

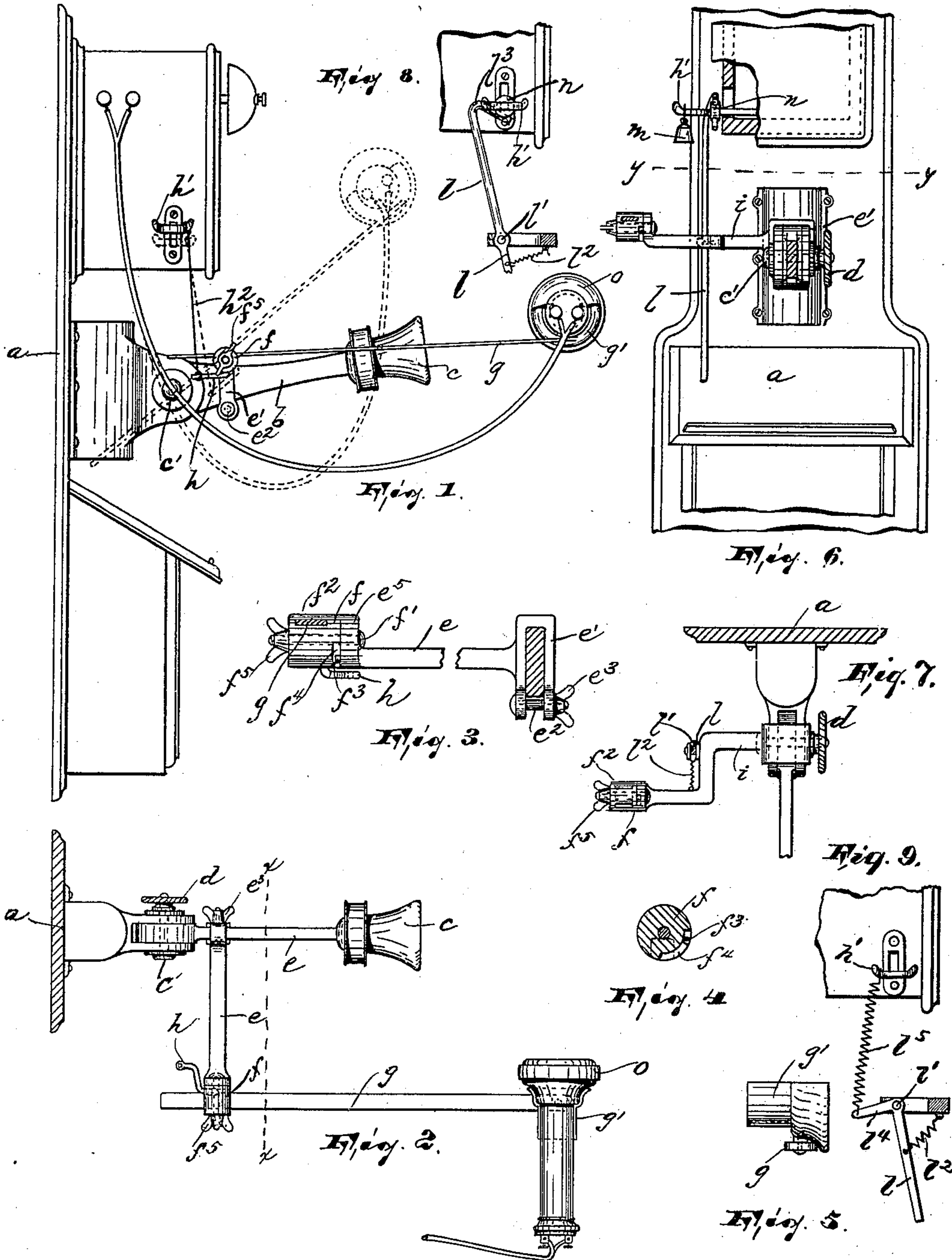
No. 619,493.

Patented Feb. 14, 1899.

F. LIND, JR.
TELEPHONE ATTACHMENT.

(Application filed Sept. 20, 1898.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

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TELEPHONE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 619,493, dated February 14, 1899.

