March 9, 1926. 1,575,732

F. H. BACHMAN

SHORT CIRCUIT SWITCH

Filed Feb. 21, 1924

Fig. 1.

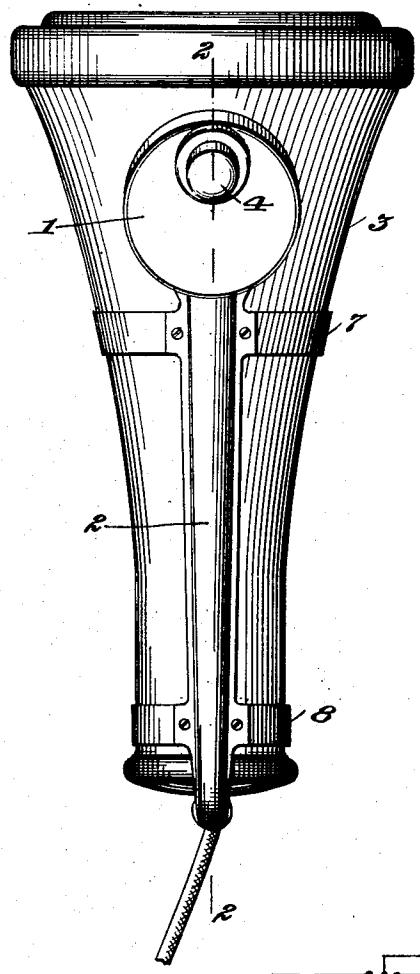


Fig. 2.

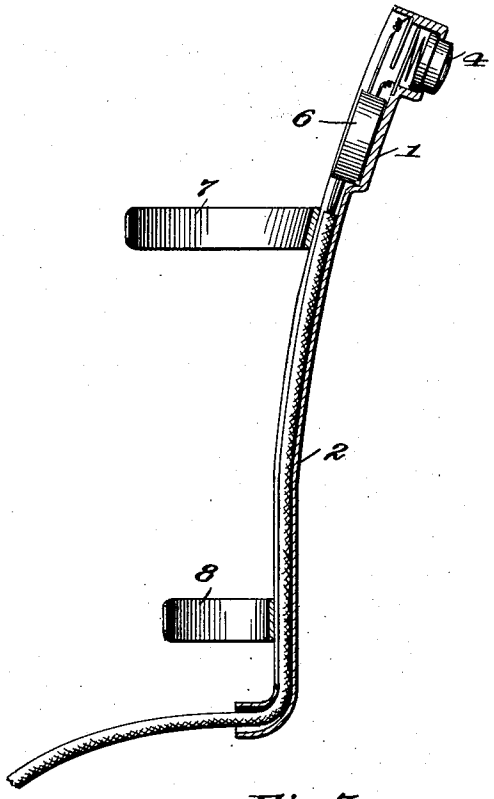
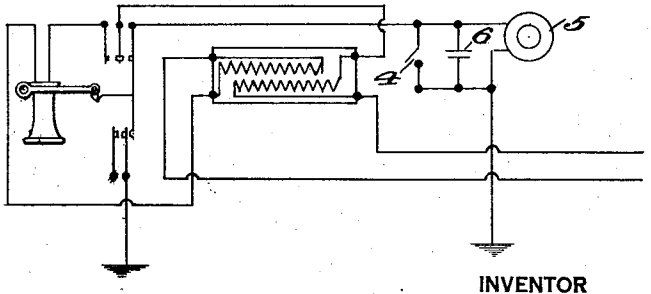


Fig. 3.



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UNITED STATES PATENT OFFICE.

FAYETTE H. BACHMAN, OF OAKLAND, CALIFORNIA.

SHORT-CIRCUIT SWITCH.

Application filed February 21, 1924. Serial No. 694,407.

To all whom it may concern:

Be it known that I, FAYETTE H. BACHMAN, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Short-Circuit Switches, of which the following is a specification.

My invention is a short circuit switch for telephone transmitter circuits.

The object of my invention is to provide a switch in the telephone transmitter circuit, which may be readily operated by the user of the telephone. Another object is to provide a switch which will short circuit the transmitter and enable the user to carry on an independent private conversation. Also local noises will be eliminated from the receiver. A further object is to provide a switch which may be readily attached to a receiver, and which is simple in construction and inexpensive to manufacture.

My short circuit switch is enclosed in a small cup and is of the push button type. In the cup I mount a small condenser parallel with the switch and extend lead wires to the transmitter circuit. A simple conduit extends from the cup and has two spring arms which are constructed of proper size to engage the ordinary commercial telephone receiver. In this manner the switch is placed on the receiver, but as a separate attachment and in a convenient position to be operated by the telephone user in order to break the transmitter circuit for the purposes above described.

In the annexed drawing in which my invention is illustrated, I have shown the preferred form, but it may also be embodied in other forms, and in this application I desire to cover my invention in whatever form it may be embodied.

Fig. 1 is a side view of my switch secured to a telephone receiver,

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a wiring diagram of my switch.

Referring more particularly to the drawing, my switch comprises a cup 1, and a conduit 2 extending from said cup, and adapted to lie along the side of the telephone receiver 3 as shown in Fig. 1. The end of the conduit 2 extends over the end of the receiver to hold the conduit in place.

A switch button 4 of any desired type is positioned in the cup 1, and connected across the two leads of the receiver circuit 5, so that when the switch is closed the receiver will be short circuited, and out of operation.

To eliminate the click caused by closing the switch 4 a condenser 6 is connected in parallel with the said switch. This condenser is also placed in the cup 1, thus forming a compact structure.

The cup 1 and conduit 2 are secured to the receiver 3 by a pair of spring arms 7 and 8, suitably secured thereto, and encircling said receiver. The wires from the switch 4 extend through the conduit 2 and extend to the transmitter.

My short circuit switch may be considerably modified to suit different types of receivers and could readily be adapted for a holder having both the receiver and transmitter in the same mounting. The conduit 2 and clips 7 and 8 can be changed to suit different types of telephone implements, or the short circuit switch may be mounted as a separate desk attachment.

Having described my invention I claim:

1. A short circuit switch in a telephone transmitter circuit comprising a cup, a conduit extending from said cup and a push button switch in said cup the leads of which extend to the transmitter leads through said conduit and means to secure said cup and conduit to the telephone receiver.

2. A short circuit switch in a telephone transmitter circuit comprising a cup, a conduit extending from said cup and a push button switch in said cup the leads of which extend to the transmitter leads through said conduit and spring arms secured to said conduit and adapted to encircle the receiver.

3. A short circuit switch in a telephone transmitter circuit comprising a cup, a conduit extending from said cup, a push button switch in the cup, a condenser mounted in the said cup and connected in parallel with the switch, the leads of which extend to the transmitter leads through said conduit and spring arms secured to said conduit and adapted to encircle a receiver.

4. A short circuit switch in a telephone

transmitter circuit comprising a cup, a switch mounted therein, a condenser in the cup connected in parallel with the switch, leads therefrom to the transmitter leads, a framing supporting the cup and spring clips thereon adapted to attach the cup to a telephone receiver.

5. In a short circuit switch, adapted for a telephone transmitter circuit, a cup shaped device having an aperture for a push button, an elongated U-shaped trough adapted to form a conduit for wires and a plurality of spring clips attached to the conduit adapted to be secured to a telephone receiver.

In testimony whereof I affix my signature.

FAYETTE H. BACHMAN.