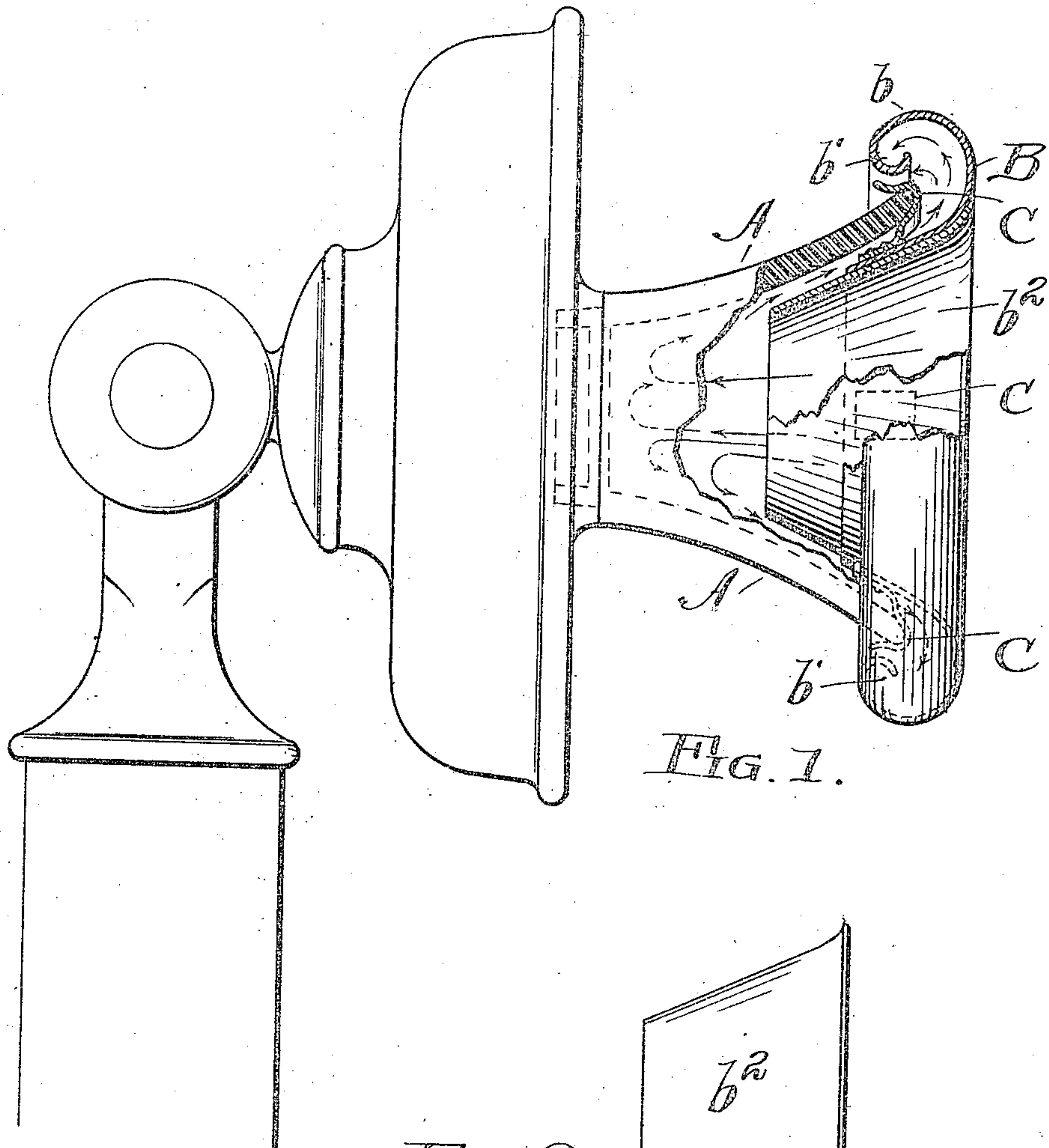


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 ATTACHMENT FOR TELEPHONE MOUTHPIECES.
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 951,825. Patented Mar. 15, 1910.



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ATTACHMENT FOR TELEPHONE-MOUTHPIECES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BERT C. MAXWELL, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a certain new and useful Improvement in Attachments for Telephone-Mouthpieces, of which the following is a full, clear, and exact description.

