H. FILIEWICZ.

SUNKEN SHIP SIGNAL.

APPLICATION FILED APR. 19, 1917.

1,253,583.

Patented Jan. 15, 1918.

2 SHEETS—SHEET 1.

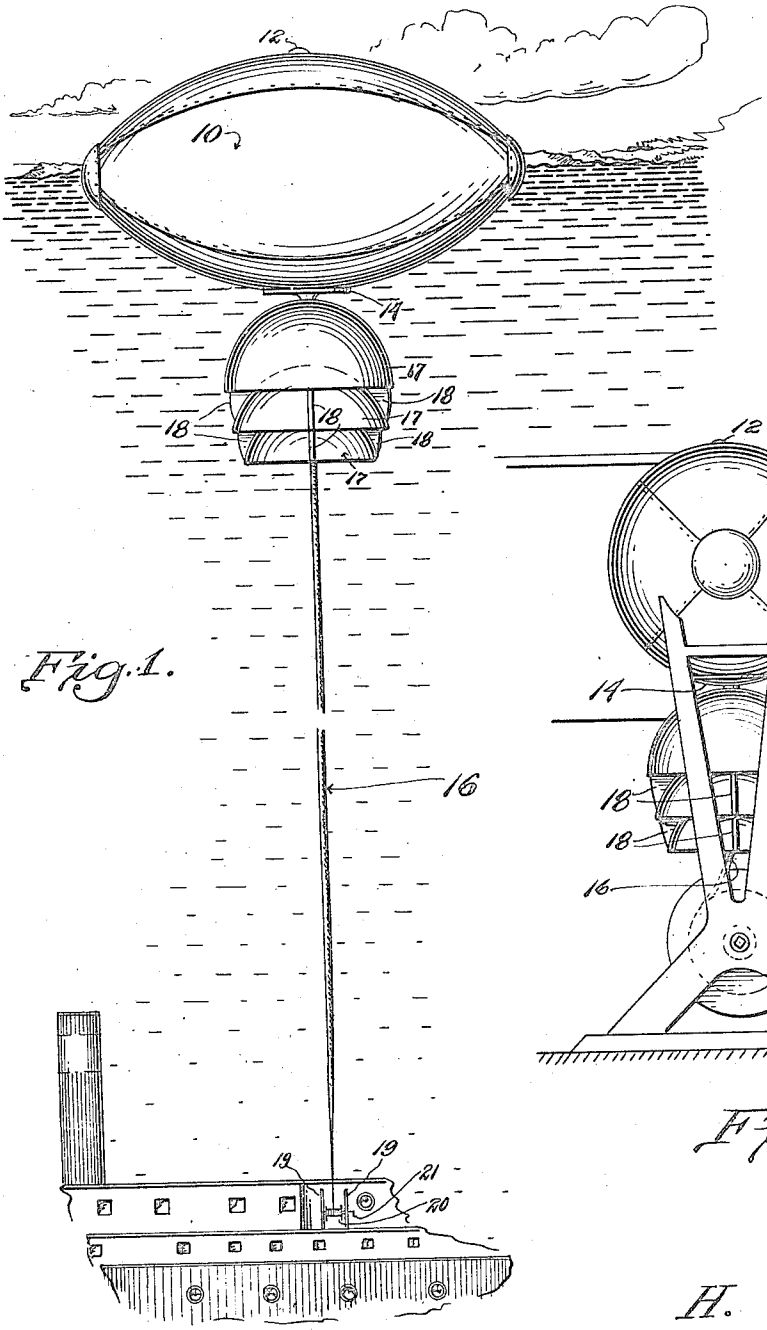


Fig. 1.

Fig. 2.

Witnesses

M. H. Zbierajewski

Inventor

H. Filiewicz

By R. Morgan Elliott & Co.

Attorneys

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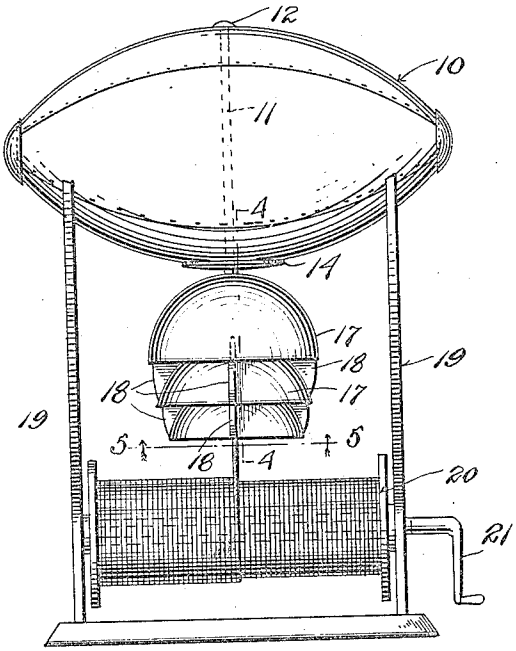
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2 SHEETS—SHEET 2.

Fig. 3.



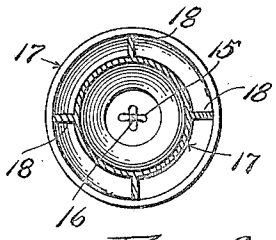
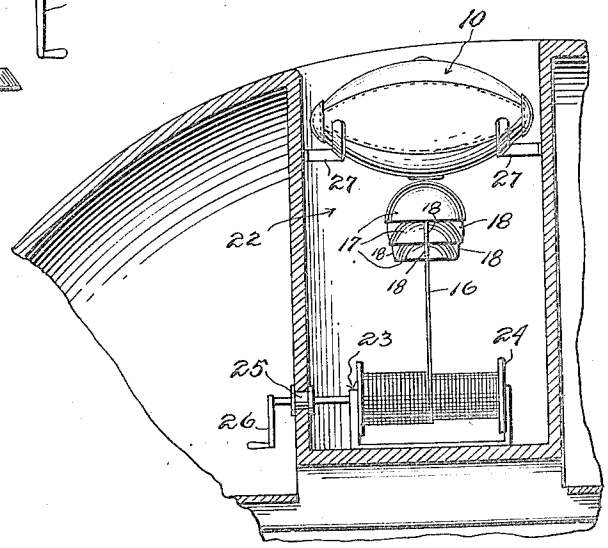


Fig. 6.

