

L. L. LUNDGREN.
 TELEPHONE APPARATUS.
 APPLICATION FILED MAY 3, 1915.

1,249,962.

Patented Dec. 11, 1917.

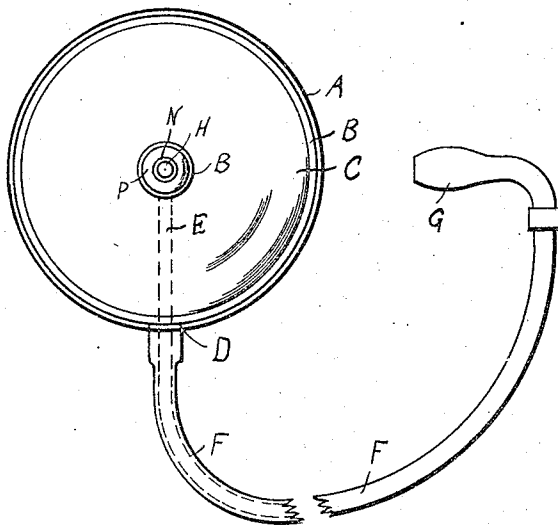


FIGURE 1.

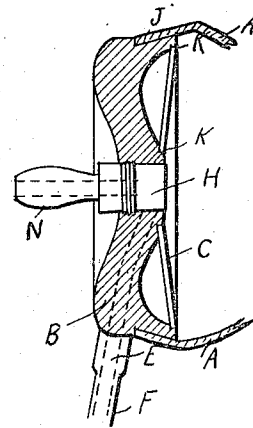


FIGURE 2.

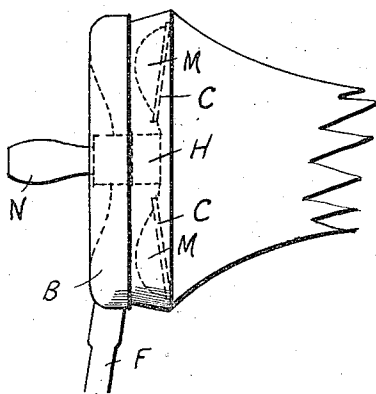


FIGURE 3.

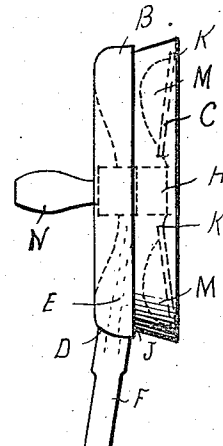


FIGURE 4. Inventor
 L. L. Lundgren

Witnesses. *Mrs. C. A. Harpman*
G. W. Smith

By

C. A. Harpman his Attorney

UNITED STATES PATENT OFFICE.

LUDWIG L. LUNDGREN, OF YOUNGSTOWN, OHIO, ASSIGNOR, BY MESNE ASSIGNMENTS,
OF ONE-HALF TO P. E. GORDON AND ONE-HALF TO M. D. PAULIN.

TELEPHONE APPARATUS.

1,249,962.

Specification of Letters Patent.

Patented Dec. 11, 1917.

Application filed May 3, 1915. Serial No. 25,654.

To all whom it may concern:

Be it known that I, LUDWIG L. LUNDGREN, a resident of Youngstown, in the county of Mahoning and State of Ohio, have invented a certain new and useful Improvement in Telephone Apparatus, of which the following is a specification.

This invention relates to certain improvements in telephone receivers, and has for its object, in part, to provide a device of this general character of a simple and comparatively inexpensive nature, having a novel arrangement of sound conveying means whereby the transmission of the reproduced sounds coming to the ear is facilitated in such a manner as to permit the same to be heard with greater distinctness under ordinary conditions.

The invention consists in certain novel features of construction and combinations and arrangements of the several parts of the improved telephone receiver.

In order that my improvements may be the better understood, I have illustrated the same in the accompanying drawings wherein—

Figure 1 is a front elevation of the device.

Fig. 2 is a front elevation of the device showing advertising space.

Fig. 3 is a side view in detail of the device.

Fig. 4 is a detail view of the device.

Fig. 5 is a sectional view of the device.

Fig. 6 is a side view of the device.

Fig. 7 is a view showing the entire apparatus in position for use.

By referring to the drawings it will be seen that the apparatus consists of a covering for the end of a common telephone receiver and is held in position by an elastic band A which fits snugly over the end of the receiver. B is a disk of wood or any suitable material with a hole H in the center to transmit the sound from the telephone receiver.

C is a soft rubber plate acting as a packing between the apparatus and the telephone receiver. The plate is forced into the groove to a greater or less extent depending upon

the shape of the receiver to which the device is applied. D is a hole formed in the disk B. See Fig. 5. Into the hole D is inserted a tube E. Upon the outer end of this tube E is a rubber tube F and at the other end of this tube F there is attached an ear piece G which may be removed and cleaned as desired. I is a disk used for advertising purposes which is fastened within the disk-shaped portion of plate B. J is a groove in the outer circumference of the disk B and is used to hold the elastic band A in position. See Fig. 5 and Fig. 6. K is groove formed within the outer edge of the disk B and is used to hold the rubber plate C in place. M is a circular, concave groove formed in the back side of the disk B so as to make the apparatus adjustable to any make of telephone receivers. This adjustment is made possible by reason of the rubber plate being elastic and thereby admitting of being forced into the circular concave groove above mentioned. N is the ear piece fastened within the hole H. See Fig. 3. P is the portion of the ear piece N which is inserted within the hole H of the disk B. See Fig. 5.

Having thus described my invention I claim as new and desire to secure by Letters Patent:

In a telephone receiver an apparatus consisting of an elastic band to be fitted snugly over the end of a common telephone receiver, this band carrying a disk, a central ear-piece fastened to the disk, a hole extending from the central portion of the disk to its circumference, a tube inserted within said hole and at the end of this tube an ear-piece, a circular concave groove formed in the side of the disk remote from the ear-piece, a rubber plate attached within the circular concave groove.

In witness whereof I hereunto subscribe my name this 24th day of April, A. D. 1915.

LUDWIG L. LUNDGREN.

Witnesses:

CLINTON J. WALL,
AXEL ANDERSON.