It is generally recognized that disease germs are often deposited in telephone mouth pieces by persons using the telephone; and that subsequently users of said mouth pieces may become infected thereby because as they talk into the mouth pieces the dirt and germs are blown out into their faces, and they inhale them. This has led to the invention of various devices to be attached to the permanent telephone mouth pieces for the purpose of preventing these injurious results. Generally speaking, these devices have included a germicide holder, and have been constructed on the theory that in order to be effective they must trap the germs in the mouth piece and kill them by the germicide.

The present invention is constructed on a very different principle, namely, that of providing the mouth piece with out-going passage ways which discharge away from the user so that the air currents caused by the user, as he talks into the mouth piece, will blow out the germs and dirt and discharge them in a direction which is not fraught with danger to him.

The invention consists in the combination with the permanent frusto conical mouth piece of a telephone transmitter, of a supplemental frusto-conical mouth piece of smaller diameter secured therein and having its outer edges rolled backward over the edges of the permanent mouth piece but out of contact therewith, whereby there is formed, between the supplemental mouth piece and the permanent mouth piece, annular air passage-ways which are deflected backward by the curved edge of the attachment.

This invention is capable of being embodied in a great variety of specific forms. The form which I regard as most complete and most sanitary is that which is shown in Figure 1, which shows the attachment applied to a telephone mouth piece,—the drawing being partly broken away to show the construction. Fig. 2 is a side view of the removable center of said attachment.

Referring to the parts by letters, A represents the permanent frusto-conical mouth piece of a telephone transmitter; and B represents a frusto-conical attachment having an outwardly and rearwardly curved margin or edge *b*. This attachment is of smaller diameter than the mouth-piece A, and is to be secured therein in such position that the two are not in contact, and the curved edge of the attachment rolls over the edge of the mouth piece A. As shown, these small spring clasps C are employed for the purpose. When the attachment is secured in the permanent mouth piece in the position shown, there is between them an annular air passage-way which curves rearwardly around the forward edge of the permanent mouth piece. When a person talks into a mouth piece equipped with this attachment, air currents are produced, which flow in the paths indicated by the arrows,—the out going currents, which have perhaps gathered up germs and dust from the permanent mouth piece, flowing through the annular passage-way and being deflected backward by the rolled over edge of the attachment wherefore they are not discharged into the face of the user.

It will be noted that the edge *b* of the attachment outside of the mouth piece is rolled inward and forward, thereby forming an annular trough *b'*, in which the dust is partially trapped. The attachment may be removed and cleaned from time to time.

In the best constructions, the attachment is made with a detachable center *b²*, which is preferably made of paper. It is formed so as to fit friction tight in the other part, and it has an outwardly extended annular flange intended to be in contact with the outer face of the other part of the attachment. It is intended that each user of a telephone shall put in a clean fresh part *b²* before he uses the telephone.

A secondary, but by no means unimportant, purpose of this invention is to provide a suitable exit for outgoing sound waves to pass from the telephone transmitter without disturbing or resisting ingoing sound waves.

Having described my invention, I claim:

1. An attachment for telephone mouth pieces, comprising a frusto-conical member, having its outer edge rolled outward, and means by which this member may be secured

in a permanent telephone mouth piece, out of contact therewith and with the rolled over edge extended around the front edge of said permanent mouth piece.

5 2. An attachment for telephone mouth pieces, comprising a frusto-conical member, having its outer edge rolled outward, and means by which this member may be secured in a permanent telephone mouth-
10 piece, out of contact therewith and with the rolled over edge extended around the front edge of said permanent mouth piece, said member having an easily removable frusto-conical center piece.

15 3. The combination of a permanent telephone mouth piece, of a supplemental mouth piece secured in the permanent mouth piece out of contact therewith, and having its outer edge rolled outward and backward
20 around the outer edge of the permanent mouth piece.

4. The combination of a permanent tele-

phone mouth piece, of a supplemental mouth piece secured in the permanent mouth piece out of contact therewith, and having its
25 outer edge rolled outward and backward around the outer edge of the permanent mouth piece, and then inward and forward to form an annular trough like trap.

5. The combination with a permanent tele-
30 phone mouth piece, of a supplemental mouth piece in the permanent mouth piece but out of contact therewith and having its outer edge rolled outward and extended beyond the outer edge of said permanent mouth
35 piece, whereby the outgoing air currents are deflected away from the person talking into the supplemental mouth piece.

In testimony whereof, I hereunto affix my
signature in the presence of two witnesses.
40 BERT C. MAXWELL.

Witnesses:

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