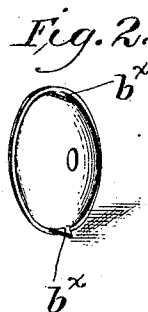
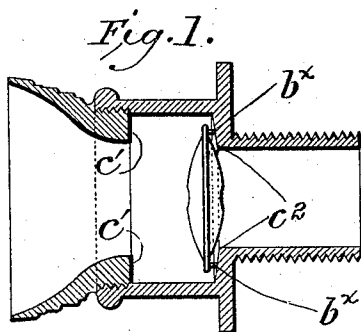


(No Model.)

W. N. ROSS.
MOUTH PIECE FOR SPEAKING TUBES.

No. 466,140.

Patented Dec. 29, 1891.



Witnesses
Chas. Bush
W. Alex. Robinson

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By *John Jolley*
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UNITED STATES PATENT OFFICE.

WILLIAM H. ROSS, OF CAMDEN, NEW JERSEY, ASSIGNOR OF ONE-HALF TO
WILLIAM BRYANT, OF PHILADELPHIA, PENNSYLVANIA.

MOUTH-PIECE FOR SPEAKING-TUBES.

SPECIFICATION forming part of Letters Patent No. 466,140, dated December 29, 1891.

Application filed April 21, 1891. Serial No. 389,855. (No model.) Patented in Germany March 31, 1891, No. 19,257; in England March 31, 1891, No. 5,571; in France March 31, 1891, No. 199,301, and in Belgium March 31, 1891, No. 71,031.

To all whom it may concern:

Be it known that I, WILLIAM H. ROSS, of Camden, in the county of Camden, State of New Jersey, have invented certain new and useful Improvements in Mouth - Pieces for Speaking-Tubes, of which the following is a specification, due reference being had to the accompanying drawings, which illustrate my invention and form part hereof.

The object of my present invention is to avoid the blocking of the passage to the tube by the whistle assuming a vertical position at the rear of its chamber by reason of excessive air-pressure applied through the near mouth-piece to the tube to sound a call or alarm at the far end of the tube, and to at all times insure a free or comparatively free passage for an applied air-current, for the purpose set forth; and to the end sought it consists of the construction, combination, and arrangement of parts shown in the drawings, and hereinafter particularly described and claimed.

Figure 1 represents the forced vertical position of the whistle to the rear of its chamber when an excessive air-pressure is applied through the near mouth-piece proper to the tube for the purpose of sounding a call or alarm at the far mouth-piece, and showing prongs or projections on the whistle abutting against the rear shoulder of its chamber and preventing the blocking of the passage to the tube and insuring space about the whistle for the passing of the applied air-current to the tube to accomplish its purpose; and Fig. 2 is a perspective view of the whistle removed from its chamber.

In the drawings, A is the mouth-piece, and a the mouth-piece proper.

B is the whistle of the common and well-known type employed in mouth-pieces for speaking-tubes, and b^x are prongs or projections on said whistle, for a purpose presently set forth.

C is the chamber, it being preferably a cylindrical shell and having the shoulders c' c^2 on its inner surface at its ends. The diameter of the chamber C is of size slightly in excess of the diameter of the whistle B, and the diameter of the latter is of size slightly in excess of the diameter of the passage-ways a^x and c of the mouth-piece.

The whistle is placed within the chamber with its pronged side toward the rear thereof, and when by reason of excessive air-pressure applied through the near mouth-piece proper toward the tube the whistle is forced to assume a vertical position at the rear of its chamber the prongs thereon abut against the shoulder c^2 of the chamber and hold it off therefrom sufficiently far to effectually prevent the blocking of the passage-way c to the tube and allow ample space about the whistle for the escape or passing of the applied air-current to the tube.

It will be understood that the prongs or projections on the whistle may be conveniently formed or struck up with one of the shells of the whistle and caused to assume a position at right angles with the body of the whistle in final construction, as shown in the drawings, or they may be pins or the like soldered or otherwise fixed to and forming a part of the whistle to the same end.

Having thus described my invention, I claim—

In mouth-pieces for speaking-tubes of the character herein described, a valve or whistle located therein free of any attachment thereto and provided on one side with one or more prongs or projections, as and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 28th day of October, A. D. 1890.

WM. H. ROSS.

In presence of—

JOHN JOLLY, Jr.,

W. ALEX. ROBINSON.