R. L. HOLMAN.

WHISTLE.

APPLICATION FILED MAR. 21, 1911.

1,047,890.

Patented Dec. 17, 1912.

Fig. 1

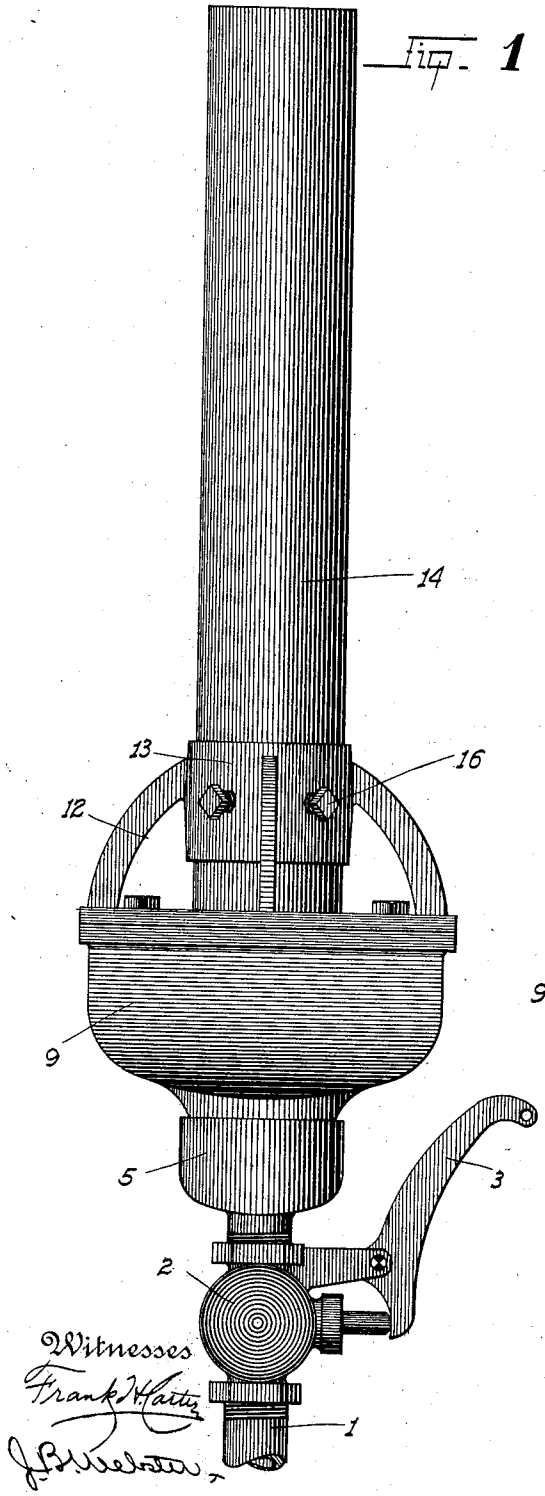
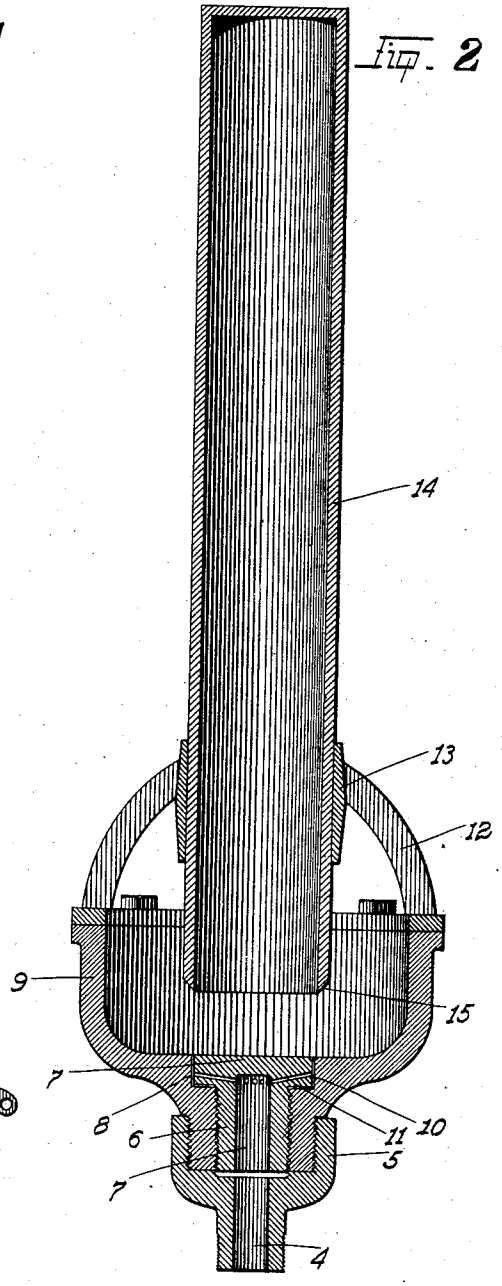


