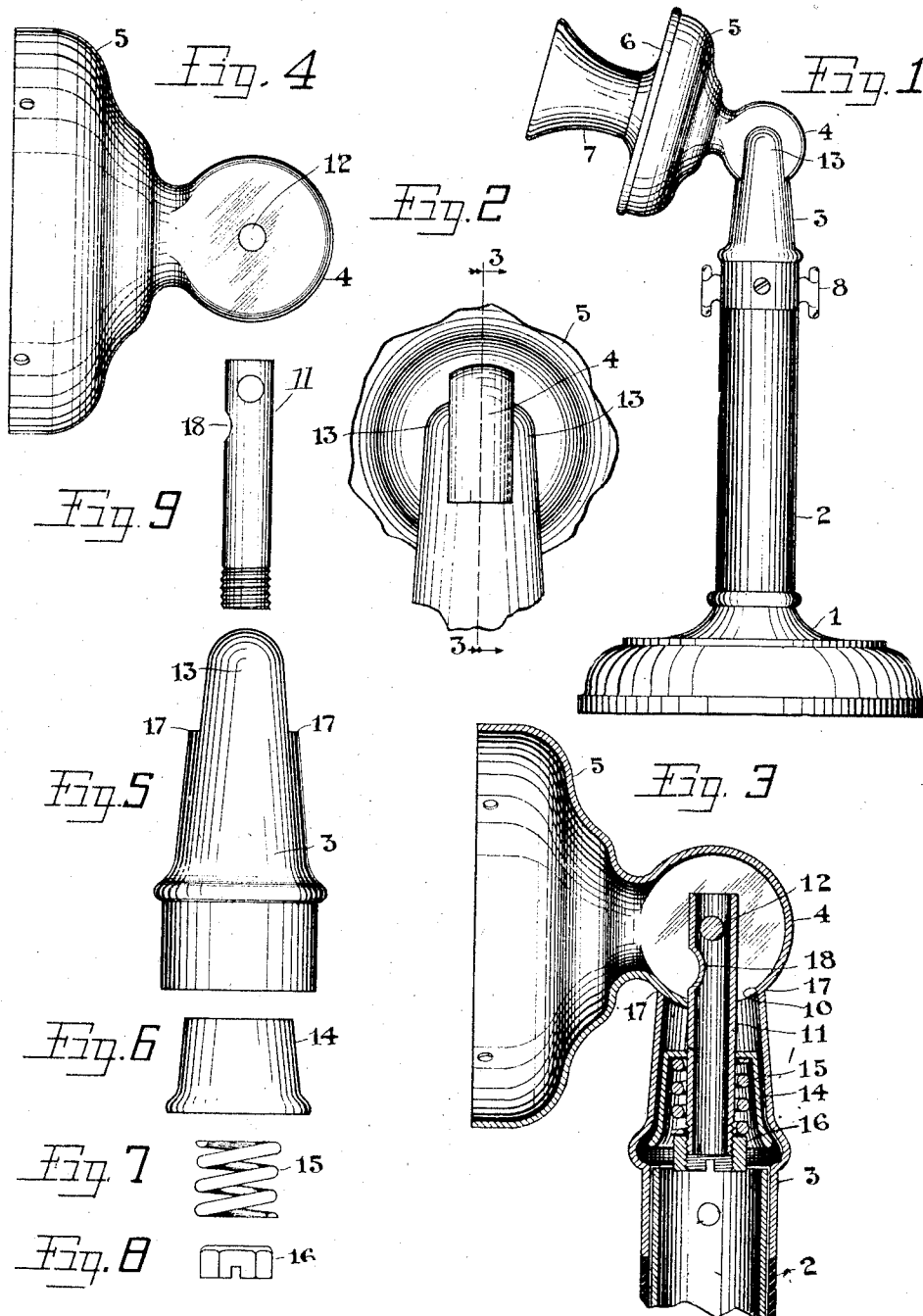


W. LEAVER.
TELEPHONE DESK STAND.
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977,658.

Patented Dec. 6, 1910.



