No. 864,382. PATENTED AUG. 27. 1907.

J. S. MILLS.

SUPPORT FOR TELEPHONE RECEIVERS.

APPLICATION FILED JAN. 21, 1907.

2 SHEETS—SHEET 1.

FIG. 2

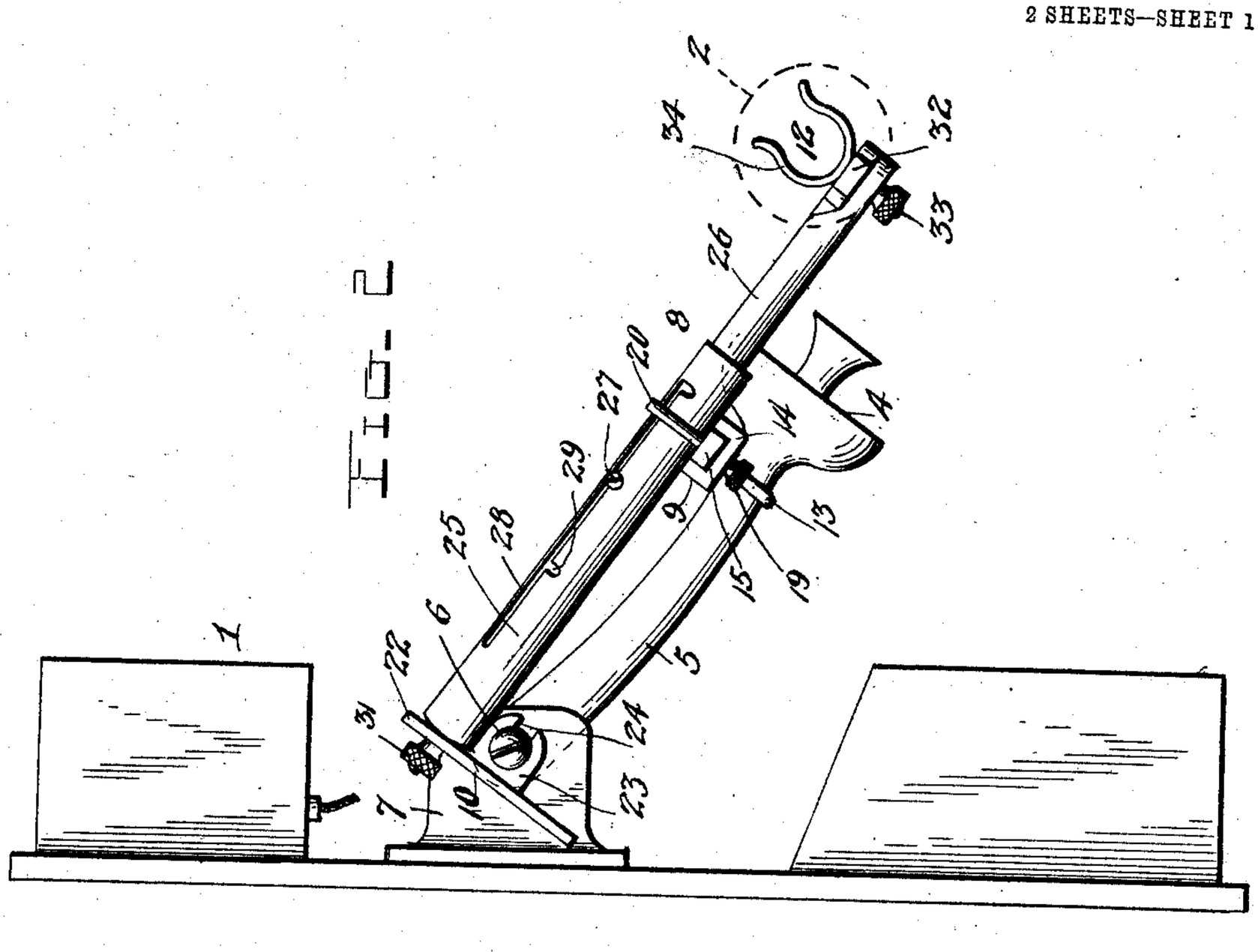
