

H. E. SHREEVE.
MOUNTING FOR TELEPHONE INSTRUMENTS.
APPLICATION FILED AUG. 21, 1908.

931,231.

Patented Aug. 17, 1909.

Fig. 1.

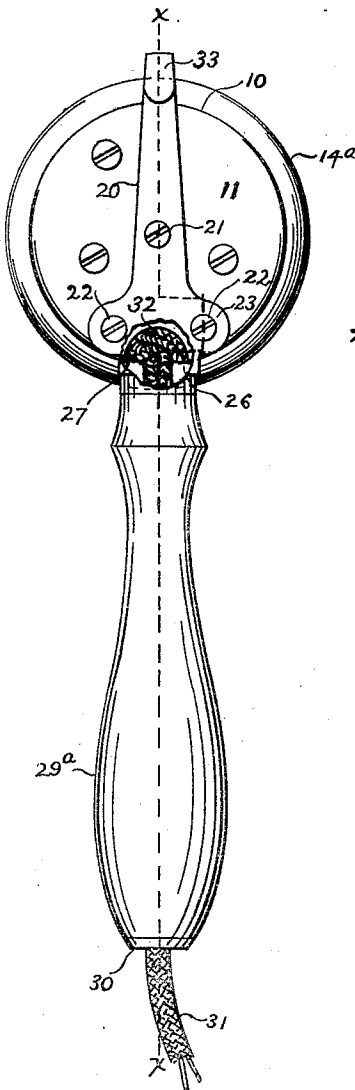


Fig. 2.

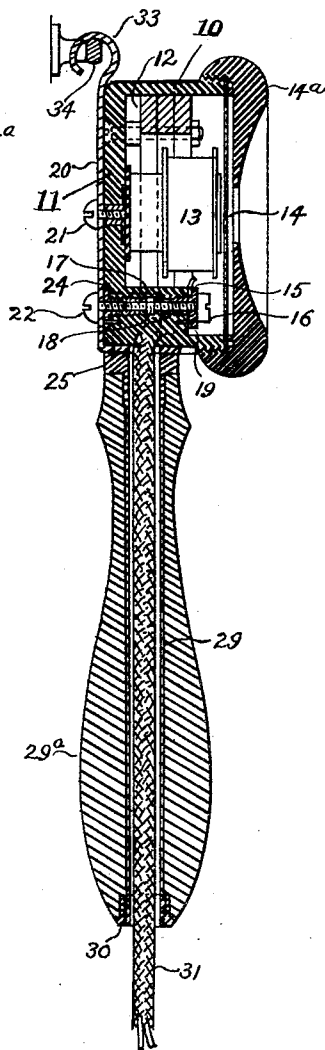
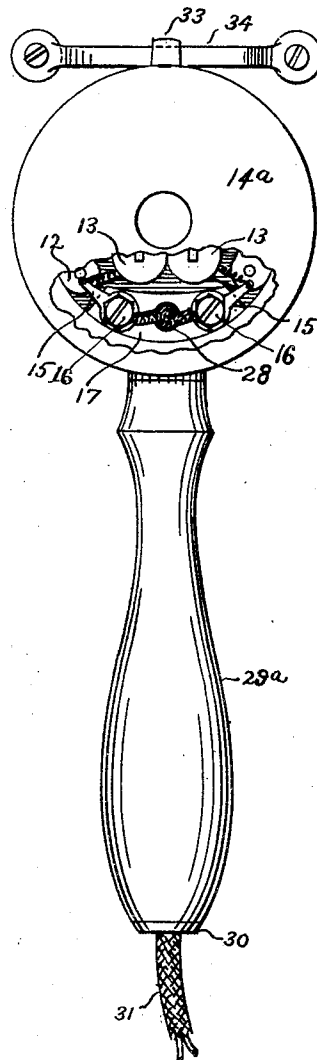


Fig. 3.



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UNITED STATES PATENT OFFICE.

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MOUNTING FOR TELEPHONE INSTRUMENTS.

No. 931,231.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed August 21, 1908. Serial No. 449,692.

To all whom it may concern:

Be it known that I, HERBERT E. SHREEVE, residing at Wyoming, in the county of Essex and State of New Jersey, have invented certain Improvements in Mountings for Telephone Instruments, of which the following is a specification.

This invention relates to telephone instruments and more particularly to mountings therefor.

Its principal objects are to provide a light and compact instrument, neat in appearance, which may be easily held by the user and readily hung up when not in use, and which offers considerable resistance to injury.

