

Nov. 18, 1924.

1,516,039

D. L. DAVIS

SANITARY ATTACHMENT FOR TELEPHONES

Filed Oct. 15, 1923

2 Sheets-Sheet 1

Fig. 1.

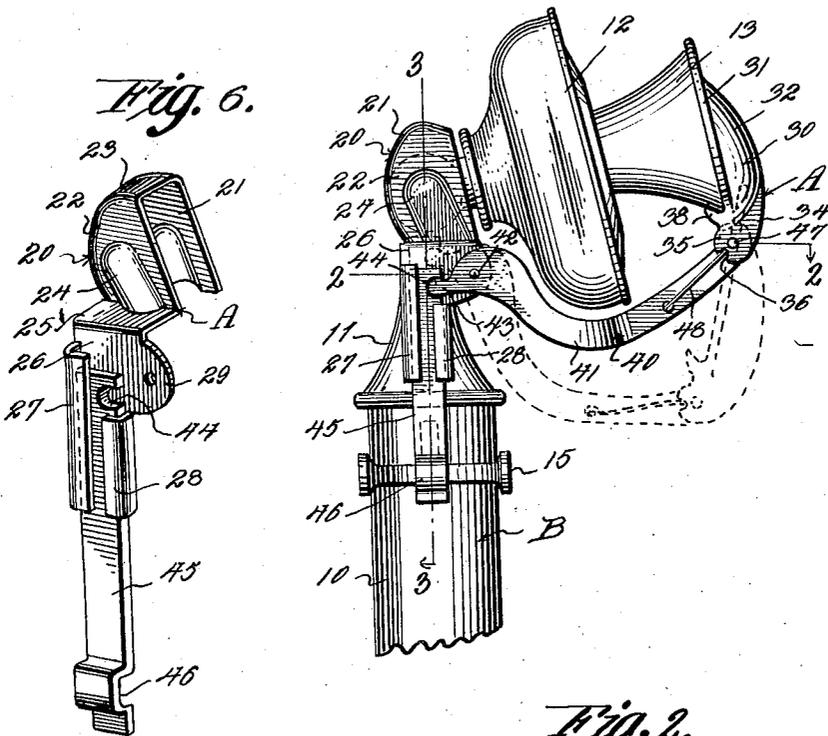


Fig. 6.

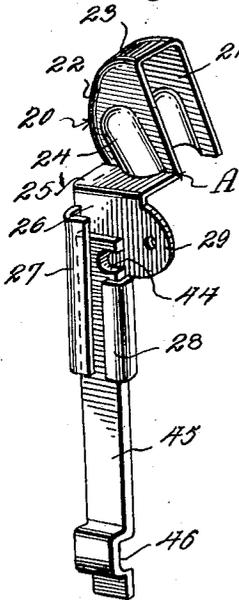
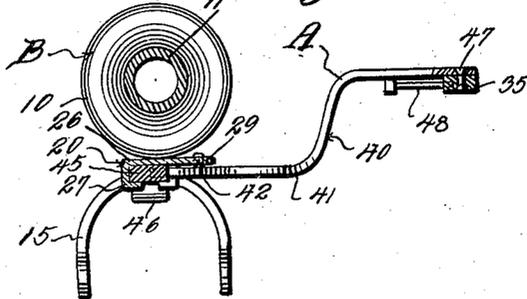


Fig. 2.



WITNESSES
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2 Sheets-Sheet 2

Fig. 3.

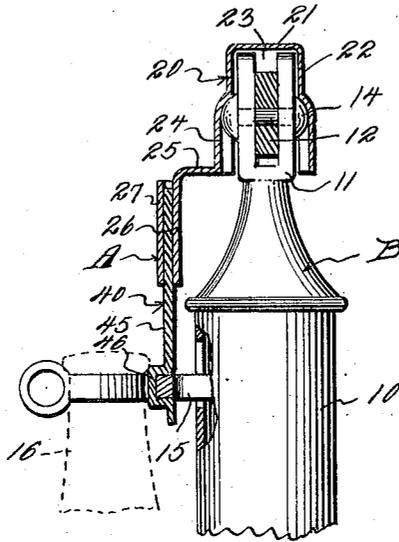


Fig. 4.

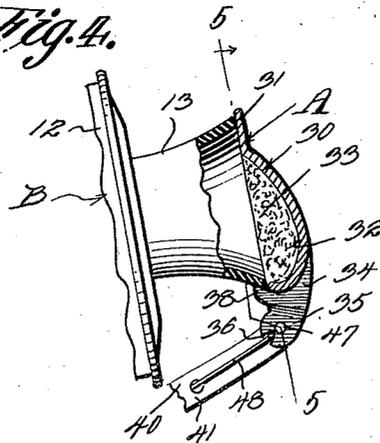
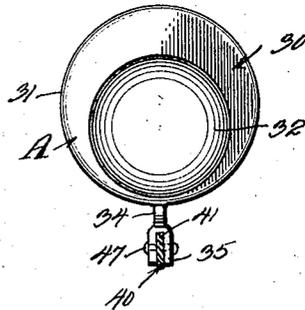


Fig. 5.



