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1,478,074

L. VAN RUTTEN
TELEPHONE TRANSMITTER MOUTHPIECE

Filed April 5, 1922

Fig. 1.

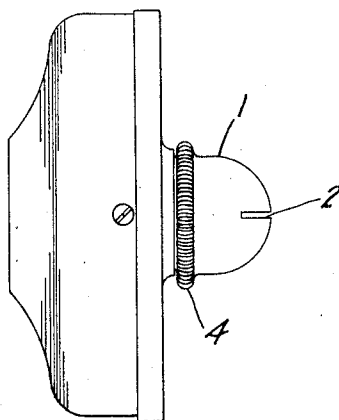


Fig. 2.

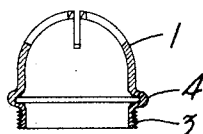
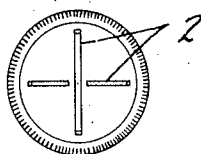


Fig. 3.



Inventor:
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by *Jul. Ch. Palmer* ATT'Y

UNITED STATES PATENT OFFICE.

LEON VAN RUTTEN, OF ANTWERP, BELGIUM, ASSIGNOR TO WESTERN ELECTRIC COMPANY, INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

TELEPHONE-TRANSMITTER MOUTHPIECE.

Application filed April 5, 1922. Serial No. 549,817.

To all whom it may concern:

Be it known that I, LEON VAN RUTTEN, a subject of the King of the Belgians, residing at Antwerp, in the Kingdom of Belgium, have invented certain new and useful Improvements in Telephone-Transmitter Mouthpieces, of which the following is a full, clear, concise, and exact description.

This invention relates to mouthpieces for telephone transmitters.

An object of the invention is to provide an inexpensive and efficient mouthpiece for telephone transmitters, and particularly for telephone transmitters of the fixed type.

This mouthpiece consists of an inverted cup-shaped member having small openings therein for the admission of sound waves. It is so constructed as to present a smooth outer surface which does not collect dust and dirt, and which can be easily cleaned when desired.

An advantage of this construction resides in the fact that the speaker, on account of the shape and general appearance of the mouthpiece, tends to bring his lips closer than to the ordinary type of mouthpiece.

In the accompanying drawing,

Fig. 1 is a side elevation of a telephone transmitter equipped with one type of the mouthpiece;

Figs. 2 and 3 are vertical cross-sectional and top plan view, respectively, of this mouth-piece.

Fig. 1 shows a dome-shaped, or inverted-cup-shaped, mouthpiece 1, which may be formed from any suitable material, such as metal, or from ebonite, phenolic condensation products, or other molded insulating composition. The preferred method of constructing this mouthpiece, however, is to form the dome-shaped member of brass and

then to give it a coating of hard rubber or other similar material so as to reduce the condensation effects. Relatively narrow slots 2 are provided in the top of the dome to permit the sound waves to reach the transmitter diaphragm. Small holes of any shape may replace these slots. A threaded portion 3 at the bottom of the dome-shaped mouthpiece 1 is provided so that the mouthpiece may be secured into the transmitter face-plate. A knurled shoulder 4 may be formed so as to provide a grip when the mouthpiece is screwed into place or is unscrewed.

While a particular type of mouthpiece has been shown, various changes may obviously be made therein without departing from the spirit of the invention.

The invention claimed is:

1. A dome-shaped telephone transmitter mouthpiece having narrow slots for the admission of sound waves cut in the top of the dome.

2. An inverted-cup-shaped telephone transmitter mouthpiece having openings therein for the admission of sound waves, said openings comprising slots running across its surface at right angles to each other.

3. In a telephone transmitter of the fixed type, an inverted-cup-shaped mouthpiece, having a smooth outer surface, slots running at right angles across this surface for the admission of sound waves, and a knurled shoulder at the base of the mouthpiece to facilitate screwing it into place on the transmitter or unscrewing it therefrom.

In witness whereof, I hereunto subscribe my name this tenth day of March A. D., 1922.

LEON VAN RUTTEN.