Application filed September 20, 1898. Serial No. 691,422. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK LIND, JR., a citizen of the United States, residing in Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Telephone Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to supports for telephone-receivers; and the object of the invention is to provide a device of this nature which will be simple and inexpensive in construction and effective in operation.

The invention consists in the improved telephone-receiver support, in the combination of the same with a telephone and its receiver, and in the combination and arrangement of the various parts of said improved telephone-receiver support.

The invention is fully illustrated in the accompanying drawings, wherein like letters of reference indicate parts correspondingly referred to in this specification, and wherein—

Figure 1 is a side view of a telephone, its receiver, and a support for the receiver mounted on said telephone. Fig. 2 is a top plan view of the telephone-transmitter, the telephone-receiver, and the support for said receiver.

Fig. 3 is a sectional view taken on the line xx of Fig. 2 and looking toward the left. Figs. 4 and 5 are views of certain details of this invention. Figs. 6, 7, and 8 are views showing a certain modification of the invention, Fig. 6 being a front view of a telephone provided with the modification, Fig. 7 being a top plan view taken on the line yy of Fig. 6, and Fig. 8 being a side view of a portion of the mechanism shown in Fig. 6; and Fig. 9 is a side view of a portion of a telephone instrument provided with a certain other modification of my invention.

In the drawings, a indicates a telephone provided with an arm b , carrying the transmitter c and hinged on the pin c' for vertical movement, the freedom of movement of said arm about the pin c' being controlled by a thumb-screw d .

The transmitter-arm b carries a laterally-

projecting extension e , adjustably secured to said arm by means of a bifurcated clamp e' , integrally formed with said extension and having its members connected at their extremities by means of a bolt e^2 , provided with a thumb-screw e^3 . At the outer or free end of said extension is swiveled on the bolt f' , projecting through an integral enlargement e^5 of the extension, a block f , having a transverse orifice f^2 projecting therethrough and situated off the center thereof. The face of the extension which is adjacent to the block is provided with a pin f^3 , which projects into an arc-shaped slot or depression f^4 in the adjoining face of the block. If desired, the block may be provided with the pin and the enlargement with the slot. This arrangement is designed to limit the movement of the block about the bolt. Its freedom of movement is, like that of the transmitter-arm, controlled by a thumb-screw f^5 , engaging the threaded end of the bolt f' . Projecting through the orifice in the block is the receiver-support g , carrying at its end a suitable rest for the receiver o of the instrument, a preferred form of which I have shown in the enlarged view, Fig. 5, and which consists of a socket g' , which conforms to the shape of the receiver. The receiver-support is longitudinally movable in the block and the socket is swiveled thereon. Projecting rearwardly from the block is a hook h , which is connected to the usual hanger h' of the telephone instrument by means of a cord, wire, or spring h^2 .

From the foregoing it will be seen that when the telephone is not being used the receiver-support carried in the block may be swung up into a position shown in dotted lines in Fig. 1, thereby through the intermediate element h^2 drawing down the hanger h' , which, it is to be remembered, also constitutes a circuit-closing device or switch adapted to throw in and out of circuit, according to its position, the bells of the instrument, as well as the transmitter and the receiver. When it is desired to use the telephone, it is only necessary to draw the receiver-support downwardly into the position shown in full lines in Fig. 1. The operator may adjust the receiver-support, as desired, upward and downward about the bolt f' or backward and forward in the block.

In the modifications shown in Figs. 6, 7, and 8 the extension i is an angular one and, like

the extension *e*, is provided at one end with the integral bifurcated clamp *e'*, the members of the latter being penetrated by the pin *c'* of the transmitter-arm. The extension carries
 5 at its end the receiver-support, the rest for the receiver mounted thereon, and the swiveled block whereby the receiver-support is sustained on the extension, all arranged substantially as shown in Figs. 1 to 5, inclusive,
 10 so that the receiver is adjustable upwardly and downwardly, as well as longitudinally, with its support.

