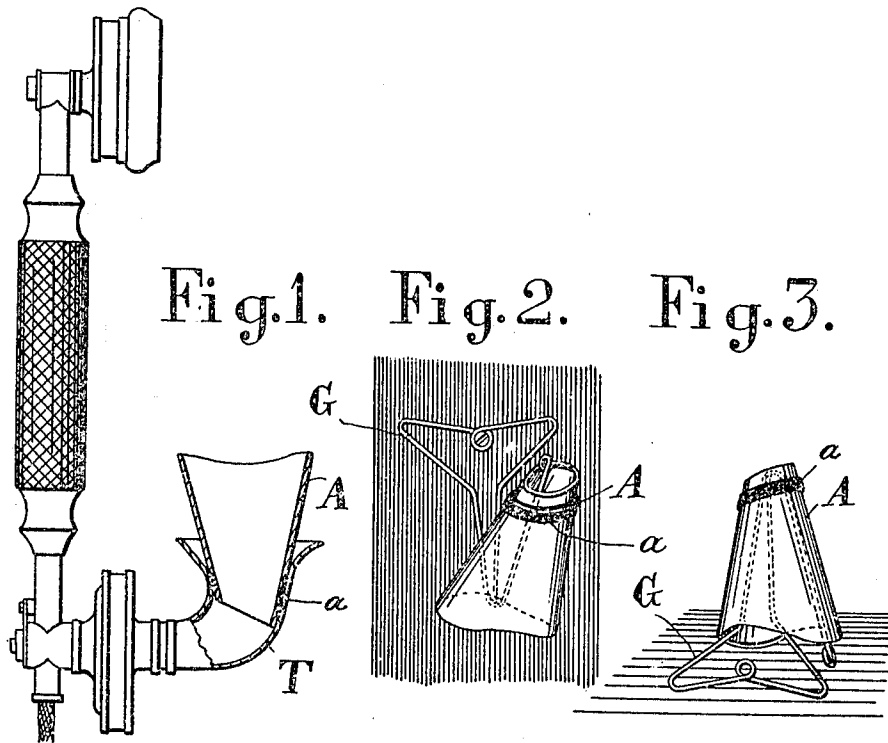


H. H. BERG-JAGER.
TELEPHONE MOUTHPIECE.
APPLICATION FILED AUG. 11, 1908.

954,372.

Patented Apr. 5, 1910.



Witnesses.

Jesse N. Lutton.

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UNITED STATES PATENT OFFICE.

HANS HENRIK BERG-JAGER, OF CHRISTIANIA, NORWAY.

TELEPHONE-MOUTHPIECE.

954,372.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed August 11, 1908. Serial No. 448,040.

To all whom it may concern:

Be it known that I, HANS HENRIK BERG-JAGER, a subject of the King of Norway, residing at Christiania, Norway, have invented certain new and useful Improvements in Telephone-Mouthpieces; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in telephones and consists in an apparatus for improving the phonetic effect of telephone transmitters.

I have found that the distinctness of the conversation at long distances in most cases can be considerably improved through the insertion of a suitable, loose funnelshaped piece in the opening of the mouth piece of the microphone, which funnelshaped piece serves as a concentrator for the sound waves passing from the mouth of the speaker to the ordinary mouthpiece of the telephone.

The device may be used in order to increase the distinctness of conversation at long distances and in such cases, where the distinctness of the conversation is not satisfactory.

To obtain good results, this device must satisfy the following conditions: 1. The loose funnelshaped piece must be capable of being so easily inserted, that it can be readily applied or removed during the conversation. 2. The lower part of the said funnelshaped piece must be so formed, that it will not in any way break or prevent the passage of the sound waves, while, at the same time, it must be readily inserted. 3. The loose piece referred to, when not in use, must be so placed that, during the conversation, the speaker can readily seize and apply the same.

In the annexed drawing is illustrated a form of device embodying the present invention.

Figure 1 is a side elevation partly in section of a micro-telephone with the aforesaid loose funnel-shaped piece placed in operating position, while Figs. 2 and 3 show two different ways of disposing of the same when not in use.

The loose funnelshaped piece A is secured to the mouthpiece T of the telephone by simply inserting it in the same. Its inner end is preferably, as indicated by *a* coated with a yielding material such as soft india rubber, for the purpose of securing a firmer hold of the same in the mouthpiece of the telephone, and may preferably, as shown, be cut on an inclined line, this arrangement being advantageous for a good evolution of the sound waves.

To enable the loose piece, at any time during the telephone conversation, to be readily seized with one hand and applied to the mouthpiece of the telephone, it is placed close by the telephone apparatus, which may suitably be effected for instance by means of the wire holder G shown in Figs. 2 and 3. Fig. 2 shows the holder hung on the wall, and Fig. 3 shows the same placed on a table, the peculiar pyramid shape enabling the holder to be used in both positions.

Claims.

1. A sound wave concentrating device for telephone transmitters consisting of a funnel-shaped member the smaller end of which is provided with a layer of a yielding material to fit the inner wall of the mouthpiece of the telephone.

2. A sound wave concentrating device for telephone transmitters consisting of a funnel-shaped member the smaller end of which is cut on an incline and provided with a layer of a yielding material to fit the inner wall of the mouthpiece of the telephone.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

HANS HENRIK BERG-JAGER.

Witnesses:

HENRY BORDEWICH,
MICHAEL ALGER.