

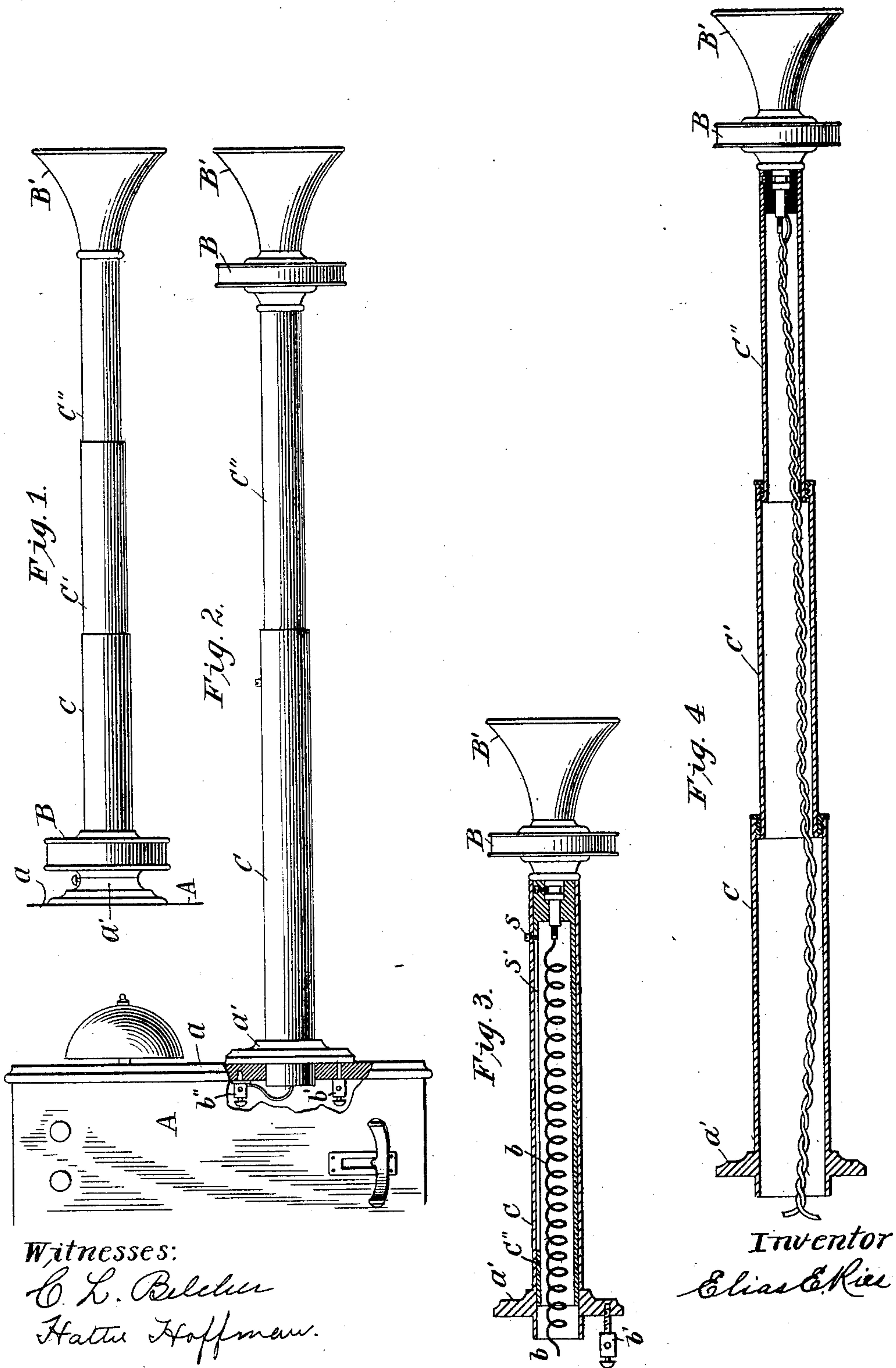
No. 681,812.

Patented Sept. 3, 1901.

E. E. RIES.  
SUPPORT FOR TELEPHONE APPARATUS.

(Application filed Sept. 19, 1898.)

(No Model.)





# UNITED STATES PATENT OFFICE.

ELIAS E. RIES, OF NEW YORK, N. Y.

