

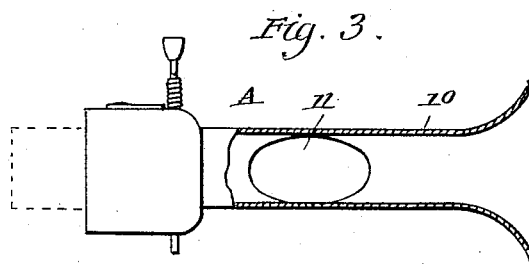
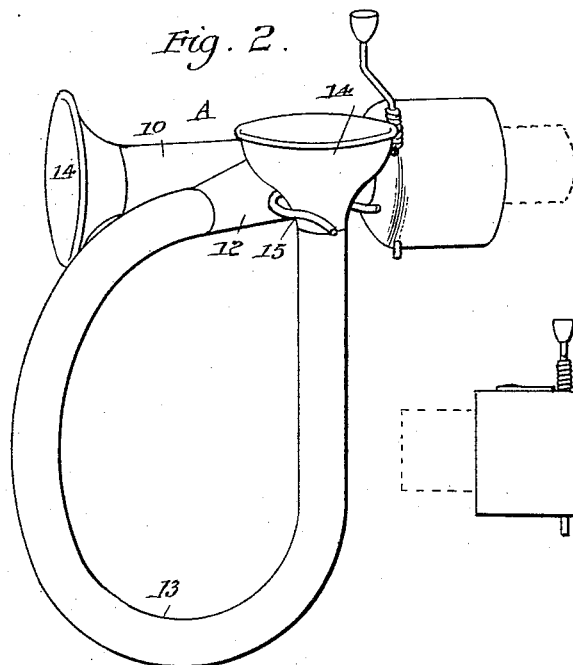
(No Model.)

F. SCHLÜCHTNER.

COMBINED SPEAKING TUBE AND EARIPHONE.

No. 453,919.

Patented June 9, 1891.



WITNESSES:

L. Sedgwick
E. M. Clark

INVENTOR:

F. Schlüchtner

BY

Munn
ATTORNEYS

UNITED STATES PATENT OFFICE.

FREDERIC SCHLÜCHTNER, OF BROOKLYN, NEW YORK.

COMBINED SPEAKING-TUBE AND EARIPHONE.

SPECIFICATION forming part of Letters Patent No. 453,919, dated June 9, 1891.

Application filed December 3, 1890. Serial No. 373,466. (No model.)

To all whom it may concern:

Be it known that I, FREDERIC SCHLÜCHTNER, of Brooklyn, in the county of Kings and State of New York, have invented a new and
5 Improved Combined Speaking-Tube and Eariphone, of which the following is a full, clear, and exact description.

My invention relates to an improvement in speaking-tubes, and has for its object to provide the mouth-piece thereof with an attached
10 ear-piece, whereby messages may be more conveniently received and transmitted than heretofore.

The invention consists in the novel construction and combination of the several
15 parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification,
20 in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a mouth-piece and the attachment, illustrating the application thereof. Fig. 2 is a perspective view
25 of the mouth-piece and attachment, the latter being shown as hung up out of the way; and Fig. 3 is a partial longitudinal section through the mouth-piece.

30 The mouth-piece A may be of any well-known construction. The tube 10, however, in front of the whistle is provided at one side with an opening 11, which opening is surrounded by a tube 12, which tube stands at an
35 angle, preferably less than a right angle, to the main tube 10 of the mouth-piece, as is best shown in Figs. 1 and 2. The tube 12 is also preferably made tapering—that is, the

outer end is narrower than the inner end—and in practice it is preferred that the area
40 of the opening 11 should be fully as great as the diametrical area of the tube 10.

To the outer or contracted end of the branch tube 12 a flexible tube 13 is secured, said flexible tube being provided at one extremity with
45 an ear-cup 14 of any approved construction. The branch tube 12 is provided with a fork or clamp 15, which fork is adapted to receive and support the ear-cup 14 when the mouth-piece is not in use.
50

It will be observed that the branch tube 12 is located between the whistle 9 and the mouth-piece, so that when a person blows into the speaking-tube the air entering the inner end
55 of the tube 10 will exert its full force on the whistle and not be diverted by the branch pipe. The whistle 9 may be of any desired construction, and has an operating-handle exterior to the tube and is closed by a spring on
60 the handle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A speaking-tube mouth-piece 14, having a tube 10, provided with a whistle 9, a branch
65 tube 12, projecting at an angle from the tube 10 between the whistle and mouth-piece, a flexible tube 13, connected to said branch and having an ear-cup 14 on its outer end, and a forked holder 15, projecting from the branch
70 to receive and support the ear-cup, substantially as set forth.

FREDERIC SCHLÜCHTNER.

Witnesses:

J. FRED ACKER,
C. SEDGWICK.