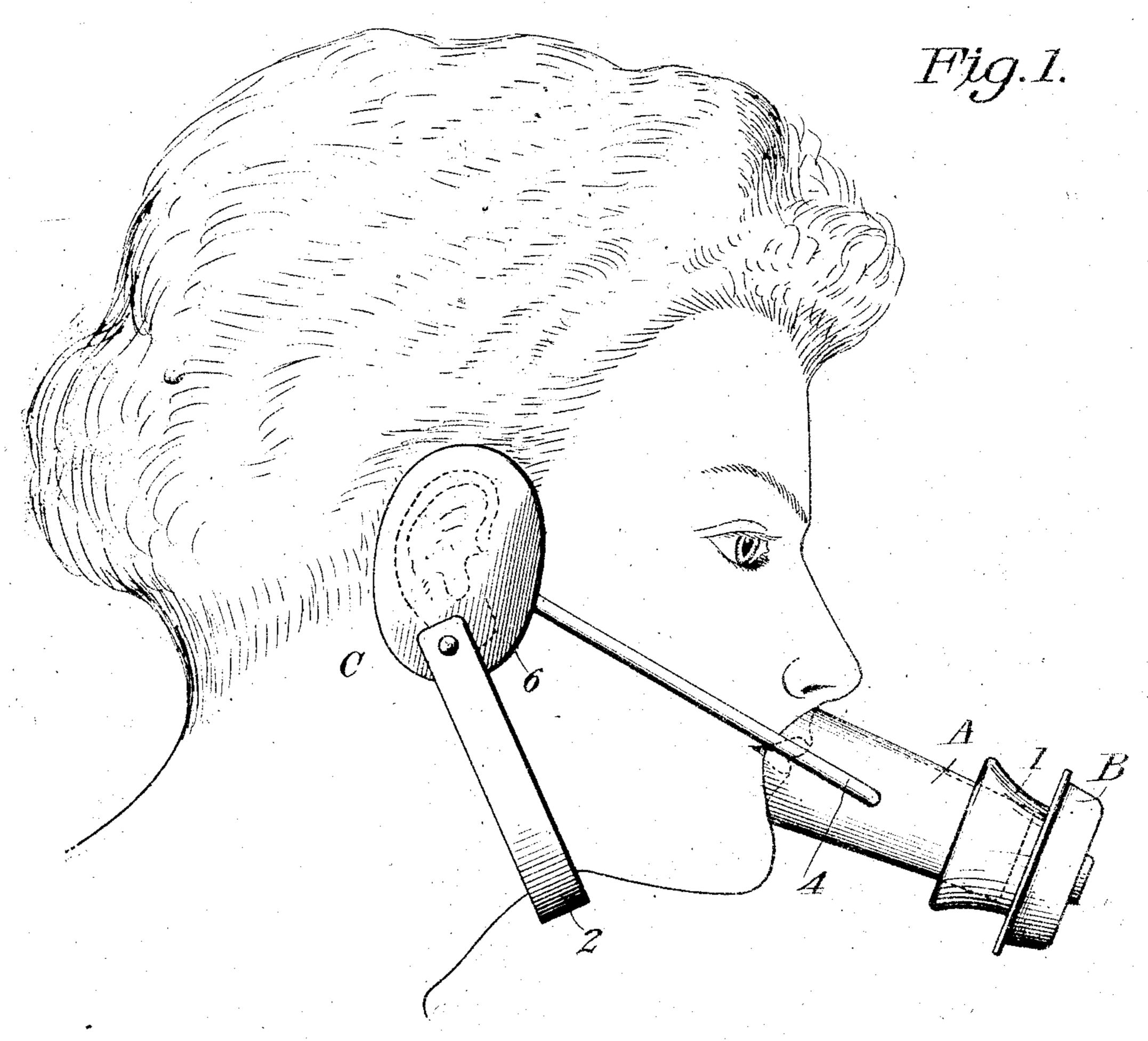
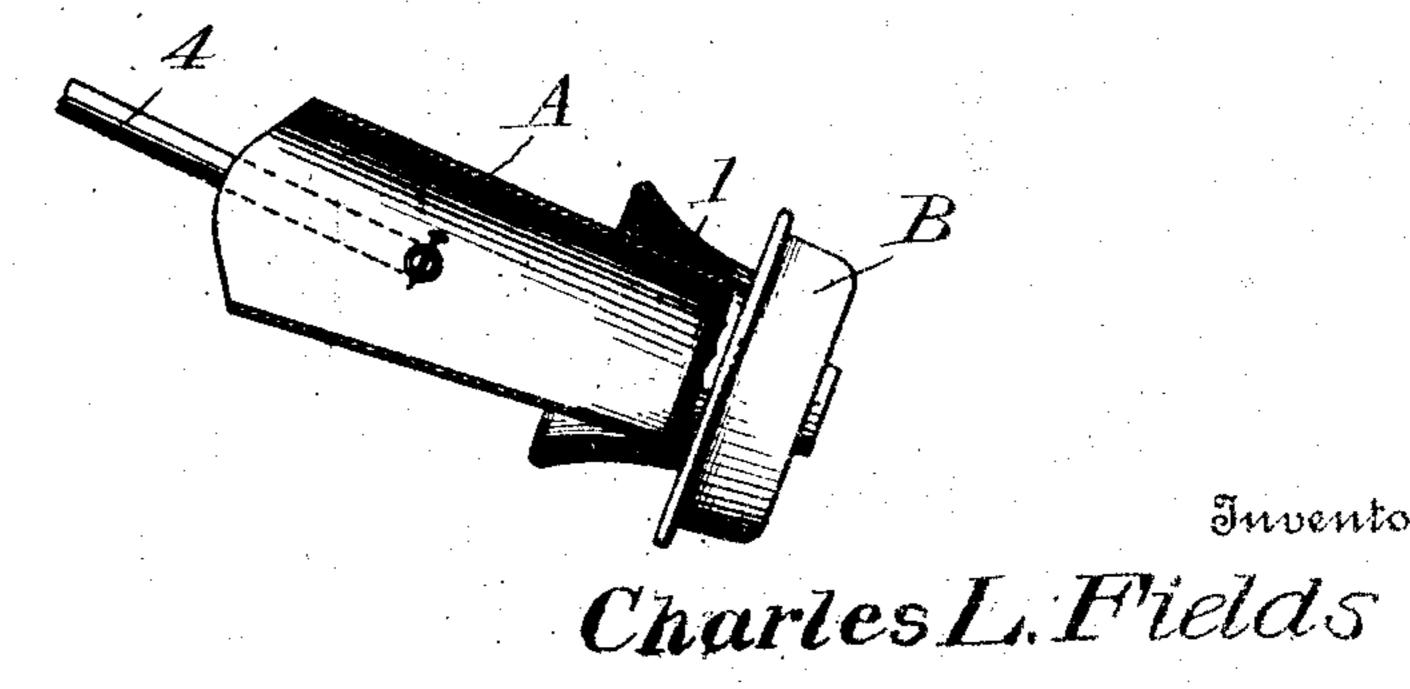
C. L. FIELDS. TELEPHONE ATTACHMENT. APPLICATION FILED JULY 9, 1910.