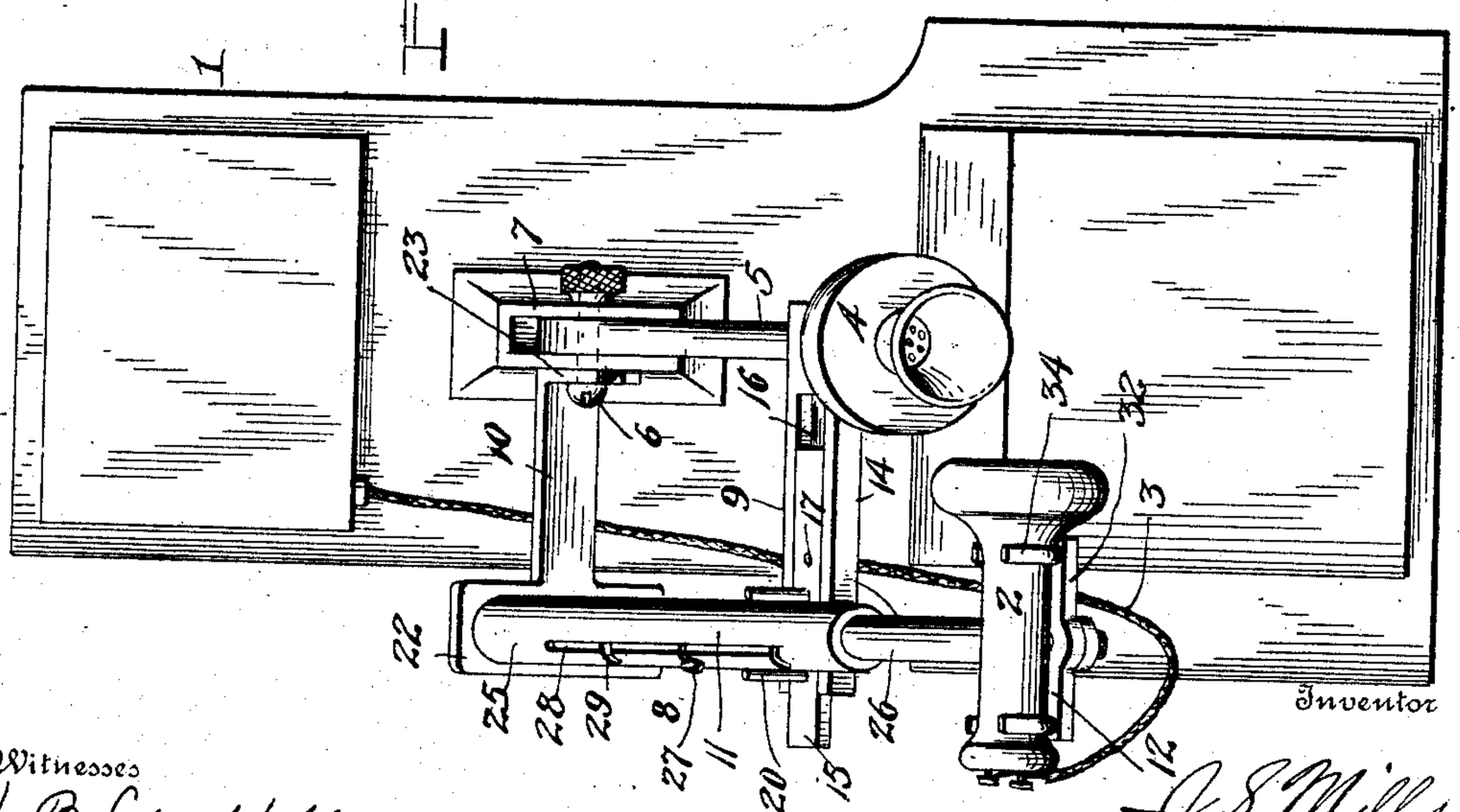


FIG. 1



Witnesses
N. B. Campbell
L. O. Little

Inventor
J. S. Mills
By
Watson E. Coleman
Attorney

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2 SHEETS—SHEET 2.

