

(No Model.)

C. W. DENNIS.
RECEIVER FOR TELEPHONES, PHONOGRAPHS, OR SIMILAR INSTRUMENTS.
No. 582,901. Patented May 18, 1897.

Fig. 1

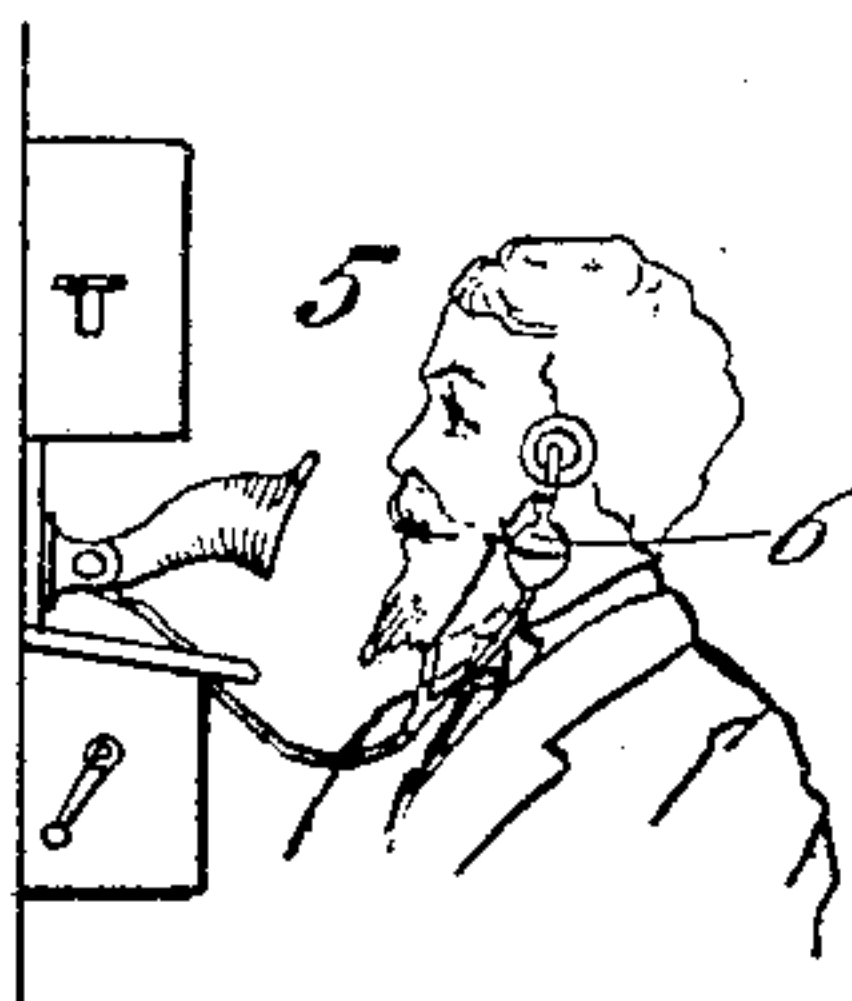
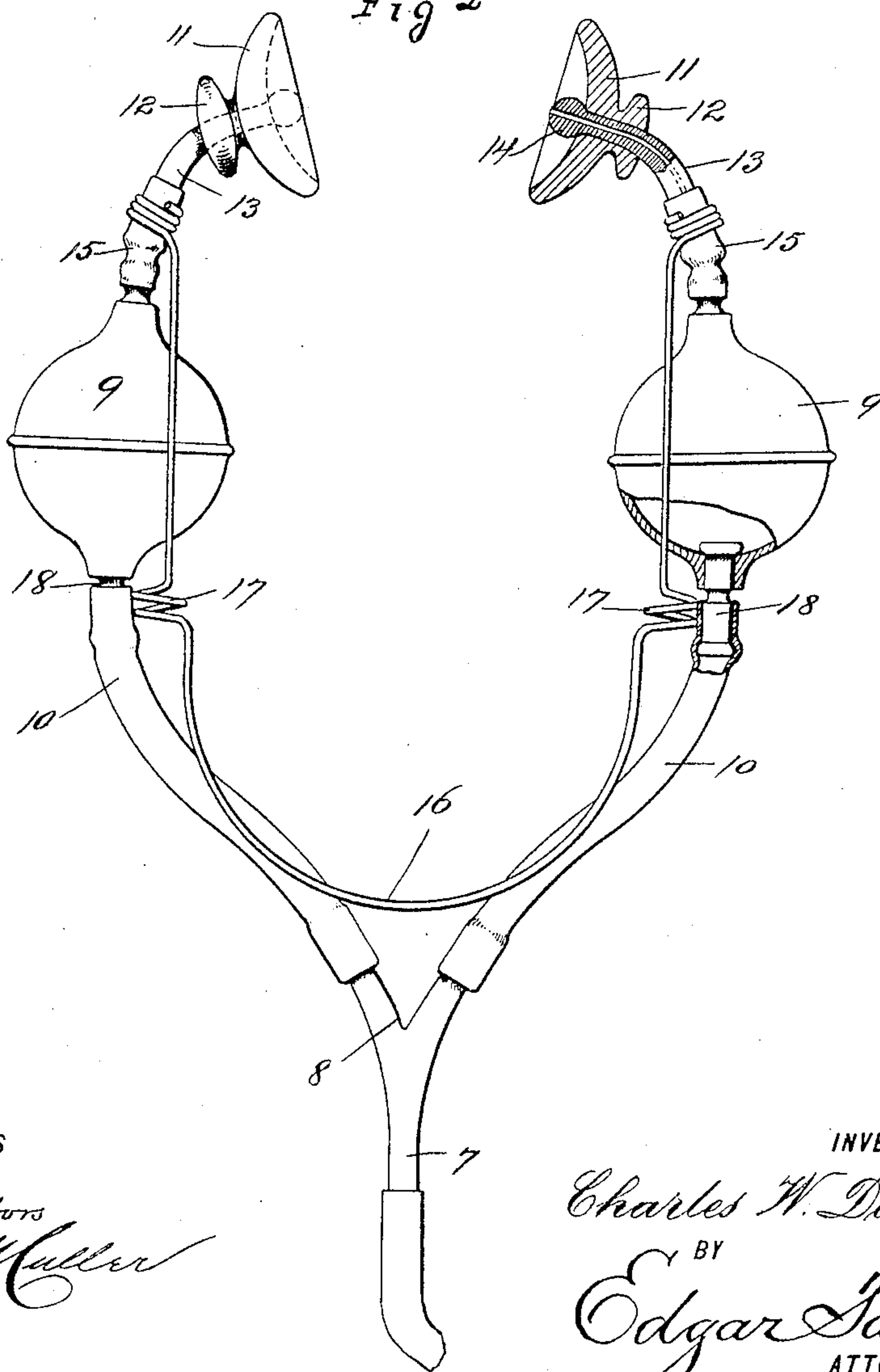


