

1,052,162.

Patented Feb. 4, 1913.

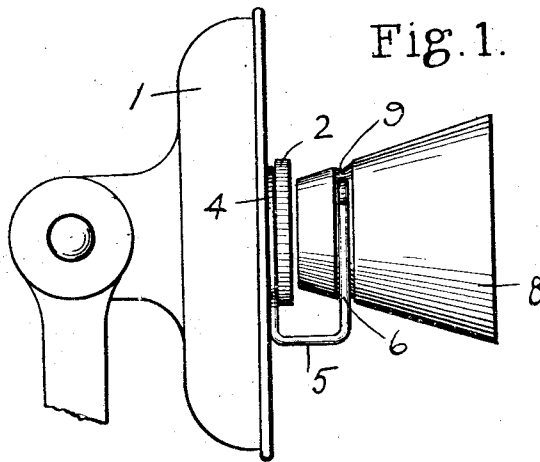


Fig. 2.

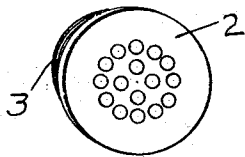


Fig. 3.

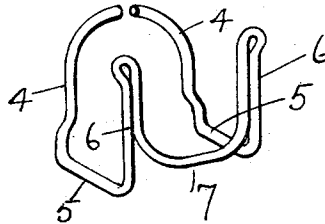


Fig. 5.

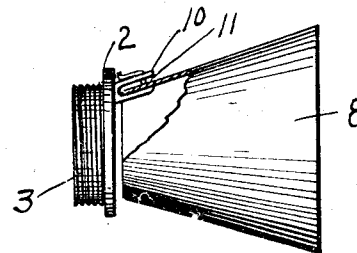


Fig. 4.

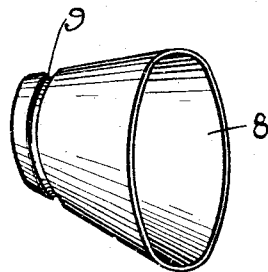
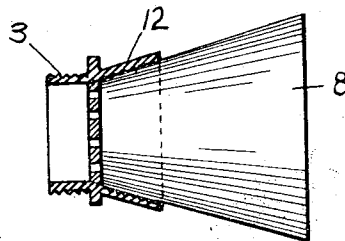


Fig. 6.



Witnesses

E. J. Ogden
 J. L. Macdermott

Inventor

John McCausland.

By

Howard E. Barlow
 Attorney

UNITED STATES PATENT OFFICE.

JOHN McCAUSLAND, OF PROVIDENCE, RHODE ISLAND.

SANITARY TELEPHONE-MOUTHPIECE.

1,052,162.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN McCAUSLAND, a citizen of the United States, residing at the city of Providence, in the county of Providence and State of Rhode Island, have
5 invented certain new and useful Improvements in Sanitary Telephone-Mouthpieces, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a sanitary readily detachable transmitter mouthpiece, and has for its object to provide a telephone transmitter cone-shaped mouthpiece made
15 of paper or other readily destructible material to be readily removed from the transmitter casing and destroyed after using to be replaced by a fresh one.

A further object is to provide a wire
20 bracket or yoke to be readily attached to any transmitter casing, said bracket being adapted to readily detachably support a transmitter mouthpiece so that mouthpiece cones may be provided of such inexpensive
25 material and construction that they may be removed and destroyed after each person has used the telephone to prevent the spread of contagious diseases through a continued use of a single mouthpiece.

30 With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

35 Of the accompanying drawings: Figure 1— is a side elevation showing my improved device attached to a telephone transmitter casing. Fig. 2— is a detail in perspective showing the diaphragm protecting
40 plug. Fig. 3— is a detail in perspective illustrating my improved cone-supporting bracket. Fig. 4— is a detail in perspective of my improved paper mouthpiece cone. Fig. 5— is a modification showing a clip or
45 clamp for releasably securing the cone to the protector plug. Fig. 6— is another modification showing an internally screw-threaded collar into which the cone may be removably secured.

50 Referring to the drawing, 1 designates the ordinary transmitter box or casing, and 2 the diaphragm protector plug which has a threaded body portion 3 adapted to be screwed into the front plate of said casing.
55 My improved cone-supporting bracket is preferably constructed of wire having arms

4—4 adapted to extend up around the barrel portion 3 of the plug and having forwardly extending portions 5 with upwardly extending arms 6, which arms are bent back
60 upon themselves forming a U-shaped slightly resilient yoke 7 for the reception of the cone-shaped mouthpiece 8. This mouthpiece, as illustrated in Figs. 1 and 4, is provided on its outer surface near its
65 inner end with an annular groove 9 for the reception of the yoke portion of said bracket.

One of the essential features of my improved device is that this mouthpiece is a
70 plain hollow truncated cone constructed of paper or fiber, or other inexpensive readily destructible material, the shape being such that it can be made from paper at so little
75 expense that one can afford to use a fresh cone each time the telephone is used, or particularly after having been used by another person. Such a device would be of
great service particularly in public telephone stations to prevent the spread of
80 contagious diseases, which often results from the use of a common mouthpiece permanently attached.

In applying my improved device to any telephone it is only necessary to remove the
85 usual permanent mouthpiece, pass the body of the diaphragm protecting plug through between the arms 4 of the bracket and screw the plug into the casing thereby binding the bracket to the casing and supporting the
90 forwardly extending U-shaped yoke portion just in front of the plug to receive the mouthpiece. In applying the mouthpiece itself to this yoke it is only necessary to pass the annular grooved portion down between
95 the arms of said yoke which securely holds the mouthpiece in proper position, from which it may be readily lifted off when desired.

The modification illustrated in Fig. 5
100 shows a clip 10 permanently attached to the plug 2 and having a biting jaw 11 which is adapted to engage one end of the mouthpiece to bite and secure it in position. That illustrated in Fig. 6 shows an internally
105 threaded collar 12 attached to the plug 2 into which the cone may be secured by simply pressing it therein with a rotary motion.

I claim:

1. In a device of the class described the combination of a telephone transmitter cas-

ing, a diaphragm protector detachably connected thereto, a sanitary readily destructible transmitter cone, a bracket clamped in position by said protector and having yield-
5 able arms adapted to engage and removably retain said cone by spring pressure whereby said cone may be readily removed from said bracket to be destroyed.

2. In a device of the class described the
10 combination of a telephone transmitter casing, a diaphragm protector detachably connected thereto, a sanitary readily destructible transmitting cone, a wire bracket secured in position by said protector and hav-
15 ing a U-shaped portion for engaging and retaining said cone in operative position.

3. In a device of the class described the combination of a telephone transmitter casing, a diaphragm protector detachably connected thereto, a bracket detachably connected to said protector and a sanitary readily destructible transmitter cone provided

with an annular groove to be engaged by said bracket for readily removably securing said cone in operative position to the
25 transmitter casing.

4. In a device of the character described the combination of a telephone transmitter casing, a diaphragm protecting plug detachably connected thereto, a transmitter
30 cone of paper provided with an annular groove in its outer surface, and a wire bracket having resilient arms for engaging said plug and also having a U-shaped portion for engaging the groove in said cone for
35 releasably securing the latter in operative position to said casing.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN McCAUSLAND.

Witnesses:

HOWARD E. BARLOW,

E. I. OGDEN.