FIG. 3

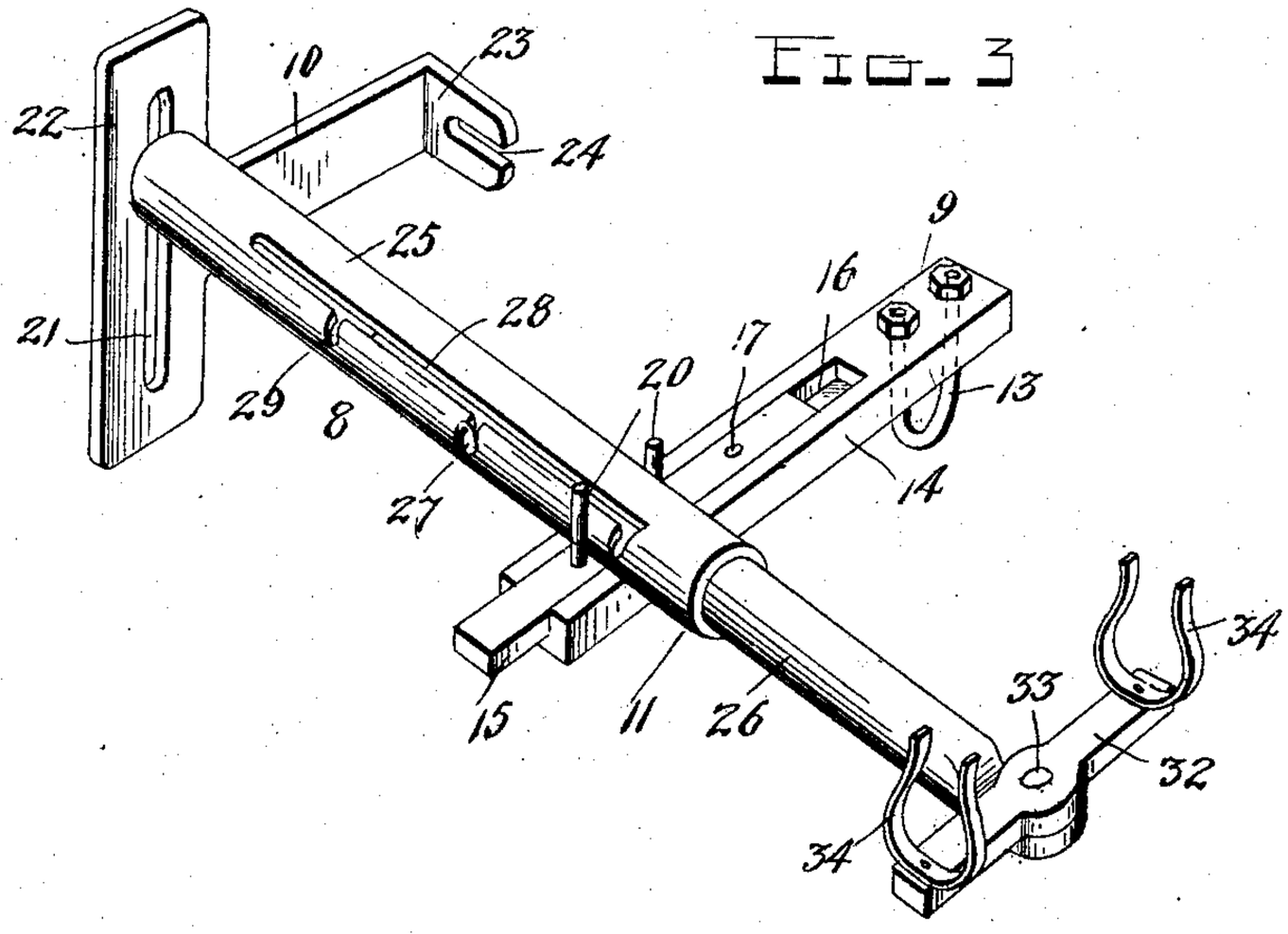
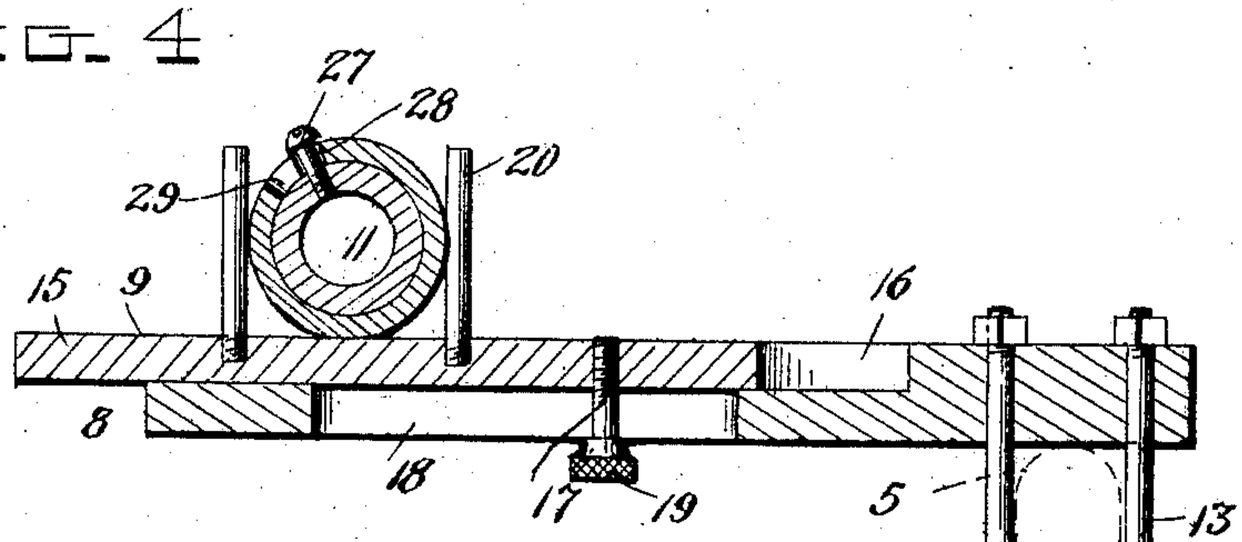


