J. H. W. CHAMPION.

TELEPHONE ATTACHMENT.

APPLICATION FILED NOV. 4, 1914.

1,153,029.

Patented Sept. 7, 1915.

2 SHEETS—SHEET 1.

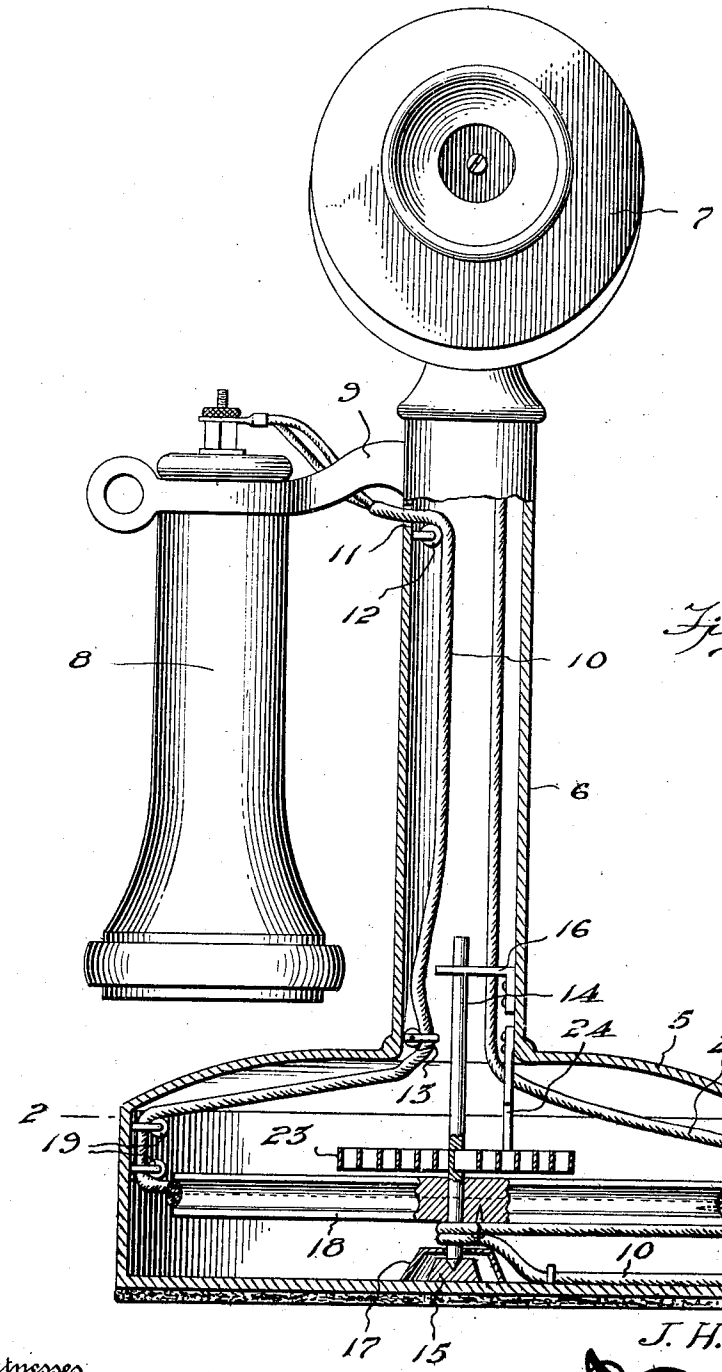


Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

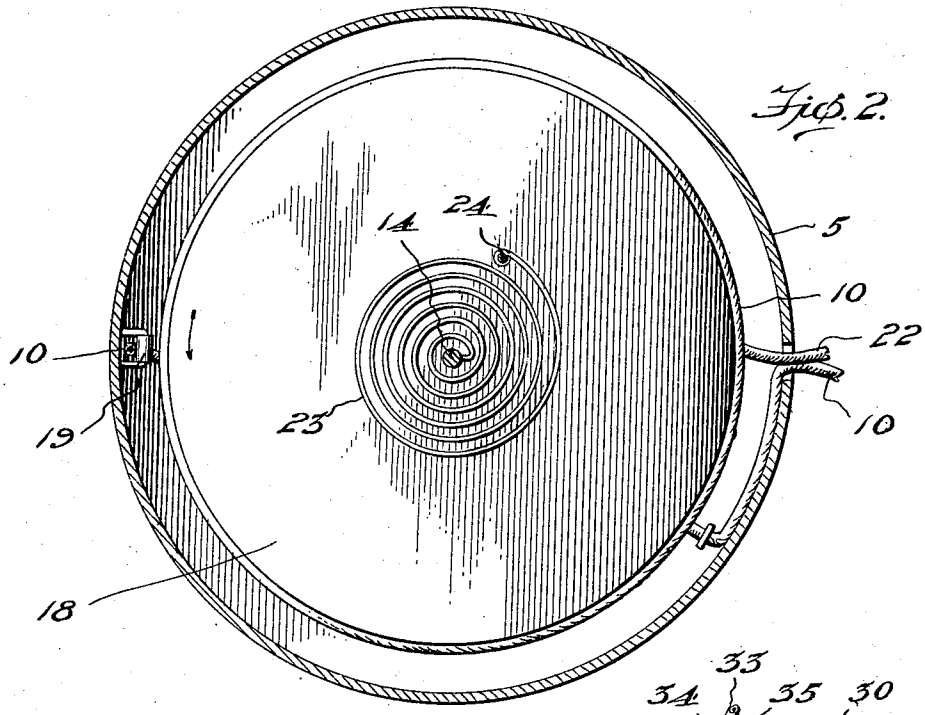
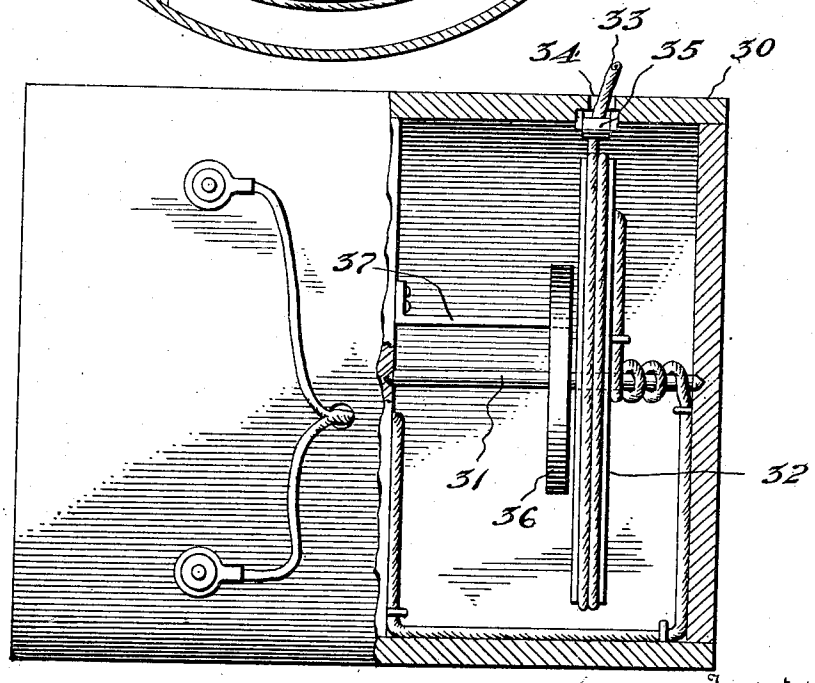


Fig. 3.



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UNITED STATES PATENT OFFICE.

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TELEPHONE ATTACHMENT.

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To all whom it may concern:

Be it known that I, JOHN H. W. CHAMPION, a citizen of the United States, residing at Hermon, in the county of Los Angeles and State of California, 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.

This invention relates to an attachment for telephones, and more particularly to an attachment especially designed for use in connection with desk or portable telephones.

The invention has for its object to provide a novel and efficient device housed within the base of the telephone for taking up the wires connected with the receiver.

With this and other objects in view, the invention consists in the novel construction, arrangement and formation of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a front elevation of a telephone, partly in section, showing the application thereto of the attachment. Fig. 2 represents a horizontal sectional view on the line 2—2 of Fig. 1, and Fig. 3 represents a front elevation, partly broken away, of the box of a stationary telephone, illustrating the application of the attachment thereto.