

P. C. ARNOLD.
BELL SUPPORT.
APPLICATION FILED NOV. 4, 1909.

956,664.

Patented May 3, 1910.

Fig. 1.

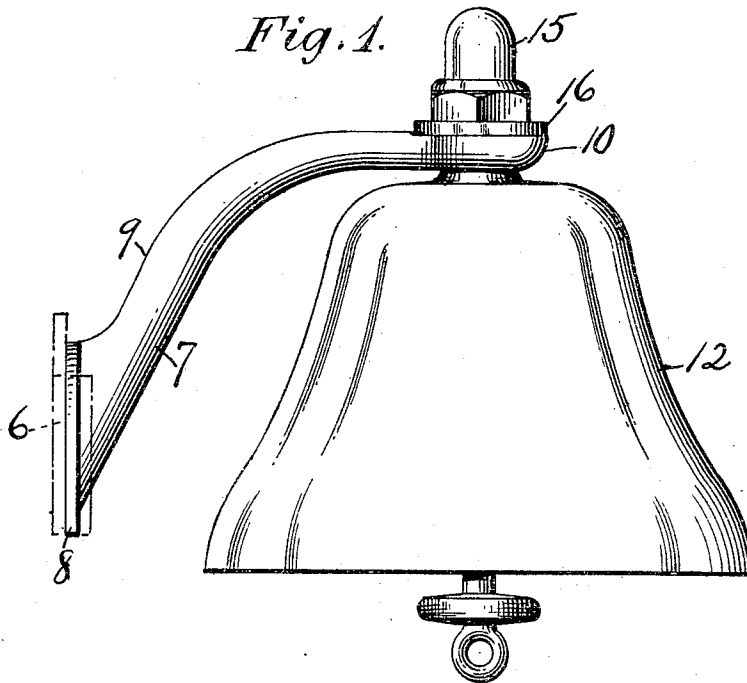


Fig. 3.

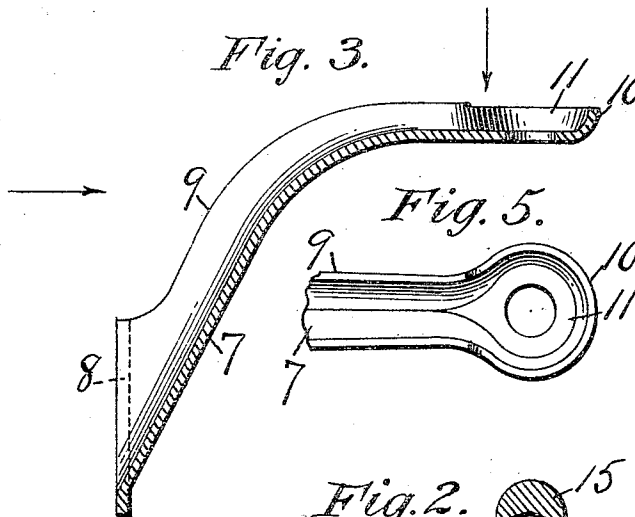


Fig. 4.

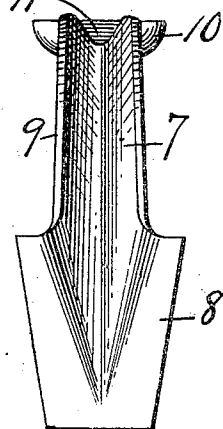


Fig. 5.

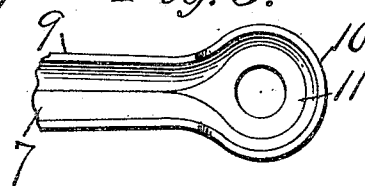
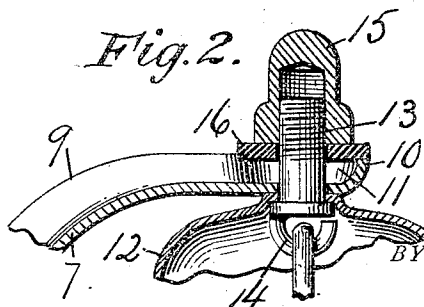


Fig. 2.



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BELL-SUPPORT.

956,664.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PHILIP C. ARNOLD, a citizen of the United States, and a resident of East Hampton, in the county of Middlesex and State of Connecticut, have invented a new and Improved Bell-Support, of which the following is a specification.

My invention relates more especially to that class of supports commonly used on shipboard to support a ship's bell, and the object of the invention among others is to provide a support of this class having numerous novel features of advantage and utility.