Fig. 7.



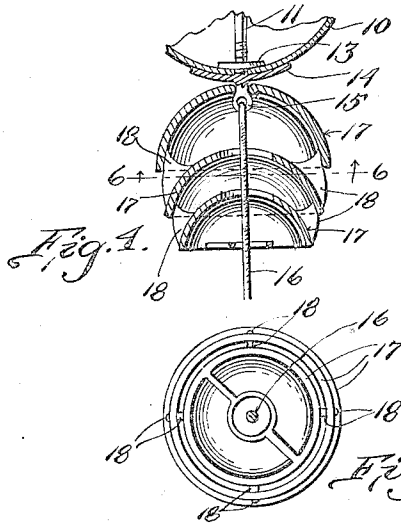


Fig. 1.

Fig. 5.

Witnesses

MacCartee & Co.

M. W. Zbierajewski

Inventor

H. Filiewicz

By R. Morgan Elliott & Co.

Attorneys

UNITED STATES PATENT OFFICE.

HARRY FILIEWICZ, OF ABERDEEN, WASHINGTON.

SUNKEN-SHIP SIGNAL.

1,253,583. Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed April 19, 1917. Serial No. 163,253.

To all whom it may concern:

Be it known that I, HARRY FILIEWICZ, a subject of the Emperor of Austria, residing at Aberdeen, in the county of Grays Harbor and State of Washington, have invented certain new and useful Improvements in Sunken-Ship Signals, of which the following is a specification.

This invention relates to signals and has special reference to a sunken ship signal adapted to indicate the position of ships which have sunken.

More particularly, the invention relates to a stabilizing device for signals of this description.

One important object of the invention is to improve the general construction of signals for sunken ships, the improvement residing in a peculiar stabilizing arrangement for such ships.

A second important object of the invention is the provision of an improved stabilizing device adapted for use in connection with sunken ship signals.

With the above and other objects in view, as will be hereinafter apparent the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—

Figure 1 is a side elevation of the device showing its application, to a sunken ship, the scale of the ship being reduced in order to better bring out the details of the device.

Fig. 2 is an end view of the signal and its holding frame in position on a ship's deck.

Fig. 3 is a side elevation of the device in the position shown in Fig. 2.

Fig. 4 is a detail section on the line 4—4 of Fig. 3.

Fig. 5 is a detail section on the line 5—5 of Fig. 3.

Fig. 6 is a detail section on the line 6—6 of Fig. 4.

Fig. 7 is a detail view of a portion of a submarine showing the manner of applying the device thereto.

In the embodiment of the invention herein illustrated the signal consists of a hollow ovate float 10 through which passes a rod 11 riveted on top of the float as at 12 and having on its lower portion a washer 13 inside of the float and a similar washer 14 outside of the float so that the material of the float, being clamped between the washers 13 and 14, leakage will be prevented around the rod 11. On the lower end of the rod 11 is an eye 15 to which is attached a cable 16. Between the eye 15 and the washer 14 there is secured the upper end of a stabilizing device which consists of a series of bells 17 opening downward and decreasing in diameter from top to bottom, the bells being connected one to the other by means of fins 18 which project below the upper edge of each bell so that portions of these fins appear on the outer surface of the lower bells where the water can act upon them.

In the form of the device shown in Figs. 1, 2 and 3 a frame consisting of standards 19 forked at their upper ends for the reception of the ends of the float 10 is provided. Journaled in these standards is a drum 20 around which is wound the cable 16, the drum being capable of being wound up by a handled crank 21. In the form of the device shown in Fig. 7 there is provided in the body of the submarine a well 22 wherein is located a frame 23 having a drum 24 rotatably mounted therein, the shaft of the drum passing through a stuffing box 25 and having a crank handle 26 on its end within the body of the submarine. In the upper part of the well 22 are provided cradle members 27 wherein the float 10 normally rests.

In operation, when the vessel sinks the float 10 will remain on top of the water as indicated in Fig. 1. Now, by reason of the bells 17 and fins 18 jerking on the cable 16 will be greatly reduced since the bells prevent violent vertical movement of the float under the influence of waves while the fins 18 prevent twisting of the float, and consequently of the cable and also prevent lateral swaying of the float. Thus there is at no time danger of twisting of the cable or jerking on it until it breaks.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that many minor changes may be made in the form and construction of the invention without departing from the material principles thereof. It is not therefore desired to confine the invention

to the exact form herein shown and described but it is wished to include all such as properly come within the scope claimed.

Having thus described the invention, what is claimed as new is:—

1. A stabilizing device for floating objects consisting of a series of bells opening downwardly and connected to each other, circumferentially spaced fins projecting downward from the inner edge portions of the upper bells.

2. The combination with a hollow float, of a rod extending through said float and having an eye at its lower end, and a stabilizing device mounted on the lower end of said rod between the eye and the float and consisting of a series of bells opening downwardly and decreasing in size from above downward, the upper bells being connected to respective lower bells by circumferentially spaced fins extending downward from the inner edge portion of each upper bell on to the outer edge portion of respective lower bells.

In testimony whereof I affix my signature.

HARRY FILIEWICZ.

Witnesses:
W. T. MORRIS,
S. K. BOWES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."