Fig. 2



Witnesses

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REUBEN L. HOLMAN, OF STOCKTON, CALIFORNIA, ASSIGNOR TO E. E. GROSS, OF STOCKTON, CALIFORNIA.

WHISTLE.

1,047,890. Specification of Letters Patent. Patented Dec. 17, 1912.

Application filed March 21, 1911. Serial No. 615,949.

To all whom it may concern:

Be it known that I, REUBEN L. HOLMAN, a citizen of the United States, residing at Stockton, in the county of San Joaquin, State of California, have invented certain new and useful Improvements in Whistles; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in whistles of all kinds and particularly to compressed air whistles used for boats, launches and similar conveyances, the object of the invention being to produce a whistle in which an invariable sound can be produced regardless of the amount of air pressure and also one in which the resounding bell can be adjusted at such a point as will give the desired sound or such invariable one as will be most effectual.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects, I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claim.

In the drawings, similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of the complete whistle. Fig. 2 is a sectional view of the upper portion of the whistle showing the resounding bell and supporting cup.

Referring now more particularly to the characters of reference on the drawings 1 designates a pipe leading to the air supply.

2 is the usual valve and 3 is the operating lever for the valve.

4 designates a pipe or port leading from the valve 2 and having an upper threaded sleeve 5 threaded into which is the air deflecting cup 9 having a central recess 8, there being a threaded nipple 6 screwed into the member 9 and having a port 7 adapted to register with the port 4. On the upper end of the nipple 6 is a cross head 7 disposed in the recess 8 and having its sides spaced apart, the sides of said recess 8 forming a small air escape channel 10 while 11 are small passages leading from the port 7 into said channel 10.

Secured to the top of the cup 9 is a cage 12 holding a collar 13 into which projects the resounding bell or drum 14 the lower edge 15 of said member 14 being beveled and positioned directly above the air escape channel 10 whereby the air strikes directly against said beveled edge to produce the invariable sound. In order to make this sound invariable and fixed according to the quantity of air pressure, the member 14 is slidable in the collar 13 and can be fixed in any desired position by means of set screws 16 projecting through said collar 13 and impinging against said bell 14. This structure does away with center posts for supporting the bell which are now used and which cause the sound to be diminished; and, furthermore, with a fixed bell having such position, the sound of the whistle is often diminished according to the diminishing of the air pressure which gives a variable sound which is a great detriment when the whistles are used on boats or launches where a similarity to each whistle is very essential in order to properly give signals etc.

From the foregoing description it will readily appear that I have produced such a whistle as substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

A device of the character described comprising a pipe, a threaded sleeve on the upper end of said pipe, a cup having a screw threaded portion mounted in said sleeve, said cup having a central threaded orifice, a threaded nipple screwed into said threaded orifice and having a central orifice adapted

to register with said pipe, a cross-head on said nipple, the sides of said cross-head being spaced from the sides of said cup forming an air space, a plurality of ports in said cross-head communicating from the orifice in said nipple to said air space, an inverted bell adjustably mounted on said cup and having a beveled lower edge, the point of said beveled edge being disposed in direct alinement with said air space, as described.

In testimony whereof I affix my signature in presence of two witnesses.

REUBEN L. HOLMAN.

Witnesses:

JOSHUA B. WEBSTER,

FRANK H. CARTER.