FIG. 4



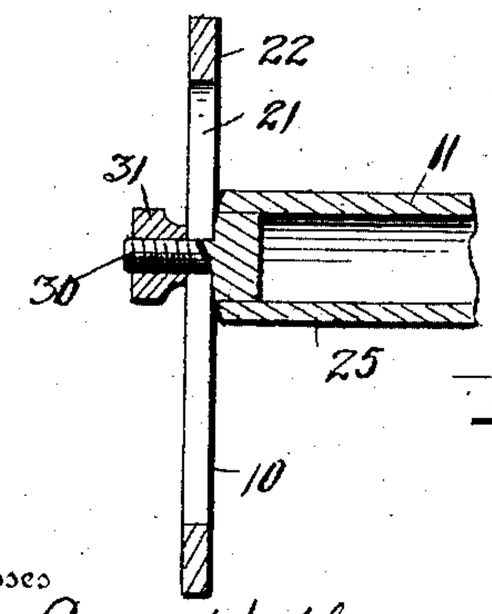


FIG. 5

Witnesses
H. B. Campbell
L. O. Little

Inventor
J. S. Mills

By
Watson E. Coleman
Attorney

UNITED STATES PATENT OFFICE.

JOHN S. MILLS, OF NEW GRENADA, PENNSYLVANIA.

SUPPORT FOR TELEPHONE-RECEIVERS.

No. 864,382. Specification of Letters Patent. Patented Aug. 27, 1907.

Application filed January 21, 1907. Serial No. 353,363.

To all whom it may concern:

Be it known that I, JOHN S. MILLS, a citizen of the United States, residing at New Grenada, in the county of Fulton and State of Pennsylvania, have invented certain new and useful Improvements in Supports for Telephone-Receivers, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in supporting devices for holding telephone receivers.

