W. MOLLOY.

WHISPER PHONE.

APPLICATION FILED MAR. 18, 1920.

1,376,719. Patented May 3, 1921.

Fig. 1.

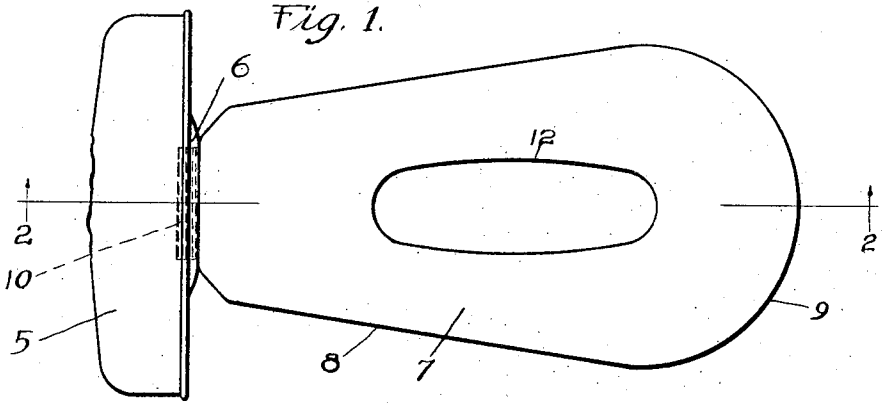


Fig. 2.

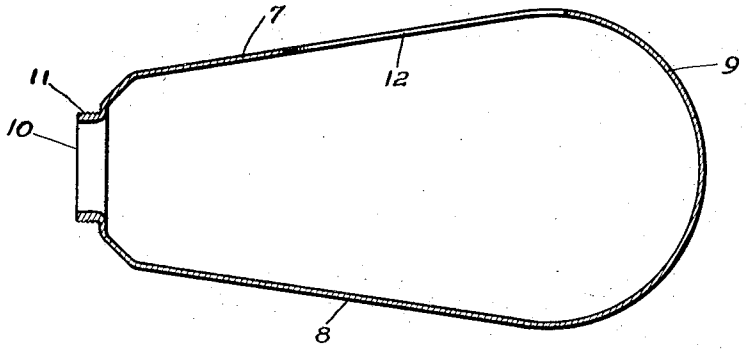
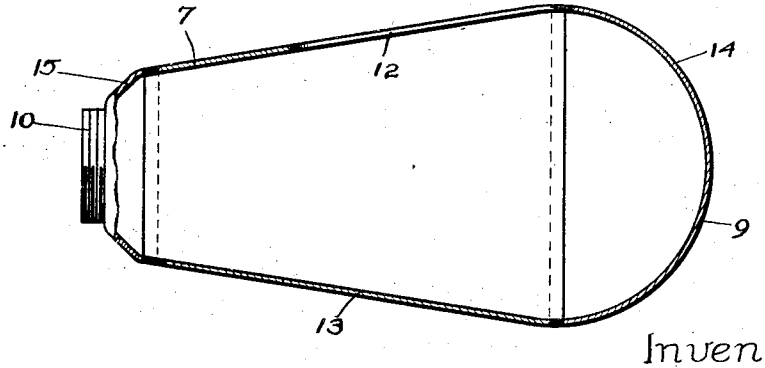


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM MOLLOY, OF CHICAGO, ILLINOIS.

WHISPER-PHONE.

1,376,719. Specification of Letters Patent. Patented May 3, 1921.

Application filed March 18, 1920. Serial No. 366,938.

To all whom it may concern:

Be it known that I, WILLIAM MOLLOY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Whisper-Phones, of which the following is a specification.

This invention relates to certain new and useful improvements in a whisper-phone or an attachment for telephone instruments, and it consists in certain peculiarities of the construction, novel arrangement and operation of its parts as will be hereinafter more fully set forth and specifically claimed.

The principal object of my invention is to provide an extremely inexpensive yet strong and durable attachment for telephone transmitters whereby sounds, and particularly vocal sounds, will be received and transmitted thereby in a clear and articulate manner.