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates the base of a portable telephone preferably of hollow formation and communicating with the hollow standard 6 at the upper end of which is pivotally secured the usual transmitter designated generally by the numeral 7. The receiver 8 is adapted, when not in use, to be supported upon the pivoted arm, designated generally by the numeral 9 and pivotally secured in the usual manner within the hollow standard 6. The wires 10 connecting with the receiver 8 are extended through an opening 11 in the standard 6 directly below the arm 9 and are extended under pulleys 12 and 13. The lower pulley 13 is preferably provided with a guard for preventing the wire 10 from moving out of engagement with the pulley.

A vertically disposed shaft 14 is arranged centrally within the base 5 and projects a short distance upwardly within the standard 6 and the lower end thereof is pointed and rotatably mounted upon a bearing block 15, the upper end being rotatably supported in the apertured end of an arm 15 secured within the lower portion of the standard 6. A guard 17 incloses the bearing block 15 and is secured to the bottom of the base 5 for a purpose which will hereinafter appear. A winding drum or pulley 18 is keyed upon the lower portion of the shaft 14 in spaced relation above the guard 17 and is formed with a deep circumferential groove or channel to receive the wire 10, as the latter is wound thereon. From the lower pulley 13 the wire 10 extends into the hollow base 5 and is positioned under pulleys 19 secured to the side wall of said base and is coiled, when the receiver 8 is positioned upon the hook 9 several times about the pulley 18, as illustrated in Fig. 1. At one point, the wire 10 is secured in the groove of the pulley 18 by a pin or staple 20 and is extended under said pulley and coiled several times about the shaft 14 between the pulley 18 and the guard 17. From the shaft 14 the cord or wire 10 is extended along the bottom of the base 5 and outwardly through an opening 21 in the side wall of the base, together with the wire or wires 22 connecting with the transmitter 7.

