

R. BERRENBURG.
 CONVERTIBLE WHISTLE AND FOG HORN.
 APPLICATION FILED JULY 12, 1909.

987,038.

Patented Mar. 14, 1911.

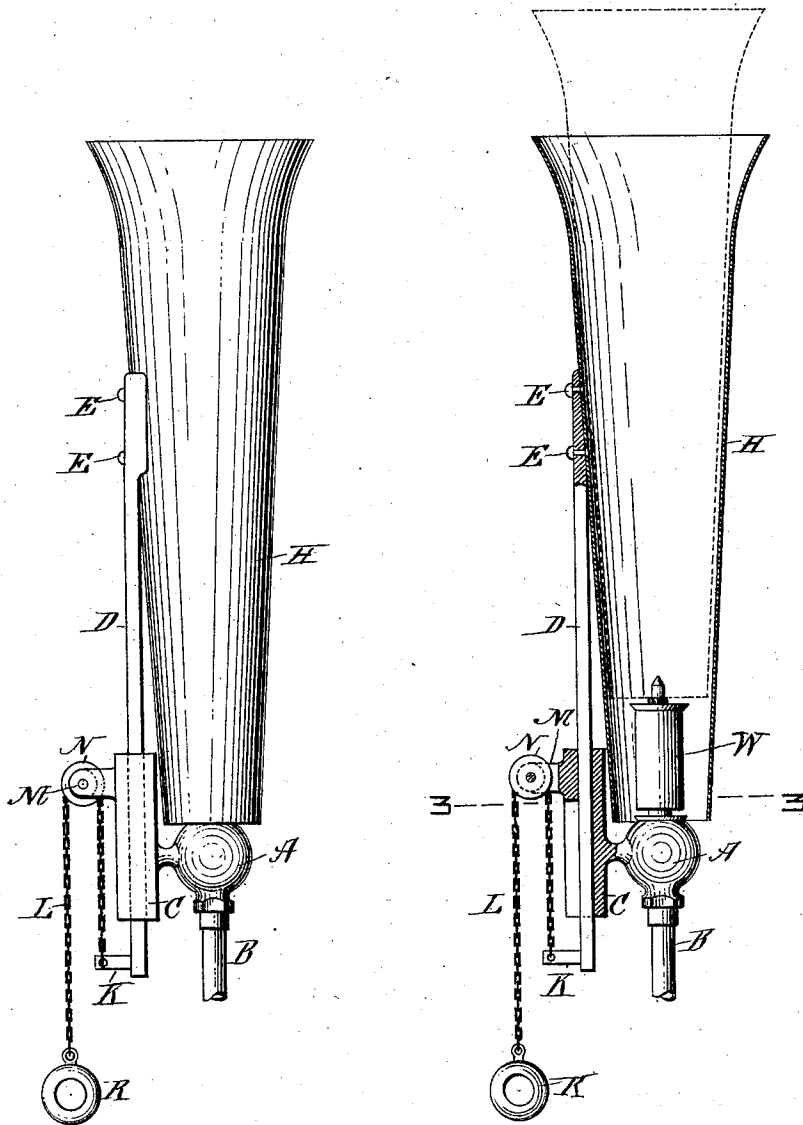


FIG. 1.

FIG. 2.

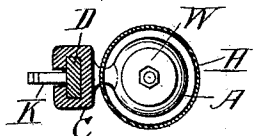


FIG. 3.

WITNESSES:

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CONVERTIBLE WHISTLE AND FOG-HORN.

987,038.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed July 12, 1909. Serial No. 507,248.

To all whom it may concern:

Be it known that I, REINOLD BERRENBURG, a citizen of the United States, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Convertible Whistles and Fog-Horns, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to a sounding apparatus to be operated either by steam or air, and consists in attaching to a blast or power whistle an adjustable horn whereby the whistle may be sounded, giving its normal sound as a whistle or, by the simple movement of an attached horn, the whistle sound will be converted to a fog-horn sound.

The object is to construct a single compact instrument that is readily changed so as to give the whistle sound or the fog-horn sound. This object I attain by the mechanism shown in the accompanying drawings, in which—

Figure 1 shows my invention in elevation. Fig. 2 shows the same partly in elevation and partly in vertical section. Fig. 3 is a cross-section taken on line 3—3 of Fig. 2.

In the drawings A represents the body part of the power whistle, B the air or steam supply pipe and W the bell of the whistle.

C is a way-piece attached to the body part, A, of the whistle and has a "way" formed in it for the reception of the sliding rod, D, as shown. The said sliding rod is attached at its upper end to the horn, H, by rivets E and has at its lower end an arm K to which a chain, L, is connected; this chain passes over a wheel N, hung in an arm M which extends from the way piece, C. At the lower end of the chain L, a ring, R, or other convenient handle is attached.

When it is desired to use the device as a fog-horn the horn part, H, is in the position shown in full lines, but when the whistle alone is to be sounded, the user, by pulling on the chain, L, will cause the rod, D,

to lift the horn, H, up to the position occupied by the dotted lines in Fig. 2; thus the lower end of the horn will be above the whistle and the whistle sound alone will be given.

In case it is desired to give a message, the Morse alphabet may be used; *i. e.*, the horn sound may be adopted for the "dash" and the whistle sound for the "dot" and any message may be communicated in the same manner that a telegraph message is sent. In which case the operator must, of course, be able to read by sound. For telegraphing, this device will be much better than the whistle alone or the horn alone as with this device the sound of the horn will always mean a "dash" and the sound of the whistle will always mean a "dot" whether the sounds are short or long they cannot be misunderstood. It is obvious that the whistle sound may be used for the "dash" and the horn for the "dot" if agreed upon.

If there is no power for supplying air or steam, a hand apparatus may be used for supplying air under pressure.

Claim:

1. A convertible whistle and fog-horn, comprising a power whistle, a horn-shaped tube in substantially longitudinal alinement with said whistle, and mechanism attached to both the whistle and tube whereby the said tube may be moved axially into or out of coöperative relation with said whistle, substantially as and for the purpose set forth.

2. A convertible whistle and fog horn, comprising a power whistle, a horn, and means whereby the horn and whistle may be moved longitudinally relatively to one another whereby the horn may be placed in or out of coöperative relation with the whistle.

3. A convertible whistle and fog horn, comprising a power whistle, a horn in substantially axial alinement with said whistle, and means for moving the horn longitudinally toward and away from the whistle,

whereby when the horn is moved beyond the
sounding end of the whistle the whistle
sound alone is given, and when the horn
surrounds the sounding end of the whistle
5 the fog horn is sounded.

In testimony whereof, I have signed my
name to this specification in the presence of

two subscribing witnesses, on this eighth
day of July A. D. 1909.

REINOLD BERRENBURG.

Witnesses:

FRANK G. PARKER,
JOHN BUCKLER.

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