987,563.

Patented Mar. 21, 1911.

2 SHEETS-SHEET 1.





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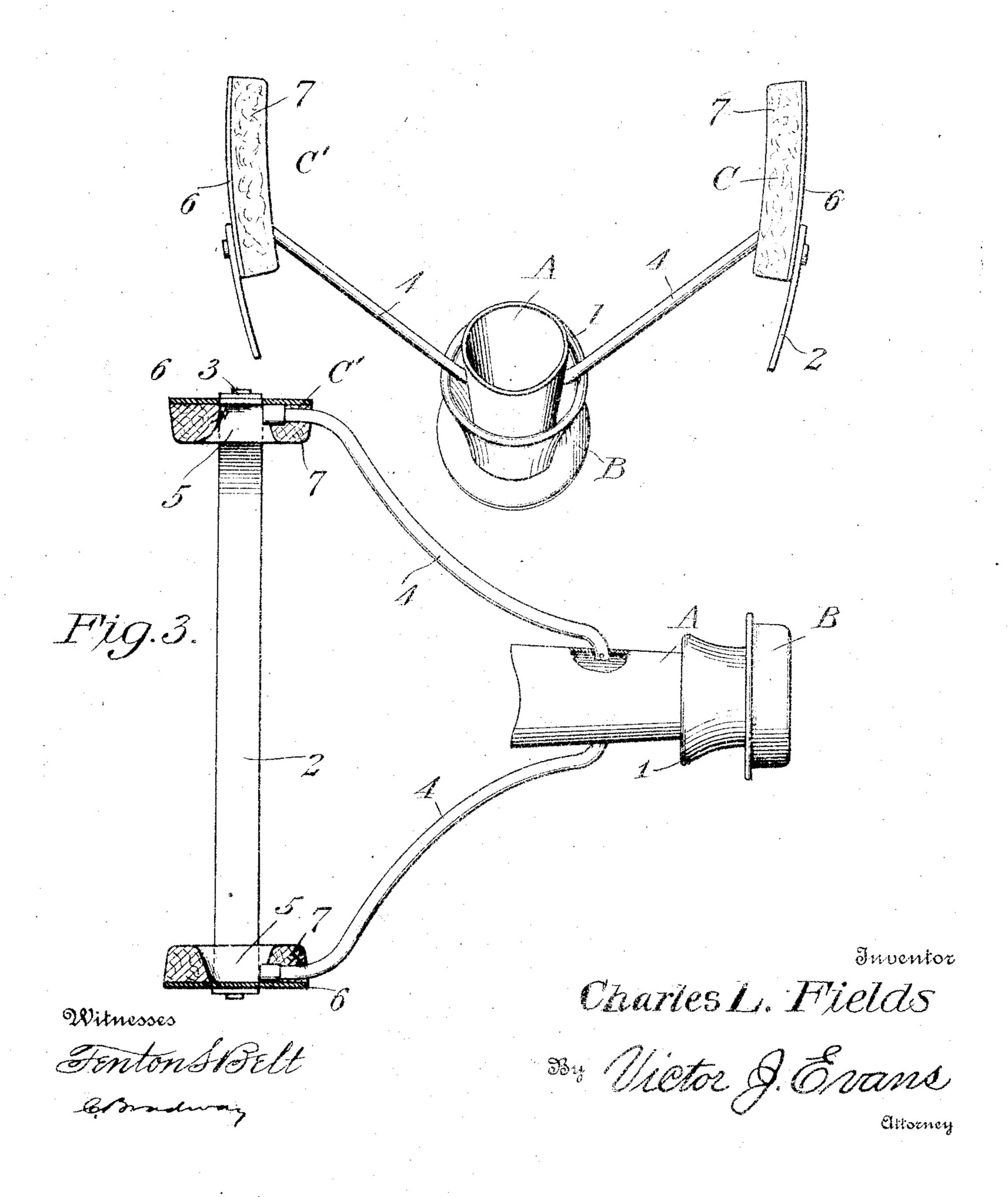
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SHEETS-SHEET 2.

Fig. 2



UNITED STATES PARENT OFFICE.

CHARLES L. FIELDS, OF ROCHESTER, INDIANA.

987,563.

Specification of Letters Patent. Patembell man. 21, 1911.

Application filed July 9, 1910. Serial Mo. 571,181.

To all whom it may concern:

Rochester, in the county of Fulton and State 5 of Indiana, have invented new and useful Improvements in Telephone Attachments, of which the following is a specification.

This invention relates to a speaking attachment for telephones whereby the dis-10 turbing sounds and noises are excluded so that the outgoing voice sounds can be more effectively transmitted and the incoming

voice sounds better heard.

The invention has for one of its objects 15 to provide an extremely simple, practical, and inexpensive attachment of this character which can be readily applied to ordinary telephone transmitters and capable of being easily adjusted to the mouth and ears of the 20 user.

A further object of the invention is the provision of a noise-excluding device including ear covers, a month piece, and sound-conducting tubes between the mouth 25 piece and ear covers, the latter being hollow and in communication with the tubes so that the user can readily hear his own voice in its natural tone.

With these objects in view and others, 30 as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity

35 in the claims appended hereto.

In the accompanying drawings, which illustrate one embodiment of the invention. Figure 1 is a side view of the device shown applied to a telephone and in use. Fig. 2 is 40 a rear view thereof. Fig. 3 is a plan view with the ear covers or mufflers in section. Fig. & is a sectional view of the mouth piece shown applied to the transmitter of the telephone.