One end of a coil spring 23 is secured to the shaft 14 and the opposite end is secured to an arm 24 secured to and depending from the hollow standard 6. The tension of the spring 23 tends to turn the pulley 18 in the direction of the arrow indicated in Fig. 2 to wind the wire 10 thereon.

In use, when it is desired to use the telephone the receiver 8 is lifted from the arm 9 in the usual manner and moved to any desired position relative to the standard 6, the wire being withdrawn from the standard and unwound from the grooved pulley 18 against the tension of the spring 23. When the receiver 8 is replaced upon the hook 9 the tension of the spring 23 automatically rotates the pulley 8, winding the wire 10 thereon and drawing the latter entirely within the standard 6 and hollow base 5. It will be understood that as the wheel 18 is rotated and the wire 10 wound and unwound from the pulley 18 that portion of the wire extending below the pulley is alternately wound and unwound from the shaft 14 and is prevented from injury by contact with the block 15 by the guard 17.

Referring to the modification illustrated in Fig. 3, the numeral 30 indicates a battery or other box in which is rotatably mounted a shaft 31 carrying a grooved pulley 32 intermediate its ends, the telephone wire 33 is extended through an aperture 34 in the wall of box 30, over a small pulley 35 secured to the inner face of the wall of said box and is coiled several times upon the pulley 32. The wire 33 is secured in the groove of the pulley 32 at one point, is extended along one face of the pulley and coiled several times about the shaft 31. The pulley 32 is actuated to wind the wire 33 thereon by the tension of a spring 36 secured at one end to the shaft 31 and at the opposite end to an arm 37 secured in the box 30.

What I claim is:—

1. In combination, a telephone including a hollow base having an aperture and a hollow standard communicating therewith and having a second aperture therein, a wire extending through said second aperture and into said hollow base, a shaft rotatably mounted in said base, a winding drum or pulley secured to said shaft in spaced relation to the bottom of said hollow base, a bearing block rotatably supporting the lower extremity of said shaft, a guard arranged over said bearing block, said wire extending through said aperture and coiled upon said winding drum or pulley and the portion of said shaft intermediate said pulley and said guard.

2. In combination, a telephone including a hollow base and a hollow upstanding standard having an aperture adjacent its upper end, a wire extending through said aperture, downwardly through said standard and into said hollow base, a shaft rotatably mounted in said hollow base, a grooved pulley secured to said shaft and arranged in spaced relation to the bottom of said hollow base, means securing said wire in the groove of said pulley, said wire being extended over said pulley and coiled about said shaft, and means normally tending to rotate said pulley to wind said wire thereon.

3. In combination, a telephone including a hollow base and a hollow standard communicating therewith and having an aperture adjacent its upper end, a shaft rotatably mounted in said hollow base, a bearing block rotatably receiving the lower end of said shaft, a guard arranged over said bearing block, a pulley secured to said shaft in spaced relation to said guard and having a peripheral groove, a wire extending through said aperture, downwardly within said standard, into said hollow base and positioned in the groove in said pulley, means securing said wire in said groove, said wire extending under said pulley and being coiled about said shaft intermediate said pulley and said guard, and means normally tending to rotate said pulley to wind said wire thereon.

4. In combination, a telephone including a hollow base and an upstanding standard having an aperture therein, a wire extending through said aperture, downwardly through said standard and into said hollow base, a shaft rotatably supported in said hollow base, a grooved pulley secured on said shaft and arranged in spaced relation to the bottom of said hollow base, said wire being extended over said pulley and coiled about said shaft, and means normally tending to rotate said pulley to wind said wire thereon.

5. In combination, a telephone including a hollow base and a hollow standard communicating therewith and having an aperture adjacent one end thereof, a shaft rotatably mounted in said hollow base, a bearing block rotatably receiving the lower extremity of said shaft, a guard arranged over said bearing block, a pulley secured to said shaft in spaced relation to said guard and having a peripheral groove, a wire extending through said aperture, downwardly within said standard, into said hollow base and positioned in the groove in said pulley, means securing said wire in said groove, said wire extending under said pulley and being coiled about said shaft intermediate said pulley and said guard, means normally tending to rotate said pulley to wind said wire thereon, and means arranged in said hollow base and standard for guiding said wire therethrough.

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

JOHN H. W. CHAMPION.

Witnesses:
W. M. COWSERT,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."