## SUPPORT FOR TELEPHONE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 681,812, dated September 3, 1901.

Application filed September 19, 1898. Serial No. 691,389. (No model.)

*To all whom it may concern:*

Be it known that I, ELIAS E. RIES, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Supports for Telephone Apparatus, of which the following is a specification.

My invention relates to supports for telephone instruments, and more especially to the mounting of telephone-transmitters designed for use on desks and other places where the subscriber using the same is so seated or located with reference to the instrument that either an inconveniently-projecting stationary telephone apparatus or an equally objectionable portable transmitter outfit has heretofore been necessary in order to bring the mouthpiece of the transmitter within proper operative proximity to the subscriber or user during conversation.

The objects of my invention are to obviate the necessity for such objectionable stationary instruments and for portable telephone instruments of the type heretofore known as "desk sets," which latter have been found to be open to the objection that they are frequently in the way of books, papers, &c., lying about on the desk or table upon which the instrument is to be used, as well as to provide a neat, compact, convenient, and attractive transmitter outfit for desk and other use that is free from the objections just cited and which possesses other incidental advantages.

These objects I accomplish by supporting the transmitter proper upon an extensible tube or other support interposed between said transmitter or its mouthpiece and the stationary base-board or box containing the remaining portions of the transmitting outfit in such a manner that the mouthpiece or its support may be pushed back out of the way when not in use and that it may be readily extended or moved toward the lips when it is desired to converse over the line, particularly at such times when it is desirable for privacy or other reasons to speak in a low tone or voice.

In carrying out my invention I mount the transmitter-diaphragm, together with its mouthpiece, at the forward end of said extensible support and utilize said support as a duct for one or more flexible wires that are

designed to carry the currents produced in the transmitter-circuit when the apparatus is in use.

Figure 1 is a side elevation, extended, of one form of my invention in which the mouthpiece and the transmitter proper are mounted together upon the outer end of the extensible supporting arm or tube. Fig. 2 is a longitudinal section of the tubular support illustrated in Fig. 1 as it appears when closed. Fig. 3 is a longitudinal section of a three-section telescopic transmitter-support, showing the transmitter conducting-cords lying within the same.

Referring to the drawings, *a* is a base-board or support, which may be the front of a box *A*, containing the induction-coil, call-bell, and other accessory telephone apparatus that is fastened to a suitable support—as, for example, the inside back of a roll-top desk. The front of the base *a* is reinforced by a suitable socket *a'*. The transmitter *B* and its mouthpiece *B'* are mounted together upon the end of the inner tube-section. In Figs. 1 and 2 the extensible support consists of two tube-sections *C* and *C''*, which latter serve as the electrical conductors leading from one terminal of the microphone to the binding-post *b'* of the transmitter-circuit. The other terminal of the microphone is connected by a flexible conducting spring or wire *b*, extending through the tube to the binding-post *b''* of this circuit. To prevent undue twisting of the conducting-spring *b*, the inner tube *C''* may be grooved or slotted, as shown at *s'* of Fig. 2, said groove or slot being engaged by a stop-screw *s* in the outer tube *C*. The base or socket *a'* is in this case preferably made in the form of a flanged sleeve, which is brazed or otherwise secured to the outer tube *C* at or near its rear end. In Fig. 3 I have shown an extensible support, also made of three telescopic sections, the transmitter-conductors being shown in the form of an ordinary conducting-cord containing a pair of insulated twisted conductors, the transmitter being in this instance insulated from the tube proper by a rearward projection of insulation which extends into the last section of the tube and through which the terminals of the transmitter pass.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

5 In a telephone apparatus, the combination with a base-board or box carrying the stationary portion of said apparatus, of a transmitter arm or support consisting of a tube composed of telescoping sections and secured at its base to the base-board or box, a transmitter having attached thereto a projection  
10 of insulation extending into the end of the last of said sections the electric terminals of the transmitter extending into the tube through said projection, and flexible insu-

lated conductors extending from said terminals through the telescopic tube to the apparatus at the box or base-board, substantially as and for the purpose set forth. 15

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 8th day of September, 1898. 20

ELIAS E. RIES.

Witnesses:

WM. H. CAPEL,  
HATTIE HOFFMAN.