A further object is to provide a device of the above mentioned general character which by reason of its novel and peculiar construction will amplify the sounds emitted thereinto and so direct the sound waves as to cause the whispers of the user to be distinctly and clearly heard at a considerable distance over the telephone wires.

Still another object is to provide a whisper-phone or attachment for telephone transmitters which can be readily attached to such transmitters of the ordinary or well known construction or easily removed therefrom.

Other objects and advantages of the invention will be disclosed in the following description and explanation.

In the accompanying drawing which serves to illustrate an embodiment of the invention,

Figure 1 is a view in side elevation of a portion of a transmitter of a telephone showing my whisper-phone or attachment in position thereon ready for use.

Fig. 2 is a central longitudinal sectional view taken on line 2—2 of Fig. 1 looking in the direction indicated by the arrows, and

Fig. 3 is a similar view to Fig. 2 showing a modification in the construction of the device.

Like numerals of reference refer to corresponding parts throughout the different views of the drawings.

The reference numeral 5 designates a portion of the transmitter of a telephone which as usual is provided in one of its faces and centrally thereof with a screw-threaded opening 6 for the reception of a mouth piece of the ordinary or well-known construction.

My invention is designed to be used as a substitute for such mouth pieces and for the purpose of amplifying and otherwise rendering sounds transmitted over the telephone more distinct or articulate and at the same time, permitting the sounds when enunciated to be made in whispers or in low tones.

To this end I employ a hollow body, which is designated as a whole by the reference numeral 7 and which may be made of any suitable size and material, but by preference of thin or sheet-like material, as will be readily understood by reference to Figs. 2 and 3 of the drawings. This hollow body, as shown, is of an enlarged semi-spherical shape at one of its ends, thus providing a concavo-convex enlarged end. The circular wall of the body, which wall is indicated by the numeral 8, tapers from the enlarged portion or end 9 toward the other end of the body which latter end is provided with a neck 10 having on its outer surface screw-threads 11 of a size to engage the standard size screw-threaded openings 6 of the transmitters of telephones.

By this arrangement it is apparent that the neck 10 can be screwed into the opening 6 of the telephone transmitter 5 where it will be securely supported in a laterally extended position therefrom. The body 7 is provided with an elongated opening 12 which is located longitudinally with respect to the body and as shown is by preference elliptical in shape. This opening is employed to receive the vocal sounds as they are emitted from the lips or made by the user of the telephone.

In Figs. 1 and 2 of the drawing, I have shown the device as being made of a single piece of material such as glass, celluloid, porcelain, or the like, and in Fig. 3 an illustrated modification in the construction of the device which consists in making it of sheet metal and of three pieces, that is, of a main tubular part 13 which is tapered from one of its ends to the other thereof as shown.

Secured to the enlarged end of the tubular piece 13 is a substantially semi-spherical cap or member 14 the edges of which may be secured to the adjacent end edges of the tubular part 13 by means of solder or by being brazed or otherwise attached thereto.

Mounted on the smaller end of the tubular member 13 is another cap or end piece 15 which is reduced toward its outer end and provided with an externally screw-threaded neck 10 as in the other construction and for the same purpose.

By my improvements it will be seen and readily understood that the sound waves uttered or ejected into the hollow body through the opening 12 therein will by reason of the concave surface of the enlarged portion 9 of the body and the circular and forwardly tapered walls thereof be directed through the neck 10 against the diaphragm of the telephone in such a way that the articulate sounds will be conveyed and delivered over the telephone wires in a very clear, distinct, and audible manner even if the sounds are made in whispers.

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

1. A device of the class described, consisting of an elongated and tapered hollow body member having between its ends a longitudinally extended elongated opening and provided at one of its ends with an outlet opening and means to attach it to a telephone transmitter, said member having its end opposite said outlet enlarged and substantially semi-spherical in shape with its concave surface presented toward said outlet.

2. A device of the class described, consisting of an elongated and tapered hollow body member made of thin sheet-like material, said body member having between its ends an elliptically shaped opening located longitudinally with respect to the body member, said body member provided at one of its ends with an outlet opening and means to attach it to a telephone transmitter and having its end opposite said outlet enlarged and substantially semi-circular in shape with its concave surface presented toward said outlet.

WILLIAM MOLLOY.