The object of the invention is to provide a simple, convenient and practical device of this character which may be readily adjusted so that the receiver will be properly held to the ear of the person using the telephone.

Another object of the invention is to provide a supporting device of this character from which the receiver may be readily removed should the user desire to hold the same to his ear.

Another object of the invention is to provide a supporting device of this character which is carried by the swinging arm which supports the transmitter so that the device and the receiver upon it will be raised and lowered with the transmitter.

Further objects and advantages of the invention, as well as the structural features by means of which these objects are attained, will be made clear by an examination of the following specification taken in connection with the accompanying drawings, in which

Figure 1 is a front elevation of a wall telephone showing the application of my invention thereto, the transmitter arm being shown in its lowered position to more clearly illustrate the invention; Fig. 2 is a side elevation of the parts shown in Fig. 1; Fig. 3 is a perspective view of the supporting device removed from the telephone; Fig. 4 is a sectional view through the adjustable front bracket; and Fig. 5 is a detail section through the rear bracket.

While my invention may be adapted for use in connection with telephones of any description, the present embodiment is especially adapted for use upon the well known form of wall telephone illustrated in Figs. 1 and 2 of the drawings. This telephone 1 has its receiver 2 connected to the flexible conductor cord 3 and its transmitter 4 mounted upon the outer end of a vertically swinging arm 5 pivoted at its inner end by a pivot bolt 6 in a bearing bracket 7 arranged centrally upon the base off the telephone.

My improved adjustable supporting device 8 for the receiver 2 consists of front and rear brackets 9, 10 carrying an extensible arm 11 upon which latter is mounted a holder 12 for the receiver. The front bracket 9 is clamped by means of the clip or U-shaped bolt 13 or in any other suitable manner upon the outer end of the transmitter arm 5 and extends laterally to one side of the telephone as shown. This bracket is adjustable longitudinally so that the receiver may be adjusted laterally toward and from the transmittter, said adjustment of the bracket being effected by forming it of two parts 14, 15, the latter of which slides within the groove or channel 16 formed in the top of the inner or stationary part 14. The sliding part or member 15 is retained in the groove 16 and clamped in an adjusted position by a clamping bolt 17 which passes through and slides in a longitudinal slot 18 formed in the bottom of the channel or groove 16, as clearly shown in Fig. 4. The screw 17 has a milled head 19 engaged with the bottom of the bracket and its upper threaded end is screwed into the member 15. Projecting upwardly upon the extensible member 15 of the bracket are two spaced pins 20 adapted to receive the arm 11 between them and to retain the latter upon the bracket 9. The rear bracket 10 is in the form of a substantially T-shaped plate having a longitudinal slot 21 in its cross portion 22 and having its other end 23 bent at right angles and formed with a slot or notch 24 adapted to receive the pivot bolt 6 when said end 23 is inserted between the outer face of the bracket 7 and the head of the pivot bolt 6, as shown in Figs. 1 and 2. The extensible arm or support 11 is preferably composed of two telescoping tubular sections 25, 26 having a pin and slot connection whereby one may be retained in an adjusted position with respect to the other. The section 26 slides within the section 25 and carries a radially projecting pin 27 which projects through and slides in a longitudinal slot 28 formed in the section 25 and having in one of its walls notches or seats 29 for the reception of said pin. The latter is preferably in the form of a screw as shown in Fig. 4 so that when it is removed from the section 26 said section may be removed from the section 25. The inner or rear end of the section 25 is adjustably connected to the slotted cross portion 22 of the rear bracket 10 so that the receiver may be adjusted vertically with respect to the transmitter. This connection is preferably effected by providing upon one end of the section 25 a threaded stud 30 which projects through and slides in the slot 21 in the bracket 10 and which has upon its end a milled clamping nut 31, as clearly shown in Fig. 5. The holder 12 for the receiver is in the form of a cross bar 32 pivoted centrally upon the outer front end of the arm section 26 by a pivot 33 which may be in the form of a bolt so that said holder will permit it to be turned angularly with respect to the arm and at the same time be frictionally retained in its adjusted position. Upon the opposite ends of the cross piece 32 are provided clips 34 in which the receiver 2 may be placed.

