C. SCHANANDOAH.

MEGAPHONE.

APPLICATION FILED DEC. 19, 1911.

1,040,775.

Patented Oct. 8, 1912.

Fig. 2.

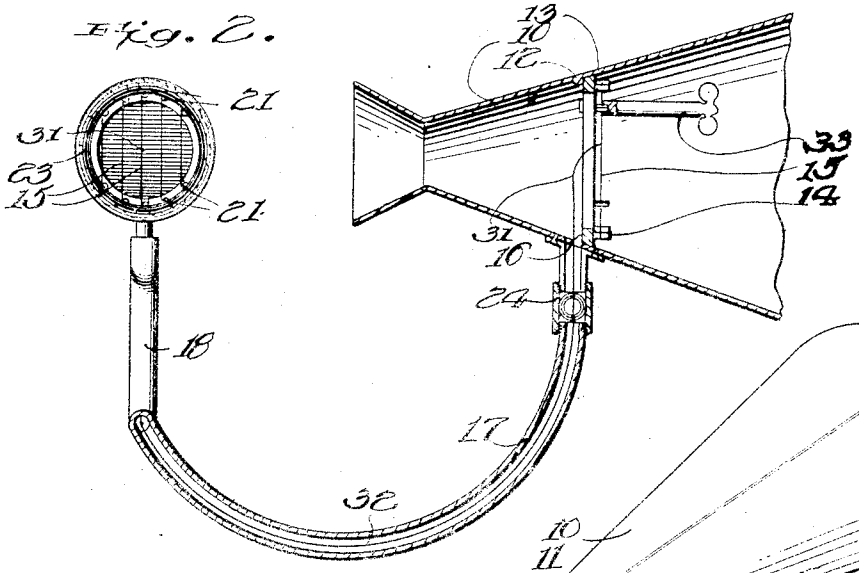


Fig. 7.

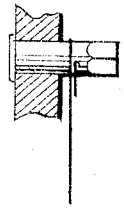


Fig. 1.

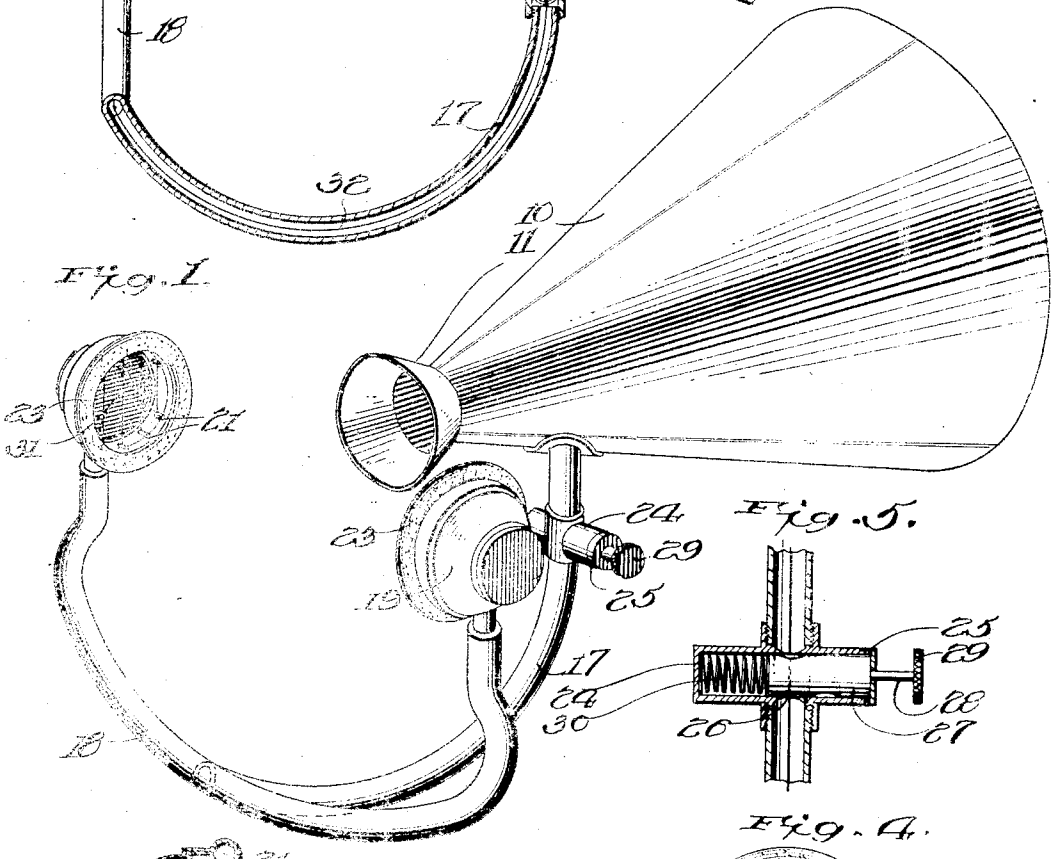


Fig. 5.

