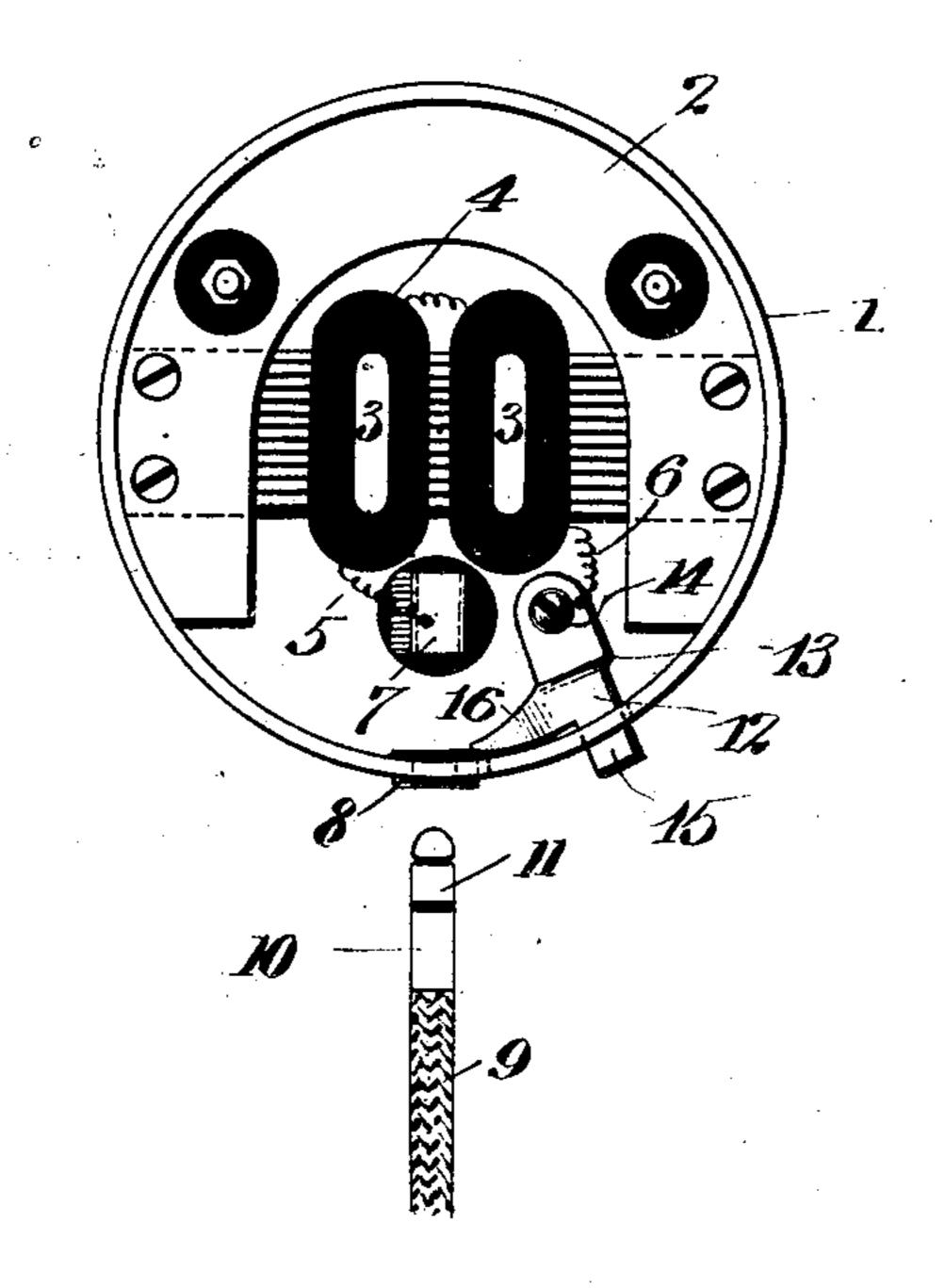
No. 843,891.

PATENTED FEB. 12, 1907.

H. W. HAFF.
TELEPHONE RECEIVER.
APPLICATION FILED AUG. 27, 1906.



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Hawell W. Haff

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UNITED STATES PATENT OFFICE.

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TELEPHONE-RECEIVER.

No. 843,891.

Specification of Letters Patent.

Application filed August 27, 1906. Serial No. 332,094.

To all whom it may concern.

Be it known that I, Howell W. Haff, a citizen of the United States, residing at New York, in the county of New York and State 5 of New York, have invented certain new and useful Improvements in Telephone-Receivers, of which the following is a full, clear, and exact description.

My invention relates to telephonic re-10 ceivers, and particularly those used with acousticon and other apparatus for deaf persons.

The principal object of the invention is to improve the mechanical features of construc-15 tion, and particularly the switch mechanism by which the receiver is thrown into and out of action.

With this and other-objects in view the invention consists in the features of construc-20 tion hereinafter set forth and claimed.

The figure of the drawing illustrates a receiver embodying the principles of my invention.

For the purpose of economizing battery-25 current in telephonic apparatus of the character above mentioned it is customary to have a switch embodied in the receiver, which normally maintains the battery-circuit opened, but which is in a convenient 30 place for engagement with the operator's fingers, so that the circuit may be closed for operation whenever desired. Inasmuch as the available space within the receiver is limited, it is a matter of considerable difficulty to ar-35 range this switch to work positively and efficiently under all circumstances. In carrying out my invention I aim to secure these purposes with a switch of very cheap and simple construction.

Referring to the drawing, 1 denotes the casing of a receiver having a permanent magnet 2 inset therein.

3 indicate the usual magnet-poles of soft iron, carrying bobbins 4.

The terminal wires of the bobbins are shown at 5 and 6, of which 5 is soldered to a

collar 7 in alinement with a hole 8 in the casing. The terminal 6 is connected to the switch element hereinafter described.

For the purpose of conveniently making 50 the electrical connection with the receiver I employ an ordinary plug 9, having a sleevecontact 10 and a tip-contact 11, for the respective circuit-wires. The plug is adapted to be inserted through the bushed hole 8, so 55 that the tip-contact 11 enters the collar 7 and makes electrical contact therewith. The sleeve-contact 10 lies adjacent to the bushed hole 8 under these circumstances and falls in the path of the switch element above re- 60 ferred to.

The switch element (designated at 12) is conveniently made of sheet metal bent right angularly at the point 13 and pivoted at 14 to the casing 1. By reason of the bent por- 65 tion 13 the outer part of the switch element is raised from the bottom of the casing and has a lug 15 extending therethrough, by which it may be engaged and moved.

16 indicates a prong on the switch element 70 which is capable of being moved beneath and into spring engagement with the sleeve-contact above described. When the switch element is moved into this relation, it is evident that the electric circuit for the receiver is 75 complete.

What I claim is—

In a telephone instrument, a collar constituting a fixed electrical terminal, a switch element also constituting an electrical terminal 80 and having means thereon whereby it may be moved to and fro by hand manipulation, and a plug having a tip-contact adapted to enter said collar and having a sleeve-contact adapted to fall into the path of said switch 85 element.

In witness whereof I subscribe my signature in the presence of two witnesses.

HOWELL W. HAFF.

Witnesses:

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