Fig. 2



WITNESSES

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RECEIVER FOR TELEPHONES, PHONOGRAPHS, OR SIMILAR INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 582,901, dated May 18, 1897.

Application filed August 7, 1896. Serial No. 601,985. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. DENNIS, a citizen of the United States, and a resident of King's Ferry, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Receivers for Telephones, Phonographs, or Similar Instruments, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts wherever found throughout the several views.

This invention relates to receivers for phonographs, telephones, and similar instruments; and the object thereof is to provide an improved device of this class in which the receiver cord or tube is provided with a hollow ball or bulb, which is placed therein and with which the receiver proper is connected, whereby the volume of sound passing through the receiver is increased and the receiver rendered more efficient, a further object being to provide a double receiver, or one in which the receiver tube or cord is divided and the separate parts of which are each provided with a receiver proper, each part being also provided with a hollow ball or bulb, which is placed therein for the purpose above specified, and the receivers being also provided with a wire spring or similar device, by which they are held in connection with the ears.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a side view of my improved apparatus, showing the method of the operation thereof; and Fig. 2, a sectional side view of the apparatus.

In the drawings forming part of this specification I have shown, reference being made to Fig. 1, an ordinary telephonic device provided with a transmitter 5 and my improved receiver 6, and I have also shown the manner of using the same, and in Fig. 2 I have shown the receiver detached and the method of its construction.

My improved receiver consists of the receiver tube or cord 7, which is divided or branched at 8, and in practice I employ a hollow rubber ball or bulb 9, which is connected

with each of the branches 10, and the receiver proper or earpieces 11 are connected with the balls or bulbs 7, as clearly shown in Fig. 2.

Each of the receivers proper or the earpieces 11 is cup or dish shaped in form, and are provided with shanks, on which are formed knobs or heads 12, and passing therethrough is a short tube 13, which is preferably composed of hard rubber, and provided at its outer end with a head 14, the form of these parts being that usually employed, and the tubes 13 are preferably curved, as shown, and connected with the balls or bulbs 9 by flexible tubes 15, and I also provide a spring-wire yoke 16, the ends of which are wound around the lower ends of the tubes 13 or around that part of the flexible tubes 5 which is connected therewith, and the said spring-yoke is preferably provided in each of its sides with spring-coils 17, so as to increase the elasticity and spring action thereof, and I also preferably connect the balls or bulbs 9 with the branches of the receiver tube or cord 7 by means of flexible rubber tubes, which are connected with tubular coupling heads or pieces 18, which are also connected with said balls or bulbs.

In practice I prefer to make the hollow balls or bulbs 9 of soft rubber, such as is usually employed in syringes or similar devices; but said balls or bulbs may be made of hard rubber, if desired. The object of these balls or bulbs is to increase the volume of sound which passes through the receivers, and experience has shown that they accomplish this object in a highly satisfactory manner.

My invention is not limited to the material of which the balls or bulbs 9 are composed, nor of which the receivers proper or the tubes which are connected therewith are composed, and it is evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages. The spring-yoke 16 serves to hold the receivers proper when connected with the ears or applied thereto, as shown in Fig. 1, thus leaving the hands free, and my invention is not limited to this form of the device, the invention consisting principally in the employment of the ball or bulb 9, which may be connected with a single receiver, if desired.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. As a new article of manufacture a receiver for telephones, phonographs and similar instruments, consisting of a flexible tube adapted to engage the instrument in any desired manner, branches formed from said tube, a hollow rubber ball or bulb in connection therewith, balls or bulbs forming earpieces and secured to the outer end of said branches, a short tube having a head at one end thereof secured to said branches, shanks secured on said tubes and earpieces secured on said shanks, and a spring-yoke in connection with the said earpieces and adapted to hold the receiver in position, said parts being combined substantially as and for the purpose described.
2. As a new article of manufacture a receiver for telephones, phonographs and simi-

lar instruments consisting of a receiving tube or cord having branches engaging the same, a hollow rubber ball or bulb secured to each of the branches, earpieces, shanks secured thereon, heads on said shanks, a short tube which passes therethrough, a head on the end of said tube, said tubes engaging said balls or bulbs, a spring-wire yoke engaging the lower ends of said tubes, spring-coils in the sides of said yoke, all of the said parts being combined substantially as and for the purpose described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of August, 1896.

CHARLES W. DENNIS.

Witnesses:

W. W. HILL,
CHARLES S. ROGERS.