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DAVID L. DAVIS, OF PORTLAND, OREGON.

SANITARY ATTACHMENT FOR TELEPHONES.

Application filed October 15, 1923. Serial No. 668,746.

To all whom it may concern:

Be it known that I, DAVID L. DAVIS, citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in a Sanitary Attachment for Telephones, of which the following is a specification.

This invention relates to a sanitary appliance for instruments and the like used by the general public, so that the said instruments and the like will be eliminated as a source of means for spreading contagious diseases, and the primary object of the invention is the provision of a novel sanitary or disinfecting attachment for the mouth pieces of telephones and which is so arranged as to lie wholly out of the plane of the mouth-piece, when the telephone is in use, whereby a disinfectant appliance is provided, which will not hinder the transmitting of messages through the phone.

Another prime object of the present invention is the provision of a cap carrying a disinfectant adapted to normally overlie the mouth-piece of a telephone, the cap being connected to the receiver hook in a novel manner, whereby when the hook is moved to its raised position upon the removing of a receiver therefrom, the said cap will be automatically moved away from the mouth-piece.

A further prime object of the invention is the provision of a novel sanitary appliance for telephones embodying a supporting member for connection with the head and standard of the phone, an operating lever pivotally connected to the support, a cap for the mouth-piece carrying a disinfectant and operated by the lever, and a slide bar connected with the support for reciprocatory movement operatively connecting the receiver hook with the lever, whereby upon movement of the hook the cap will be brought into and out of engagement with the telephone mouth-piece.

A still further prime object of the invention is the provision of a sanitary attachment for telephones which can be readily and conveniently connected with an ordinary telephone by the ordinary layman, which is durable and efficient in use, one that is simple and easy to manufacture and one which can be placed upon the market at a small cost.

With these and other objects in view, the

invention consists in the novel construction, arrangements and formation of parts, as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings, in which drawings:

Figure 1 is a side elevation of the improved sanitary attachment showing the same connected to an ordinary telephone.

Figure 2 is a horizontal section taken on the line 2—2 of Figure 1.

Figure 3 is a vertical section taken on the line 3—3 of Figure 1 illustrating the means for connecting the slide bar with the receiver hook.

Figure 4 is a fragmentary longitudinal section through a portion of the attachment, illustrating the means of connecting the disinfectant pad with the cap for the mouth-piece.

Figure 5 is a section taken on the line 5—5 of Figure 4, illustrating the pocket in which the disinfectant is adapted to be placed, and

Figure 6 is a detail perspective view of a portion of the appliance showing the support, which is adapted to be connected to the upper end of the telephone and the slide operating bar supported by said supporting member.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates the improved telephone attachment and B a telephone with which the same can be associated. The telephone B is of the usual or any preferred construction, and as shown in the drawings, the same is of the desk-type and embodies the usual standard 10 having the head 11 formed thereon which pivotally supports the transmitter 12. The transmitter 12 supports the ordinary type of mouth-piece 13. As in usual construction the transmitter 12 is connected with the extreme upper end of the head 11 by means of a pivot bolt 14. Projecting radially from one side of the standard 10 is the usual pivoted receiver hook 15 which of course is adapted to support the receiver 16. The weight of the receiver 16 normally holds the hook in a lowered position.

The improved attachment A consists essentially of a supporting member 20, the cap 30 for enclosing the mouth-piece 13 and the means 40 for operatively connecting the cap 30 with the receiver hook 15.

The supporting member 20 comprises a hollow head 21 which is shaped to receive and closely embrace the upper end or head 11 of the standard 10 and this head 21 includes the parallel side walls 22 and the arcuate rear connecting wall 23. The forward end of the head 21 is left open to permit the same to be slid on the head or upper end 11 of the standard 10 and the side walls 22 are provided with struckout guide portions 24 for receiving the terminals of the bolt 14 utilized for connecting the transmitter 12 with the said head or upper end 11 of the standard 10. One side wall 22 of the hollow head 21 is provided with a laterally extending arm 25 which in turn carries a depending leg 26, the opposite side longitudinal edges of which are provided with guides 27 and 28 for reciprocally supporting a portion of the cap operating means 40, which will be hereinafter more fully described. The extreme upper end of the arm 26 is provided with a laterally extending apertured lug 29 which also forms a support for a portion of the said operating means 40.