. 45 Similar reference characters are employed to designate corresponding parts through-

out the views.

the mouth piece or sound-excluding body of 50 the attachment, the same being of funnel or trumpet shape and constructed of any suitable material. The smaller end of this mouth piece is of such size as to fit into the mouth piece 1 of the telephone transmitter 55 B, and the larger end of the mouth piece A is of such size as to take in the mouth of the

user. The voice is conducted through the Be it known that I, CHARLES L. FIELDS, a | mouth piece A and operates in a well-known citizen of the United States, residing at manner on the diaphragm of the transmitter B of the telephone. This mouth 60 piece is used primarily to prevent surrounding noises and sounds from interfering with the speaker's voice so that only the latter will be transmitted through the telephone system and as the result the distant listener 65

can hear more readily.

It is desirable to exclude noises and disturbing sounds from the ears of the user, and therefore the attachment includes ear covers C and C', which are fastened to the 79 ends of a bowed chin band 2 which must be spread open in order to permit the band to be adjusted to the user, the band passing under the chin and upwardly along the cheeks so that the ear covers or muffers can, 75 bear against the outer structure of the ears. One car cover C' has an opening 3 so that the receiver of the telephone set can be placed against the outside of the ear cover in order that the sounds of the incoming 80 voice can be distinctly heard. The ear covering section of the attachment is connected to the mouth piece section so that the attachment will be a unitary structure, and for this purpose the flexible elements 4 are 85 connected with the mouth piece A and with the ear covers C and C', and since the connecting elements are flexible, the chin band can freely open and close. These elements 4 are intended also to act as sound conduc- 90 tors, and to do this, they are in the form of tubes that have their front ends in open communication with the mouth piece A and their rear ends in open communication with the ear covers, the latter being hollow or 95 formed with chambers 5. Each ear cover consists of a plate 6 of any suitable material, to which is fastened an oval ring 7 of thick felt or other suitable material which is adapted to bear directly on the ear, the cham- 100 ber 5 inclosed by the ring being in communication with the auditory passage of the ear. By means of these tubes, the speaker's voice. Referring to the drawings, A designates is freely conducted to his own ears and as the result unnatural sounds will not be 105 heard as would otherwise be the case.

> From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily 110 apparent to those skilled in the art to which the invention appertains, and while I have

described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that 5 the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what

10 I claim as new, is:-

1. An attachment of the class described opposite ends for conducting voice sounds therethrough, one end being applied to the 15 mouth of the user and the other end to the mouth piece of a telephone transmitter, apertures in the sides of the mouth piece, ubes having their forward ends extending into the mouth piece through the apertures, 20 and chambered ear covers into which the rear ends of the tubes extend for conducting the sound of the voice from the mouth piece to the ears, said tubes forming the said connecting means for permanently uniting the mouth piece and ear covers.

2. An attachment for telephones comprising a tubular mouth piece adapted to be applied to the mouth piece of a telephone transmitter and into which the voice is spoken, chambered ear covers, tubes connected with the mouth piece and ear covers and having their ends in open communication with both, and a flexible supporting band to which the ear covers are attached, said tubes forming the sole connections between the ear covers and mouth piece.

3. An attachment of the class described

comprising a mouth piece open at both ends to be applied to the mouth of the user and to the mouth piece of a telephone transmit- 40 ter, ear covers, a support for the covers, and flexible sound-conducting members connected with the mouth piece intermediate its ends and with the ear covers.

4. An attachment of the class described 45 comprising a mouth piece section, an ear covering section, the latter section consisting of a flexible band and mufflers on the ends comprising a tubular mouth piece open at thereof, and a pair of flexible connecting and sound-conducting elements having their 50 front ends attached to the mouth piece section intermediate its ends and at opposite sides and their rear ends attached to the ear

covering section.

5. In a device of the class described, the 55. combination of a mouth piece; chambered ear covers; means for connecting the covers together and for holding the same on the head of the user; and flexible tubes connecting the ear covers with the mouth piece and 60 having their ends communicating with the latter and with the chambers of the ear covers; each ear cover consisting of a plate and a ring of yielding material to bear against the external ear structure, the plate 65 of one ear cover having an opening through which sounds from a receiver can be communicated to the ear.

In testimony whereof I affix my signature

in presence of two witnesses.

CHARLES L.FIELDS.

Witnesses:

MILTON O. REES, C. E. ROBEINS.