My invention has been illustrated in connection with a telephone receiver, Figure 1 being a rear elevation thereof, parts being broken away; Fig. 2 is a vertical section on line *a-a* of Fig. 1; and Fig. 3 is a front elevation with a portion of the cover of the transmitter broken away.

Throughout the figures of the drawing similar characters of reference are employed to designate like parts.

The telephone receiver which I prefer to employ is of the "watch-case" type, having a small cylindrical case 10, which may be of hard rubber, provided with an integral back 11 and being adapted to contain the active elements of the instrument. These elements consist of the permanent magnet 12 of the usual form, upon the pole pieces of which are the coils 13, 13, and a diaphragm 14 held upon the front of the case adjacent to the ends of the poles by the cover 14^a. The outer ends of the magnet coils are soldered to clips 15, 15, which are held by binding or terminal screws 16, 16 to the inner face of a block 17, situated at one side of the case and conveniently being of the same material. Holes 18 are bored entirely through the block and the back of the case, and at their inner ends are metallic bushings 19 into which are threaded the terminal screws.

To the back of the case is secured a metal plate 20, here shown as extending entirely across it. This plate throughout the greater portion of its length is relatively narrow and is fixed to the receiver by three screws, one 21 at the center of the case engaging a suitably bushed opening, and a pair 22, 22, pass-

ing through an enlargement 23 of the plate and entering the same bores as do the terminal screws. Bushings 24, 24, inserted in the outer ends of the holes 18 and spaced from the bushings 19, receive the screws 22. Beyond the enlargement 23 of the back plate is an angular extension 25 overlying the side of the case, where it contacts in part with a flat surface 26, and with the adjacent enlargement serves to cover a recess 27 in the case and in the block 17, which recess is connected with the interior of the case by a passage 28 opening between the terminals. Fixed to the extension 25 is a handle, preferably comprising an inner metal tube 29 the passage of which opens through the plate extension into the recess 27. Surrounding the tube is the handle proper 29^a, of some such material as hard rubber, so turned or molded that it may be conveniently grasped and being held upon the tube by a nut 30 threaded upon the outer end of said tube. Through the handle passes a double flexible cord 31, and by way of the recess 27 and passage 28 enters the case and has its extremities secured under the heads of the terminal screws. A knot 32 is so tied in the cord that it lies within the recess, and bearing upon the extension 25 removes all strain from the terminals.

At the opposite end of the back plate from the handle, where it is narrow, is a hook 33, preferably integral with the plate, for the purpose of supporting the instrument when it is not in service. As a coöperating member for the hook, I may employ a somewhat extended bar 34 for attachment to a desk or the like, this form of fixed support being readily engaged. As illustrated, the hook curves back over the case and its end is turned under and toward the plate so that there will be no sharp projection to mutilate objects with which it contacts. It will be observed that the handle and hook are directly joined by the back plate, so that in hanging up the receiver no strain can be brought upon the relatively frail case by a continued pull on the handle after the hook has engaged the rod. Separate connection of the handle and hook would render the case liable to be broken in this way, or the attaching screws or bushings wrenched out. Moreover, the plate acts as a stay or strength-

ening member for the case, and as a buffer which takes the blow of the rod as the hook is brought upon it.

I claim as my invention and desire to secure by Letters Patent:

1. A mounting for telephone instruments comprising a case, a back plate secured to the case, said back plate being provided at one end with a suspending means and at the other with an angular portion extending over the side of the casing, and a handle attached to the angular portion.

2. A mounting for telephone instruments comprising a hollow case adapted to contain elements of the instruments and having in its exterior a recess from which a passage extends to the interior, terminals situated within the casing, and a plate secured to the case, said plate covering the recess and having an extension beyond the case constituting a suspending means.

3. A mounting for telephone instruments comprising a hollow case adapted to contain

elements of the instruments and having in its exterior a recess from which a passage extends to the interior, terminals situated within the casing, a plate secured to the case and covering the recess, and a tubular handle fixed to the plate, the passage through the handle opening into the recess.

4. A telephone receiver comprising a case having a bore therethrough, separated bushings inserted in the opposite ends of the bore, a back plate for the case, a securing screw for the back plate engaging the outer bushing, and a terminal device cooperating with the inner bushing.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses, this eighteenth day of August 1908.

HERBERT E. SHREEVE.

Witnesses:

R. P. TRACY,
H. G. BRUSH.