Fig. 3

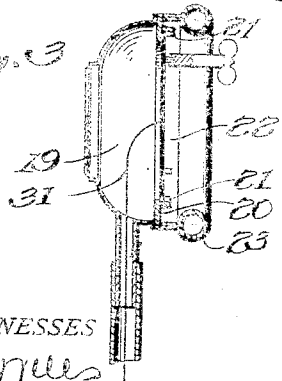


Fig. 6

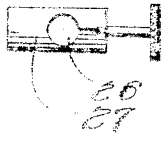
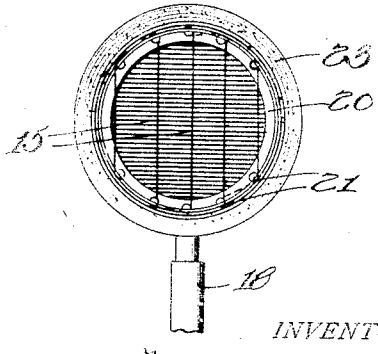


Fig. 4.



WITNESSES

J. M. Mills

L. N. Gillis

INVENTOR

Chapman Schanandoah

By E. F. Thomas Jr. Attorney.

UNITED STATES PATENT OFFICE.

CHAPMAN SCHANANDOAH, OF NORFOLK, VIRGINIA.

MEGAPHONE.

1,040,775. Specification of Letters Patent. Patented Oct. 8, 1912.

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To all whom it may concern:

Be it known that I, CHAPMAN SCHANANDOAH, a citizen of the United States, residing at Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Megaphones, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to megaphones and has special reference to a megaphone having an attachment whereby sound waves may be caught so that the device can be used as an audiphone.

The principal object of the invention is to improve the general construction of devices of this character.

A second object of the invention is to provide a device of this character with certain wiring arrangements to assist in the collection and reproduction of the sound waves.

With the above and other objects in view, the invention consists in certain novel constructions, arrangements and combinations of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and Figure 1 is a perspective view of a device constructed in accordance with this invention. Fig. 2 is a longitudinal median section therethrough. Fig. 3 is a transverse section of one of the ear pieces employed in connection herewith. Fig. 4 is a face view of said ear piece. Fig. 5 is a view of a certain valve used herein, the valve being shown in position. Fig. 6 is a view of the valve removed from its casing. Fig. 7 is a view of certain wire tightening means employed in connection herewith.

The megaphone consists of a frusto-conical horn 10 having a smaller substantially frusto-conical mouth piece 11 attached at its smaller end. Within the frusto conical horn 10 there is provided stops 12 against which abuts a ring 13 carrying a series of pegs 14 provided with square ends and between which are strung wires 15. The bottom of the body 10 is provided with an opening 16 from which leads a tube 17 having communication with a transverse tube 18 which is provided at its upper end with certain ear pieces, each of which consists of a body 19, within which is fitted a ring 20 provided with square end pegs 21 between which are strung wires 22. The edge of the ear pieces are provided with a cushion 23 of soft rubber so that it rests easily against the ears of the user, the tube 18 passing around beneath the user's chin.

Adjacent the opening 16 the tube 17 is provided with a valve consisting of a casing 24 wherein moves a plunger 25 having an opening 26 therethrough and from this opening extends a slot 27. Attached to this valve is a stem 28 provided on its end with a push button 29 and this stem projects through the casing as clearly shown in Fig. 5. Between the other end of the valve and the bottom of the casing 24 there is provided a spring 30 which normally holds the valve in the position shown in Fig. 5. Connecting the ear pieces 19 is a wire 31, the ends of which are secured to the respective central wires 22 of said ear pieces and from this wire 31 extends a wire 32 which passes through a tube 17 and is attached to the central one of the wires 15.

For the purpose of tightening the wires and adjusting them in unison there is provided a key 33 of the ordinary clock type, it being understood that the pegs 14 and 21 are revoluble in their respective rings after the manner of the pegs of a violin or other musical instrument.

In using the device the ear pieces are placed upon the ears with the tube 18 extending around beneath the chin and this will bring the mouth opposite the mouth piece 11. The operator may face in the direction of the person with whom he wishes to communicate and by speaking into the mouth piece sound will be conveyed to him in the ordinary manner. When using the device to speak into it is preferred to shut off the sound waves by closing the valve so that the only opening that remains is the small opening 27 which is provided for the reception of a wire 32 when said valve is closed. When the other person desires to speak the valve is opened and sound waves enter the megaphone and strike the wires 15 also passing down through the tube 17.

Now as the wires 15 and 21 are in unison the metallic connection made by the wires 31 and 32 between these wires will cause the same to vibrate and strengthen the sound wave at the ear piece.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that many minor changes may be made in the form and construction thereof without departing from the material principles thereof and it is therefore not wished to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope of the appended claims.

What is claimed is:—

1. The combination with an ear piece for megaphone horns of a ring carried in said ear piece, pegs carried by said ring and revoluble therein, and wires connecting said pegs and stretching across said ring.

2. The combination with an ear piece for megaphone horns of a ring carried in said ear piece, pegs carried by said ring and revoluble therein, and wires connecting said pegs and stretching across said ring, said wires being arranged in parallelism.

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

CHAPMAN SCHANANDOAH.

Witnesses:
L. N. Gillis,
M. M. Mahoney.