The construction, use and advantages of the invention will be readily seen upon reference to the drawings.

It will be noted that the device may be quickly

and easily applied to the telephone by simply loosening the pivot bolt 6 sufficiently to permit the slotted end 23 of the rear bracket to be slipped beneath the head of the bolt, and by passing the clip 13 around the transmitter arm 5 and then tightening the nuts upon said clip. When thus applied the sliding part 15 of the front bracket is adjusted by means of the clamping bolt 17 so that the receiver will be held at a proper distance to one side of the transmitter, and the rear end of the arm 11 is then adjusted vertically in the slotted portion of the rear bracket so that the receiver will be held at the desired elevation. The receiver may be adjusted forwardly and rearwardly by turning the arm section 26 sufficiently to disengage the pin 27 from one of the seats 29 and then sliding the arm section 26. When these parts are once adjusted no further change is necessary since the device will be adapted for the use of a person of any stature, it being noted that owing to the manner in which the support is applied to the transmitter arm it will be raised and lowered as the transmitter is raised and lowered. The receiver may be readily removed from the clips 34 of the holder 12 so that the user may hold the receiver in his hand, but when it is supported by the device it will be held properly to his ear and give him the free use of both of his hands for writing messages as they are received or for other purposes.

While I have shown and described the preferred embodiment of my invention it will be understood that I do not limit myself to the precise showing herein set forth and that various changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention as defined by the appended claims.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. A device of the character described comprising front and rear brackets and a receiver supporting arm loosely supported upon the front bracket and vertically adjustable upon the rear bracket.

2. A device of the character described comprising front and rear brackets, an extensible member upon the front bracket and a receiver supporting arm loosely mounted upon the extensible member of the front bracket and vertically adjustable upon the rear bracket.

3. A device of the character described comprising front and rear brackets and an extensible receiver supporting arm adjustable horizontally upon the front bracket and adjustable vertically upon the rear bracket.

4. A device of the character described comprising front and rear brackets, an extensible receiver supporting arm adjustable horizontally upon the front bracket and adjustable vertically upon the rear bracket, and a pivoted receiver holder upon the outer end of said extensible arm.

5. A device of the character described comprising a substantially T-shaped rear bracket having a slotted cross portion and a bent end notched to receive the pivot bolt of a transmitter arm, an extensible front bracket consisting of slidably connected members, means for connecting one of said members to a transmitter arm, and a receiver supporting arm mounted upon the sliding member of the front bracket and adjustable vertically in the slot in the cross portion of the rear bracket.

6. A device of the character described comprising a substantially T-shaped rear bracket having a slotted cross portion and a bent end notched to receive the pivot bolt of a transmitter arm, an extensible front bracket consisting of slidably connected members, means for connecting one of said members to a transmitter arm, a receiver supporting arm mounted upon the sliding member of the front bracket and adjustable in the slotted cross portion of the rear bracket, said arm consisting of telescoping members having a slot and pin connection, and a receiver holder pivoted upon the outer end of said extensible arm.

7. A device of the character described comprising a substantially T-shaped rear bracket having a slotted cross portion and a bent end notched to receive the pivot bolt of a transmitter arm, an extensible front bracket consisting of slidably connected members, means for connecting one of said members to a transmitter arm, spaced pins upon the slidable member of the front bracket, an extensible arm arranged between said pins and adjustably connected at its rear end to the slotted cross portion of the rear bracket, said arm consisting of telescoping sections a slot and pin connection between the sections of said arm, a cross piece pivoted upon the outer end of said arm and clips upon said cross piece for the reception of a receiver.

8. The combination with a telephone having a swinging transmitter arm, and a pivot therefor, of an adjustable support for a telephone receiver mounted upon the transmitter arm and its pivot for a swinging movement with the transmitter arm, substantially as described.

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

JOHN S. MILLS.

Witnesses:
JESSE LANE,
W. M. CLIPPINGER.