, MICHIGAN, ASSIGNOR TO P. R. MANUFACTURING COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

ELECTRICALLY-ACTUATED SIGNAL-BELL.

No. 837,675.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed July 18, 1906. Serial No. 326,643.

To all whom it may concern:

Be it known that I, HAROLD W. EDEN, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Electrically-Actuated Signal-Bells; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to electrically-actuated signal-bells.

It has for its object an improved construction of the post which carries the point that coacts with the vibrating tongue to form the interrupter or vibrator of the bell.

In the drawings, Figure 1 is a side elevation showing the post in its position on the base. Fig. 2 is a perspective showing the post and its connection with a facing-plate on the base. Fig. 3 is a section through the pedestal of the post. Figs. 4, 5, and 6 are details of the parts used in constructing the pedestal.

The post is preferably made from stamped sheet metal and consists of a plate 1, from which there is an extension 2, bent at right angles to the body part of the plate, recurved to bring the outer half of it into substantially parallel relation with the half that is next to the base.

The projection, which I shall speak of as the "vertical" part, constitutes the post proper and has the part 21, which rises directly from the base, and the part 22, which is recurved to a position of substantially parallelism with the part 21, and these two parts are provided with suitable holes through which a jam-screw 23 engages, the hole through the part 22 being without threads. The adjustable contact-screw 24 passes through holes into two parts 21 and 22, both of which are threaded, and the screw is adjustable through these two holes and is held by the screw 23 as a jam-screw. The post is insulated and held to the facing-plate 4, which is a plate of sheet metal engaging against the base 5 by a construction shown in detail in Figs. 4, 5, and 6. In order to effectually secure the post to the facing-plate

4, a hole 5 is punched through the plate, leaving two ears or lugs 6 projecting from the sides or edges of the hole inward toward the center thereof. The pedestal 1, from which the vertical part is turned up, is rectangular in outline with a breadth from 7 to 8 greater than the width of the hole 5 and with the length from 9 to 10 shorter than the corresponding length of the hole 5. Notches 12 are cut in the ends of the pedestal and in each notch is a projecting lip 13. A piece of insulating material 14 is cut into substantially rectangular shape slightly longer than the hole 5 with notches 15 in the ends and the length from the bottom of one notch to the bottom of the other notch slightly less than the length of the hole 5. In width the base 14 is slightly greater than the width from 7 to 8 of the pedestal 1. These three parts are assembled by first bending the lugs 6 to spread them sufficiently to allow the insulating-piece 14 to be slipped under the lugs and over the surface of that part of the facing-plate 4 which immediately surrounds the hole 5. The lugs 13 on the pedestal 1 are bent together until this piece can be laid upon the piece 14, with the lug 13 engaging through the hole 16. The lugs are then bent back or pinched together, lug 6 being pinched toward lug 13, until the insulating material is tightly held between the adjacent lugs. When in this condition, the pedestal 1 of the post is held securely to the face-plate and nowhere touches it, but is insulated from it entirely by means of the interposed insulating material 14. If the lugs 13 are slightly narrower than the width of the hole 5 and the lugs 6 are somewhat narrower than the width of the notch 12, the insulating material bends or yields somewhat under the force employed to bend the lugs together, and the three parts are held together securely with no possibility or rocking or oscillating the one on the other on either horizontal or vertical axes.

What I claim is—

1. As a means of securing a post of sheet metal to a plate of sheet metal, in combination with a sheet of metal provided with a perforation and with inward-projecting lugs in said perforation, a post provided with a pedestal having notches in which the lugs on the plate may engage and with lugs in said

notches adapted to engage under the lugs on said plate, substantially as described.

2. As a means for engaging a post of sheet metal to a plate of sheet metal, with an interposed insulating material, the combination of a plate provided with a perforation, and inward-projecting lugs therein, a post provided with a pedestal notched and with lugs in said notches, a sheet of insulating material perforated and adapted to engage on

the surface of said plate and under the lugs thereon, and under said pedestal and over the lugs thereon, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HAROLD W. EDEN.

Witnesses:

LOTTA LEE HAYTON,
CHARLES F. BURTON.