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TELEPHONE DESK-STAND.

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To all whom it may concern:

Be it known that I, WILLIAM LEAVER, a citizen of the United States, residing in Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Telephone Desk-Stands, of which the following is a specification.

My invention relates to telephone desk stands and particularly to the desk stand head or the connection between the transmitter and the upright portion of the stand.

The object of my invention is to provide a desk stand head which shall have all of the apparatus concealed from view and one which shall be simple in its construction and strong and durable in its practical application.

A further object of my invention is to construct the transmitter back, casing and the supporting lug integral, whereby a rigid and very strong construction is secured and one which eliminates considerable time in manufacture. In former devices the casing and lug were made of two pieces and it was necessary to rivet or screw the parts together. By my invention this extra operation is eliminated and a transmitter of greater durability and one cheaper to manufacture is produced.

My invention is illustrated in the accompanying drawing in which,

Figure 1 is an elevation of the complete desk stand; Fig. 2 is a rear view of the assembled head; Fig. 3 is a section through the head on the line 3—3 of Fig. 2, and Figs. 4, 5, 6, 7, 8 and 9 are the dis-assembled parts of the head.

The external part of the desk stand here shown comprises the base 1, standard 2, cap 3, cylinder 4 and integral transmitter case 5, transmitter front 6, mouth-piece 7 and switch-hook 8. The particular parts of the desk stand with which my present invention relates are the cap 3, the cylinder 4 and integral case 5 and the other mechanism which is used in completing the working connection between these parts.

The cylinder 4 is preferably made of drawn stock integral with the case 5 of the transmitter though these may be made in two pieces without departing from the spirit or scope of my invention. This cylinder has the opening 10 through the lower wall through which the tube 11 passes. The pin 12 passes through the upper portion of this

tube completing a hinged joint between the tube and the side walls of the cylinder. The opening 10 is large enough to permit a slight amount of angular motion about the pin 12 such that the transmitter may be tilted slightly to suit the subscriber. The cap 3 is also preferably made of drawn stock and has the portions 13 extending one on each side of the cylinder 4 and fitting close against the cylinder covering up the heads of the pin 12 and completing the dust proof connection between the cap and the cylinder.

The inverted cup 14 is fitted within the hollow portion of the cap and forms the seat for the coil spring 15 which engages the nut 16 threaded upon the lower end of the tube 11 to hold the cylinder in tight frictional relation with the shoulders 17 of the cap. The conductors running from the electrodes of the transmitter are carried down through the tube 11, these conductors passing into the tube at the opening 18 below the pin 12. The cylinder 4 is preferably formed of sheet metal and made integral with the transmitter case 5, but it is to be understood that this cylinder may be made separately and attached in any desirable manner as has been before pointed out.

With desk stands to which my invention has been applied a given desired pressure may be produced between the periphery of the cylinder 4 and the shoulders 17 of the cap by the adjustment of the nut 16 upon the lower end of the tube 11, and this pressure will be constantly maintained by the pressure from the spring 15. Desk stands are often roughly handled and are sometimes permitted to fall to the floor and it has been found that with this construction sufficient strength is secured to withstand such accidents.

The freedom from external adjustments or thumb screws not only is of great advantage because preventing curious and inexperienced people from attempting to adjust or dis-assemble the device but also adds to the external appearance.

It is to be understood that certain details of the device here shown and described are not essential and that these details may be varied in many different ways without departing from the spirit or scope of my invention.

I claim:

