

E. P. GRAY.  
SIGNAL BELL.  
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969,270.

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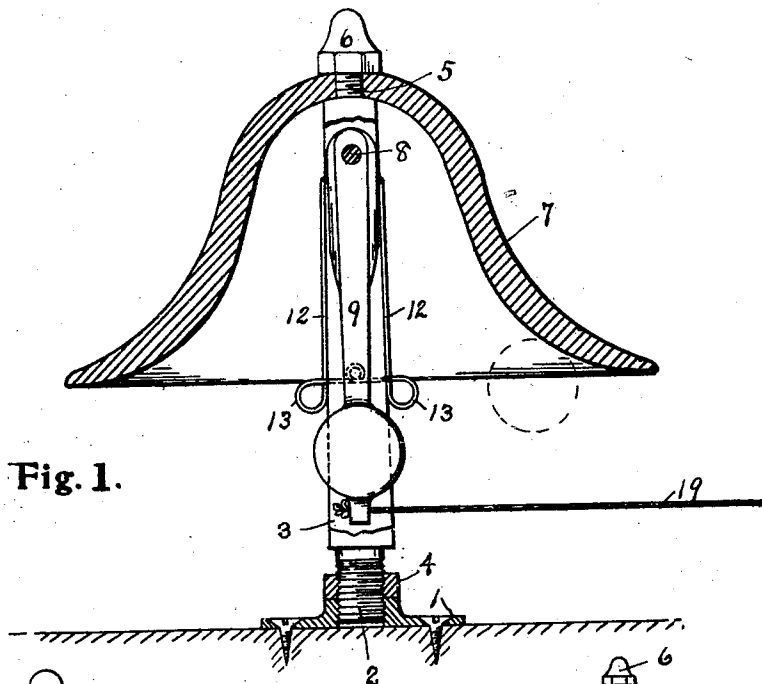


Fig. 1.

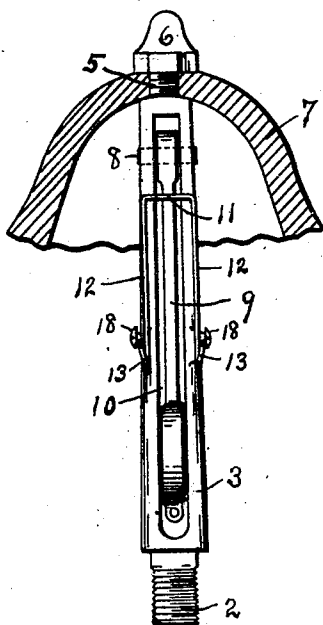


Fig. 2.

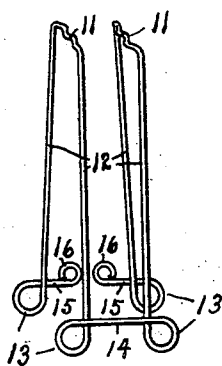


Fig. 4.

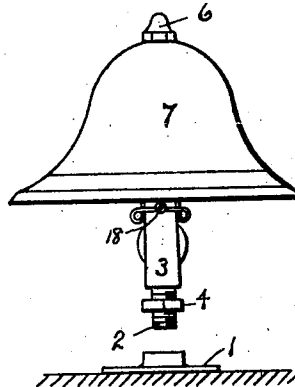


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

EMMET P. GRAY, OF DETROIT, MICHIGAN.

SIGNAL-BELL.

969,270.

Specification of Letters Patent.

Patented Sept. 6, 1910.

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*To all whom it may concern:*

Be it known that I, EMMET P. GRAY, a citizen of the United States, and residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Signal-Bell, of which the following is a specification.

This invention relates to means for giving audible signals and is embodied in a bell and supporting means for the same, and its prime object is to provide a bell-supporting device which can be quickly and easily attached and detached, and which shall comprise resilient means for holding the bell-tongue from swinging.

In the accompanying drawing, Figure 1 is a central vertical cross section of the bell and an elevation of its support, part of the support being broken away to show the tongue. Fig. 2 is an elevation of the support and a portion of the bell in cross section. Fig. 3 is an elevation of the bell and its support detached from the foot of the support. Fig. 4 is a perspective view of the spring.

Similar reference characters refer to like parts throughout the several views.

The bell illustrated in the drawing is especially adapted for use as a fog-signal and to be mounted on yachts and launches. Any desired device may be employed to secure it in position, that shown being a foot in the form of a hubbed disk 1, screw-threaded to receive the lower end 2 of the standard 3, the lock-nut 4 being adapted to secure the standard in position. By slacking up the nut, the standard becomes free to be unscrewed, and the bell and standard can be removed so that only the foot 1, which is secured to the deck or other part of the boat, can be stolen by sneak thieves.

Any desired means may be adapted to secure the bell in position. The upper end 5 of the standard may be reduced in size, and threaded to receive a nut 6 which holds the bell 7 on the standard. The standard is provided with a pivot pin 8 for the tongue 9, which preferably swings through a slot 10.

Resilient means are provided to prevent the tongue from swinging with the pitching of the boat, the standard preferably being so secured that the tongue must swing fore-and-aft, the tongue being normally held in the slot in the standard by the springs. Any type or number of springs can be provided,

that shown being a double spring formed of wire bent to form two upper cross pieces 11, the uprights 12 ending in loops 13. These loops on the one side of the standard are connected by the longitudinal bar 14, while on the other short ends 15 terminate in rings 16. The standard is preferably formed with grooves to receive the parts 14 and 15, and drilled and tapped for the screws 18.

To assemble the signal-bell, the tongue is placed in the slot 10 and the pin 8 introduced. The spring is positioned and a screw 18 is pushed through the rings 16 and screwed down. The bar 14 is then laid in its groove and the other screw 18 turned down. The bell is then positioned and locked in place by the nut 6. When the standard is secured to its foot, the signal can be sounded by the line 19 connected to the end of the tongue. A proper pull on the line will swing the tongue to the position shown in dotted lines in Fig. 1. Upon being released, the springs will return the tongue to the position shown in Fig. 1 but will prevent it swinging out on the other side far enough to contact with the bell.

Many details in the construction may be changed to suit circumstances without departing from the spirit of my invention.

Having now explained my construction, what I claim as my invention and desire to secure by Letters Patent is:—

1. In a signal-bell, the combination of a standard having a central longitudinal slot and having its lower end screw-threaded, a foot into which the standard may be screwed, a bell secured over said standard at its upper end, a tongue pivotally mounted in the slot in the standard, and resilient means to hold the tongue within said slot.

2. In a signal bell, the combination of a slotted standard, a bell secured over said standard at its upper end, a tongue pivoted to the standard near its upper end, and a spring mounted on said standard below the pivot of the tongue and extending upward and across both sides of the slot in the path of said tongue.

In testimony whereof I have signed this application in the presence of two subscribing witnesses.

EMMET P. GRAY.

Witnesses:

EDWARD N. PAGELSEN,  
ELIZABETH M. BROWN.