The means for operating the hanger *h'* of the telephone consists of a lever *l*, fulcrumed
 15 at *l'* on the extension, connected to the same by a spring *l²*, and having its upper end *l³* bent forwardly at an acute angle to said lever. The bent portion of said lever is adapted to wipe against the under side of and thus raise
 20 the hanger when the operator presses the lower end of the lever inwardly. The hanger is normally held down by the weight *m*, carried upon its free end. In order to obviate unnecessary friction between the lever and
 25 the hanger, a grooved roller *n* may be journaled upon the latter.

As shown in Fig. 9, the lever *l*, instead of having the bent portion, may be simply a bell-crank lever, to whose arm *l⁴* the hanger is con-
 30 nected by means of a cord, wire, or spring *l⁵*. In this modification the weight may be dispensed with.

In the modifications which I have described the receiver-support is not connected to, and
 35 hence does not control, the movements of the hanger. The operator simply presses against the lower end of the lever, as has been described, in order to operate the switch or circuit-closer which the hanger constitutes.

40 I do not wish to be limited to the exact construction shown and described; but

What I do claim, and desire to secure by Letters Patent, is—

1. The combination, with the receiver, a fulcrumed transmitter-arm and the switch hook
 45 or hanger of a telephone, of an extension secured to, and movable with, said transmitter-arm, a longitudinally-adjustable support for the receiver swiveled to the end of said extension and means operatively connecting
 50 said extension to said switch hook or hanger, substantially as described.

2. The combination, with the receiver, a fulcrumed transmitter-arm and the switch hook
 55 or hanger of a telephone, of an extension secured to, and movable with, said transmitter-arm, a block swiveled to the end of said extension, means operatively connecting said block to said switch hook or hanger, and a
 60 longitudinally-adjustable support for the receiver mounted in the block, substantially as described.

3. The combination, with the receiver, a fulcrumed transmitter-arm and the switch hook
 65 or hanger of a telephone, of an extension secured to, and movable with, said transmitter-arm, and provided with an enlargement at

its free end, a bolt penetrating said enlargement and provided with a thumb-screw, a
 70 block adjustably swiveled on said bolt and provided with a hook, means for operatively connecting said hook and the hanger, a pin-and-slot arrangement between the enlargement and the block for limiting the move-
 75 ment of the latter and a longitudinally-adjustable support for the receiver mounted in the block, substantially as described.

4. The combination with a receiver, a fulcrumed transmitter-arm and a switch hook
 80 or hanger of a telephone, of an extension having an integral clamp at one end for securing it to the transmitter-arm and an integral enlargement at its other end, a bolt penetrating said enlargement and provided with a
 85 thumb-screw, a block adjustably swiveled on said bolt and provided with a hook, means for connecting said hook and the hanger, and secured to the latter in proximity to the fulcrum-axis of said fulcrumed arm, a pin-and-
 90 slot arrangement between the enlargement and the block for limiting the movement of the latter, and a longitudinally-adjustable support for the receiver mounted in the block, substantially as described.

5. The combination with a telephone-re-
 95 ceiver and switch hook or hanger, of an extension secured to a portion of the telephone instrument, a receiver-support mounted on said extension and a lever fulcrumed on said extension and having a wiping engagement
 100 with the hanger, substantially as described.

6. The combination with a telephone-re-
 105 ceiver and a weighted switch hook or hanger, of an extension secured to a portion of the telephone instrument, a receiver-support mounted on said extension, a grooved roller mounted on said hanger, and a bent lever fulcrumed on said extension and having its bent portion bearing against said roller, sub-
 110 stantially as described.

7. The combination with a receiver, a weighted switch hook or hanger carrying a
 grooved roller and a fulcrumed transmitter-arm of a telephone instrument, of a pin forming a fulcrum for said transmitter-arm and
 115 provided with a thumb-screw, an angular extension having a bifurcated integral clamp at one end adjustably mounted on said pin and an integral enlargement at the other end, a block adjustably swiveled to said enlarge-
 120 ment, a longitudinally-adjustable receiver-support mounted on said block, and a bent lever fulcrumed in said extension and connected to the same by a spring and adapted to engage said roller with its bent portion,
 125 substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of September, 1898.

FREDERICK LIND, JR.

Witnesses:

JOHN W. STEWARD,
 ALFRED GARTNER.