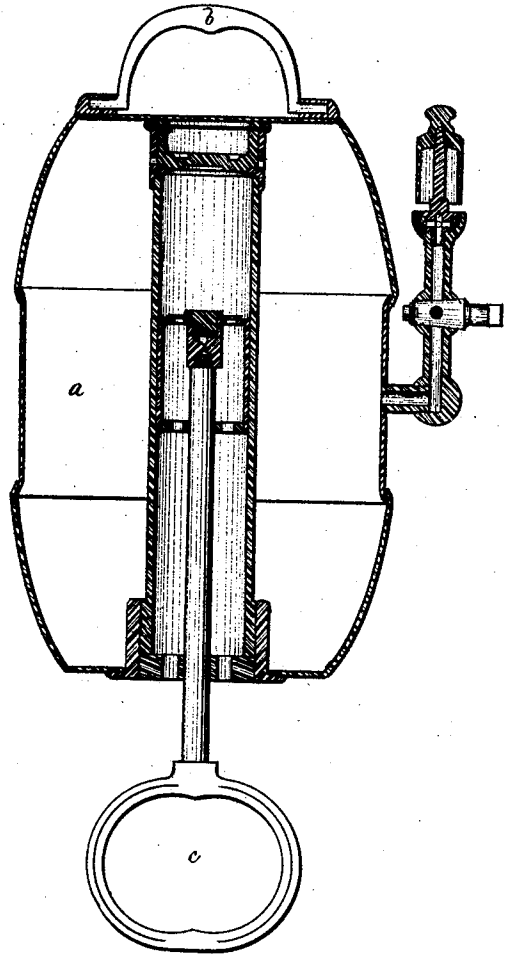
J. F. Haskins,

Nautical Alarm.

No. 110,036. Patented Dec. 13. 1870.



John F. Haskins
by his attys.
Crosby, Halsted & Gould

Witnesses
S. B. Kidder.
M. W. Frothingham.

United States Patent Office.

JOHN F. HASKINS, OF FITCHBURG, MASSACHUSETTS.

Letters Patent No. 110,036, dated December 13, 1870.

IMPROVEMENT IN NAUTICAL ALARMS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN F. HASKINS, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented an Improved Portable Pneumatic Alarm or Signal Apparatus; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

This invention relates to a portable apparatus for giving alarms or signals, to be used for various purposes and on various occasions, as on shipboard during a fog, for police use, for alarms by private watchmen and families, for signals and alarms by track-repairers and others connected with railroads, &c.

It consists in the combination of an air-condensing pump within an air-reservoir, and a whistle or other device capable of emitting loud sounds, produced by vibrations caused by escape of a current of compressed air, the elements of the combination being arranged so as to make a portable whole, in which by relative movement between the compressing piston and air-receiver, air is compressed and stowed in the receiver in readiness to sound an alarm or signal whenever, by operating a cock or valve, the whole or a portion of the compressed and stored air is allowed to escape, and is directed upon any suitable attached vibrator.

An embodiment of this invention is illustrated in the drawing, which is a central longitudinal section of my improved apparatus, showing the parts beyond the sectional plane in elevation.

a is a receiver, made air-tight, of strong thin metal, and containing an air-pump, like one described in detail in the specification and drawing of an application for United States Letters Patent, executed by me September 24, 1870, said pump having its longitudinal axis in the longitudinal axis of the receiver *a*.

The receiver is provided at its top with a handle, *b*, by which it may be conveniently carried.

The piston of the air-pump is provided with a piston-rod, to the end of which a loop or stirrup *c* is fixed, so that when a person places one foot in the stirrup the operation of working the pump to compress air into the receiver may be performed by moving the receiver up and down, by means of the handle *b*, until air shall be condensed in the receiver to any required degree.

While I have shown at the right of the drawing a common whistle, such as is used for producing sounds by currents of steam ordinarily, and a common cock for controlling communication between the whistle and the reservoir *a*, it will be obvious that other forms of vibrators and valves or cocks might be employed.

The form of the receiver is not material, so long as it contains the air-pump, and is portable; for example, the flagstaff of a signal-man may be the receiver, having at the top a flag, and near it the whistle, while in the bore of the staff, which in such case is hollow and of thin metal, is located the pump.

One object of locating the air-pump within the receiver or reservoir is to save space, and fully protect it from accidents to which it would be liable if placed on the outside of the reservoir.

I claim—

Combined in portable form, a reservoir, an air-pump located within said reservoir, a vibrator, and means for controlling the passage between it and the reservoir, arranged as shown, and for the purpose set forth.

JOHN F. HASKINS.

Witnesses:

FRANCIS GOULD,

S. B. KIDDER.