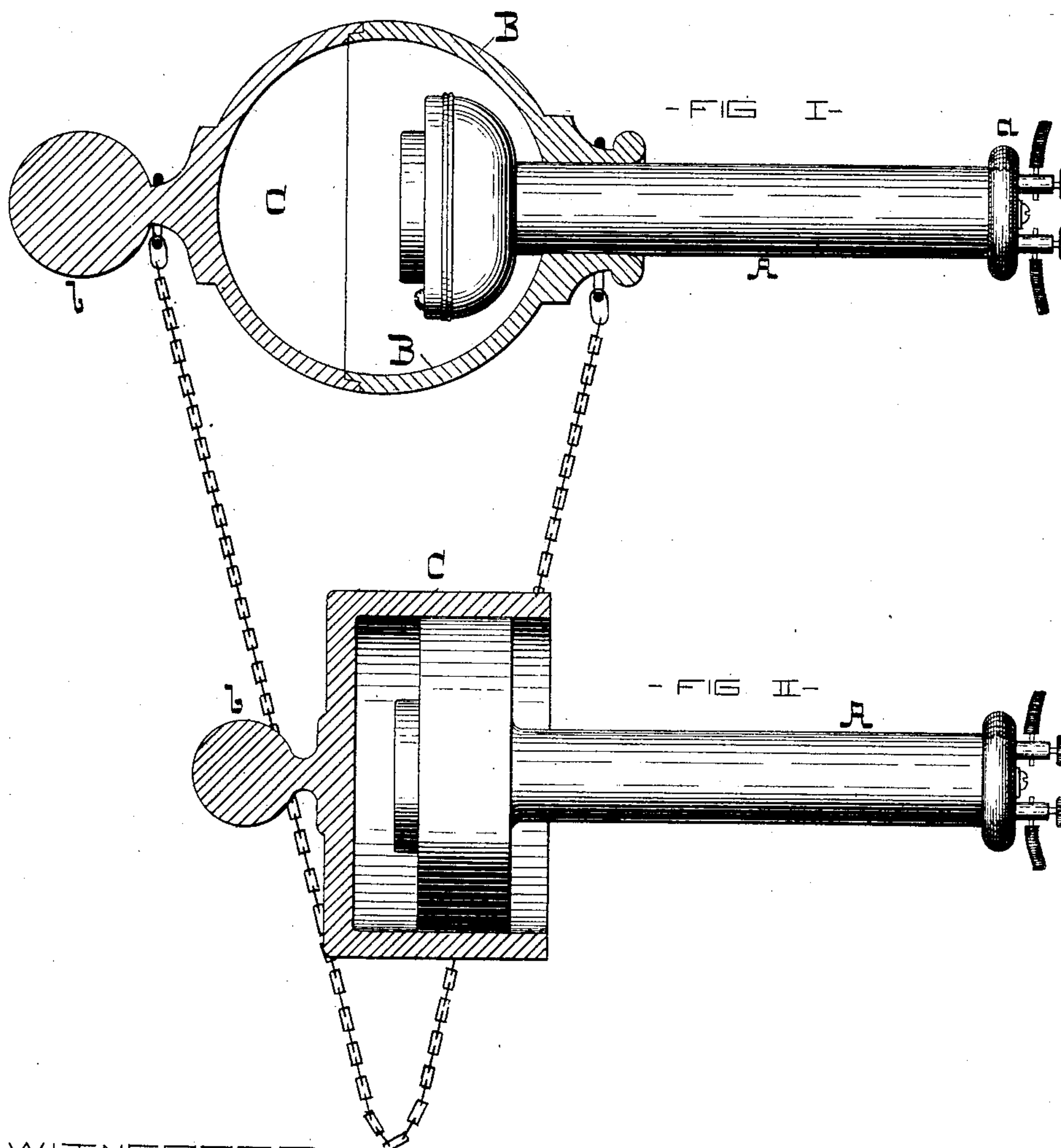


(No Model.)

W. R. MILLER.  
TELEPHONE.

No. 310,068.

Patented Dec. 30, 1884.



-WITNESSES-

*Dani Fisher*

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# UNITED STATES PATENT OFFICE.

WILLIAM R. MILLER, OF BALTIMORE, MARYLAND.

## TELEPHONE.

SPECIFICATION forming part of Letters Patent No. 310,068, dated December 30, 1884.

Application filed June 12, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM R. MILLER, of the city of Baltimore and State of Maryland, have invented certain Improvements in  
5 Telephones, of which the following is a specification.

In an application for Letters Patent for certain improvements in telephones allowed on the 10th day of June, 1884, I have shown and  
10 described the receiving-instrument of a telephone having a sound-insulating cup adapted to slide on the body of the instrument, and to be projected to a variable distance beyond the end of the receiver, to cover the ear of the  
15 person using the same. In the said application there is nothing described or shown to prevent the entrance of dust to the said cup, and it is therefore liable to become soiled and unfit to apply over the ear. Further, there is  
20 nothing shown or described adapted for application over the other ear, and consequently the advantages sought to be accomplished in the said invention are only partially obtained.

The object of the present invention is to obviate the objections above set out; and to this  
25 end the invention consists, principally, in combining with the cup shown in the said application a cover to exclude dust from the cup, and which cover is adapted, when removed  
30 from the cup, as a sound-insulator adapted for application to the other ear.

The invention further consists in certain details of construction of the receiving-instrument, as will hereinafter fully appear.

35 In the further description of the said invention which follows, reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure I is a partly-sectional view of a telephone receiving-instrument to which my invention is applied, and Fig. II a similar view illustrating a modification in the invention as  
40 hereinafter specified.

In the drawings, Fig. I, A is the receiving-instrument of the telephone. B is the sound-

insulating cup, which is adapted to slide on the body of the receiver, and to be projected beyond the end thereof, which is applied to the ear of the person receiving the message from the transmitter. After the telephone is  
50 applied to the ear the cup is drawn over it to prevent the entrance to the ear of extraneous sounds.

To admit of the application of the cup B to the body of the receiver, the bead *a* is made  
55 removable, it being preferably screwed on the body, as shown.

C is a second cup, similar to the other one, B, adapted to fit over or within the one B, as shown. This second cup has a handle, *b*, and  
60 may be attached to the one B by a cord or chain, as shown. When the telephone is to be used, the cup C is removed from the one B, and the telephone applied to one ear and the detached cup placed over the other. After  
65 the message is received the cups B and C are united, to keep them and the telephone free from dust, and in this condition the instrument may be hung up.

In Fig. II the cover-cup is placed over the end of the telephone, which is enlarged to the  
70 proper size. In this case the cup B is not employed; but the office of the cup C is the same as that of the one shown in Fig. I.

I claim as my invention—

1. In combination with the receiving-instrument of a telephone, a removable cup applied to the end thereof, substantially as and for the purpose specified.

2. In combination with the receiving-instrument of a telephone, a sound-insulating cup adapted to slide thereon and to be projected to a variable distance beyond the end of the receiver, and a second cup adapted to be removably connected to the first, substantially  
85 as and for the purpose specified.

WM. R. MILLER.

Witnesses:

JOHN WILLIAMS,

WM. T. HOWARD.