C. M. WILLIAMS.

AUDIPHONE.

APPLICATION FILED SEPT. 13, 1916.

1,253,656. Patented Jan. 15, 1918.

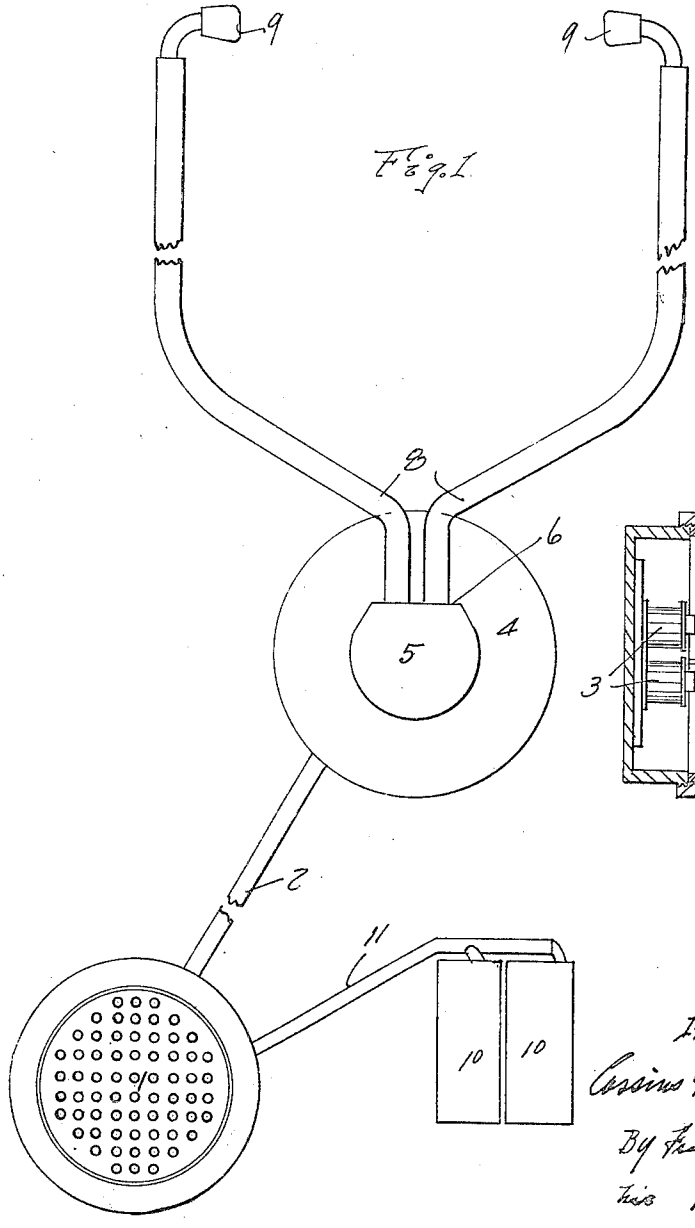



Fig. 1.

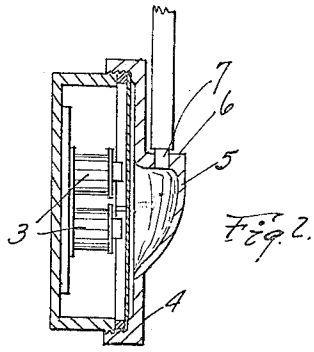



Fig. 2.

Inventor
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By Fred D. Gunn
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# UNITED STATES PATENT OFFICE.

CASSIUS M. WILLIAMS, OF SEATTLE, WASHINGTON, ASSIGNOR OF ONE-HALF TO UNIVERSAL HIGH POWER TELEPHONE COMPANY, OF KING COUNTY, WASHINGTON.

## AUDIPHONE.

1,253,656. Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed September 13, 1916. Serial No. 119,360.

*To all whom it may concern:*

Be it known that I, CASSIUS M. WILLIAMS, a citizen of the United States, and a resident of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Audiphones, of which the following is a full, true, and exact specification.

My invention relates to audiphones and more particularly to that class of audiphones which are used as ear phones for people who are hard of hearing. The principal objects of my invention are to provide a simple and novel means of transmitting the sound from the receiver to the ear without the necessity of having to hold the receiver against the ear as is usual. Another object of my device is to provide an improved form of receiver cap to which tubes which lead to the ears may be easily attached. The people who are hard of hearing are generally very sensitive upon this particular subject and do not like to hold a large and cumbersome receiver up to their ear while one is talking to them; moreover, it requires the use of one hand to hold the receiver against the ear which seriously handicaps the user physically. My device is designed to provide a connection between the receiver and the ears which attracts but very little attention, is mostly concealed in the clothing which does not require holding up to the ear. In my device the receiver and ear phone proper, as well as the batteries, are concealed in the clothing so that no part of the device excepting two small tubes which lead to the ears are ordinarily visible.

In the drawings, Figure 1 is an elevation of my device with parts broken away. Fig. 2 is a central vertical section of the receiver of my device.

Referring more particularly to the drawings, numeral 1 indicates an ear phone proper of usual construction which is electrically connected by means of cable 2 to magnets 3 of the receiver. The receiver includes a special cap 4 having a raised dome 5 centrally located thereon. The dome 5 is provided with a straight face 6 through which two tapered holes pass which receive tapered tubular connections 7 which are joined to sound tubes 8. Sound tubes 8 lead one to either ear and are provided with tips 9 upon their outer ends. Batteries 10 are electrically connected by a cable 11 to ear phone which thus completes the circuit between the batteries and the receiver. The batteries, ear phone and receiver are concealed in the pockets of the clothing of the wearer and the small tubes 8 only rise above the coat collar and lead to the ears.

While I have shown a particular form of embodiment of my invention, I am aware that many minor changes therein will readily suggest themselves to others skilled in the art without departing from the spirit and scope of the invention, and I therefore desire to avoid being limited to the exact form shown and described.

Having described my invention, what I claim as new and desire to protect by Letters Patent, is—

A receiver for an audiphone comprising a cylindrical casing, a diaphragm in the casing, a cap having an annular flange engaging over the open end of the casing and holding the diaphragm in position, said cap having a centrally disposed hollow boss on its front face, the top of the boss being flat and formed with a pair of openings, the lower end of the boss inclining downwardly and merging into the cap, and ear tubes fitted into the openings in the hollow boss.

CASSIUS M. WILLIAMS.