One form of support embodying in its structure the objects sought is illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of a support embodying my invention and showing a bell secured thereto. Fig. 2 is a view in section through an end of the support and the upper part of a bell, showing construction of the parts. Fig. 3 is a view in central lengthwise section through the support. Fig. 4 is a view of the support as seen from the rear. Fig. 5 is a top view of the end of the support to which the bell is secured.

A ship's bell is ordinarily considered an important article of equipment, and is usually placed in a conspicuous position, especially upon pleasure craft, and it is therefore essential that it shall be extremely slightly, as being an article in which much pride is taken. It consequently becomes important that the bell, and especially its support, shall be as light as possible consistent with the requisite strength and stability to firmly support the bell. These bells are usually placed on the deck of a vessel, and in order to avoid theft when the vessel is unguarded the support and its attached bell are commonly removably secured in position so that they may be easily detached and deposited in a place secure from the depredation of thieves. It therefore becomes essential that the device shall possess the qualities of lightness, and as the quarters, especially upon pleasure craft, in which articles may be deposited, are extremely limited, it further becomes important that the device shall be compact and occupy as little space as possible. A structure possessing these requisites and embodying the invention is

shown in the accompanying drawings, in which—

The numeral 6 denotes a socket-piece, shown in dotted outline in Fig. 1, usually constructed of metal and having a socket in which the end of a supporting arm 7 may be removably placed. This arm is composed of any suitable material, preferably metal struck up to shape, and having a foot 8 to fit the socket in the socket-piece. The metal of which this arm is composed is comparatively thin and light, and in order to provide the necessary strength it is of V-shape or similar form in cross-section, producing the sides 9 forming a groove between them which gives extreme rigidity to the arm. The arm is shaped to quite closely conform to the shape of the bell, its base or foot being located quite close to the rim of the bell. The supporting end 10 of the arm is enlarged, preferably circular in form and of dish-shape to provide the requisite strength, the groove in the arm extending into said recess 11. It will be seen that the arm, with its supporting end thus formed, while being extremely light is of sufficient strength to serve its purpose.

The bell 12 is secured in place by means of a bolt 13, the head of which is located in the bell and has a hook 14 from which the tongue is suspended. The bolt is secured in place by means of a threaded capped nut 15 which firmly clamps the bell between the head of the bolt and the under side of the arm.

In order that the parts for securing the bell shall possess the greatest strength I cause the pressure of the nut to be exerted upon the edge of the dish-shaped supporting end 10, and for this purpose I provide a rest 16 formed to correspond with the shape of the dish-shaped end 10 and of the same size, resting upon its edge and closing the recess 11. This rest has a hole at its center through which the bolt 13 extends. The rest and the nut are shown herein as composed of separate pieces, this being the preferred construction, but it is not essential to the invention that they be so formed.

The construction and arrangement of the rest provide an extremely strong attachment for the bell and at the same time produce a very slightly structure.

The construction herein shown and described is that preferred by me, but the details may be departed from more or less without avoiding the scope and intent of the invention.

I claim—

1. An arm having its end dish-shaped, a rest supported upon the edge of the dish-shaped part, a bolt projecting through the arm and rest, a bell supported by the head of the bolt, and a nut secured to the bolt against said rest.

2. An arm having a groove extending lengthwise thereof and with its end enlarged and of dish-shape, said groove extending into the recess formed by said dish-shaped end, a rest supported on the edge of said dish-shaped end, a bolt extending through said end and rest, a bell supported by the head of said bolt, and a nut secured to the bolt against said rest.

3. An arm having its end dish-shaped, a rest supported on the edge of said dish-shaped part, a bolt projecting through the arm and rest, a bell supported by the head

of the bolt, and a capped nut secured to and inclosing the end of the bolt and thrusting against said rest.

4. An arm having a groove extending lengthwise thereof and with its end enlarged and of dish-shape, the said groove extending into the recess formed by said dish-shaped end, a rest shaped to conform to the shape of said dish-shaped end and resting upon its edge and closing the upper part of the recess therein, a bolt extending through the arm and rest, a bell supported by the head of the bolt, and a capped nut secured to and inclosing the end of the bolt and thrusting against said rest.

5. An arm having its end dish-shaped, a rest located against the edge of said dish-shaped part, a bolt projecting through the arm and rest, a bell supported by the head of the bolt, and a nut engaging the bolt to secure the bell in position.

PHILIP C. ARNOLD.

Witnesses:

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