The cap 30 comprises a disk-shaped plate 31 of the same size as the outer end of the mouth-piece 13 and this plate 31 is adapted to completely enclose the said mouth-piece so as to prevent the entrance of dirt, dust and the like into the same. The plate 31 has struck-out therefrom an eccentrically disposed pocket 32 of substantially circular shape and this pocket 32 is adapted to receive any preferred type of disinfectant 33. The disinfectant can be in a liquid form and placed upon suitable raw cotton and the like to be placed in the pocket. Projecting radially from the lower end of the cap 30 is a pivot arm 34, the extreme lower end of which carries a yoke 35 for embracing and receiving a portion of the operating means 40, as will be hereinafter more fully described. This yoke has the outer edge thereof provided with a notch 36 for a purpose, which will also hereinafter more fully appear.

The operating means 40 comprises an operating lever 41 which is of an arcuate configuration, so as to extend about the transmitter 12, as clearly shown in Figure 1 of the drawings. This lever 41 adjacent the rear end thereof is mounted upon the laterally extending pivot lug 29 by means of a pivot pin 42. The extreme rear end of the operating lever 41 beyond the pivot pin 42 is provided with a substantially disk-shaped head 43 which is adapted to fit in a socket 44 formed in one longitudinal edge of the slide bar 45 which is reciprocally mounted in the guides 27 and 28. The lower end of this slide bar 45 is provided with a hook 46 for engaging about the receiver hook 15 and by this construction it can be seen that the receiver hook is operatively connect-

ed with the operating lever 41. The yoke 35 of the arm or pivot lug 34 embraces the extreme forward end of the lever 41 and this yoke 35 is connected to the lever by means of a pivot pin 47. A relatively stiff leaf spring 48 is carried by the lever and the forward free end thereof is adapted to fit into the notch 36 so as to normally hold the cap 30 in a predetermined position in relation to the lever 41 and for normally holding the cap in frictional tight engagement with the mouth-piece 13. It is to be noted also at this point that the extreme lower end of the cap 30 is provided with an ear 38 which is adapted to engage the lower surface of the mouth-piece 13 for normally preventing accidental movement of the cap.

In applying the improved device to the telephone B the supporting portion 20 is slipped down over the head and the hook portion 46 of the slide bar 45 is swung over the receiver hook 15. The disk-shaped head 43 is then pushed into the socket 44 and the cap 30 positioned over the open end of the mouth-piece 13. The device is now ready for operation, and it can be seen that when the receiver 16 is lifted off of the hook 15, that upon upward movement of the hook, that the slide bar 45 will be raised therewith, which in turn will operate the lever 41 and swing down the cap 31 away from and below the mouth-piece 13. This will permit the person using the phone to speak directly into the mouthpiece and the attachment will not form any hindrance to the person speaking.

It is obvious that the disinfectant 33 contained in the cap will effectively keep the mouth-piece in a sanitary condition and thus prevent the spreading of diseases.

Changes in details may be made without departing from the spirit or the scope of this invention.

What I claim as new is:—

1. The combination with a telephone including a supporting standard, a head, a transmitter pivoted to the head, a mouth-piece carried by the transmitter having an open end and a pivoted receiver hook projecting outwardly from the standard, of a sanitary attachment for the telephone comprising a supporting member including a hollow head arranged to slip over the head of the standard, a guide arm carried by the head, a slide bar reciprocally carried by the guide, means formed on the lower end of the slide bar for receiving the receiver hook for permitting synchronous movement of the slide bar and receiver hook, a disinfectant carrying cap arranged to normally overlie the open end of the mouth-piece, a lever pivoted at a point intermediate its ends to the supporting member, means connecting the forward end of the lever with

the lower end of the cap, and means operatively connecting the lower end of the lever with the slide bar.

2. The combination with a telephone including a standard, a head formed on the standard, a transmitter, a pivot bolt connecting the transmitter with the head, a mouth-piece having an open end for the transmitter, a pivoted receiver hook projecting laterally of the standard, of a sanitary attachment for the telephone including a hollow head having parallel side walls arranged to slide over the upper end of the head of the standard, the side walls having struckout guides therein for receiving the terminals of the pivot bolt, a depending guide arm carried by the hollow head, a slide bar reciprocally mounted on the guide arm having a socket formed in its upper end and a hook formed on its lower end for receiving the receiver hook, an arcuate lever pivoted at a point intermediate its ends to the guide arm and arranged to turn about the transmitter and to extend forwardly toward the open end of the mouth-piece, a disk-shaped extension

formed on the lever rearwardly of the pivot point and disposed in said socket, a cap pivotally connected to the forward end of the lever arranged to normally overlie the open end of the mouth piece, and spring means for normally holding the cap in a predetermined position in relation to said lever.

3. As a new article of manufacture, a sanitary telephone attachment comprising a hollow head arranged to receive the upper end of the telephone, a laterally projecting arm, a depending guide leg formed on the arm, a slide bar reciprocally mounted on the leg, means formed on the bar for engaging a receiver hook of a telephone, a lever secured to the leg, means connecting the inner end of the lever with the slide bar, and a pivoted cap carried by the outer end of the lever.

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

DAVID L. DAVIS.

Witnesses:

GEO. A. HALL,
MIRIAM L. DAVIS.