1. In a desk stand, the combination with

- a standard, of a cap for said standard, an opening in the cap having a pair of parallel walls, a cylinder between said walls, and means independent of said parallel walls for holding the cylinder in position, substantially as described.
2. In a desk stand, the combination with a standard and a transmitter case, of a cylinder supporting the transmitter case and a cap supported by the standard, means secured within the cylinder and extending downward within the cap for securing the two together, said means being wholly concealed when the parts are completely assembled, substantially as described.
3. In a desk stand, the combination with a standard, of a cap for said standard having a slot in the top thereof, a transmitter casing having a member fitting within said slot, a pivot, means secured to said member by said pivot to hold said member movable in said slot, said pivot being wholly inside of said cap.
4. In a desk stand, the combination with a transmitter case, of a supporting member therefor having a curved face, a standard, a cap for said standard having a shoulder against which said curved face abuts, and a spring for holding the face and shoulder in frictional relation, substantially as described.
5. In a desk stand, the combination with a standard, of a slotted cap therefor, a cylindrical transmitter support, a pivot, means secured to said support by said pivot to hold said support movable in said slot in the said cap, said pivot being wholly inside of the said cap.
6. In a desk stand, the combination with a standard, of a conical cap therefor having a slot therein, a cylindrical transmitter support movably secured within the slot and resilient means within the cap for securing the cap and support together, substantially as described.
7. In a desk stand, the combination with a standard, of a conical cap therefor having a slot therein, a cylindrical transmitter support movably secured within the slot, and a spring within the cap for holding the cap and support in frictional relation, substantially as described.
8. In a desk stand, the combination with a standard, of a cap therefor having a slot therein, a transmitter support movably secured within the slot, a member secured within the support and extending downwardly within the cap, and a spring holding said cap and support in frictional relation by means of said member, substantially as described.
9. In a desk stand, the combination with a standard, of a cap therefor, a transmitter support movably secured to said cap, a tube secured within said support and extending downwardly within said cap, a spring about said tube and means upon said tube engaged by said spring to hold the support in frictional engagement within the cap, substantially as described.
10. In a desk stand, the combination with a standard, of a cap therefor, a transmitter support movably mounted upon the cap, a tubular member secured within said support and extending downwardly within said cap, a spring seat, engaging the inner wall of said cap, a spring about said tubular member engaging said seat, and adjustable means secured to said tubular member and engaging said spring to hold the support in frictional engagement with the cap, substantially as described.
11. In a desk stand, the combination with a standard of a hollow cap therefor, a hollow transmitter support, a tube secured within the support and extending downwardly within the hollow portion of the cap, a spring seat within the cap, a spring about said tubular member and abutting said spring seat, and a nut upon said tubular member and engaging said spring to adjust the frictional pressure between the transmitter support and the cap, substantially as described.
12. In a desk stand the combination with an upright member, of a transmitter movably supported thereon; connecting and adjusting means between said transmitter and its supporting member said means being entirely concealed, substantially as described.
13. In a desk stand, the combination with a transmitter casing, of a hollow supporting member therefor, a tubular member extending within the hollow portion thereof and pivoted thereto, and a desk stand cap having portions on each side of the supporting member, said portions concealing the ends of the pivot, substantially as described.
14. In a desk stand, the combination with a standard, of a cap therefor, a transmitter supporting lug movably secured in said cap, a tube pivoted in the lug and extending downward inside the cap, a pivot therefor extending through the tube, and lug, said cap having projections concealing the ends of said pivot, substantially as described.
15. In a telephone desk stand, the combination with a standard, of a cap for said standard, a transmitter supporting lug movably supported by said cap, and means within the cap for adjusting the frictional relation between the cap and transmitter supporting lug, whereby the fixed adjustment of the movable parts can only be changed by dis-assembling the desk stand, substantially as described.
16. In a desk stand, the combination with a standard, of a hollow cap therefor formed of pressed metal and having the wall of substantially uniform thickness throughout, the top of said cap having a transverse slot

therein, a transmitter case having a hollow cylinder extending therewith, said member fitting closely within the slot in said cap, the lower wall of said cylinder being adapted to engage the lower edges of said slot, a member pivotally secured at the center of the cylinder and extending downwardly within the cap through an opening in the lower side of the cylinder to hold the cylinder in place, the top of said cap on either side of said slot being adapted to conceal the end of the pivot

for securing the cylinder and the attaching member to the walls of the cap, substantially as described.

Signed by me at Chicago, county of Cook, 15
and State of Illinois, in the presence of two
witnesses.

WILLIAM LEAVER.

Witnesses:

CLIFFORD C. BRADBURY,
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