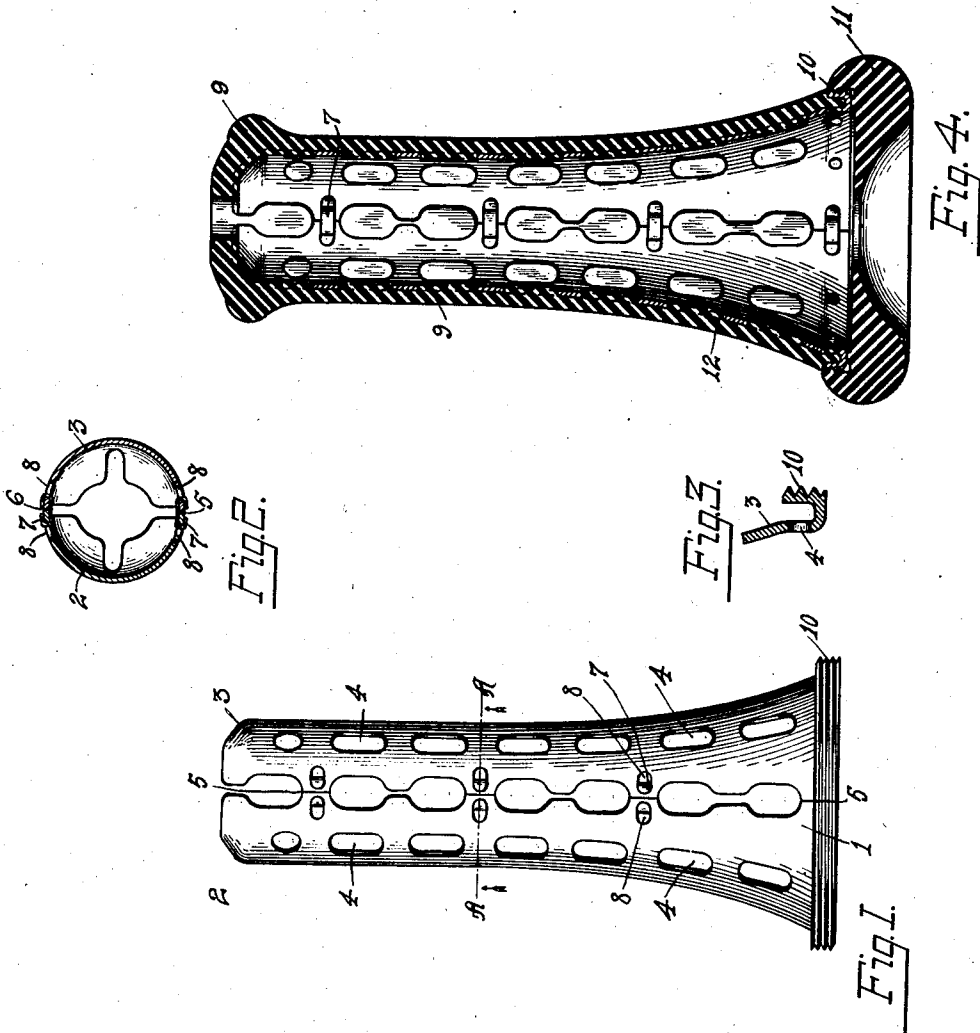


J. B. EDWARDS.
RECEIVER SHELL.
APPLICATION FILED FEB. 10, 1912.

1,115,520.

Patented Nov. 3, 1914.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH B. EDWARDS, OF CHICAGO, ILLINOIS, ASSIGNOR TO KELLOGG SWITCHBOARD AND SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

RECEIVER-SHELL.

1,115,520.

Specification of Letters Patent.

Patented Nov. 3, 1914.

Application filed February 10, 1912. Serial No. 676,907.

To all whom it may concern:

Be it known that I, JOSEPH B. EDWARDS, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Receiver-Shells, of which the following is a specification.

My invention relates to receiver shells in general, and particularly to the type generally used for telephone service in which a tubular casing and ear cap are provided for inclosing the electro-magnetic apparatus, an object being to provide an improved method of manufacturing the tubular casing portion of the type referred to.

It is very desirable that a receiver shell be light in weight and at the same time strong and durable to withstand the hard usage it is subject to in being handled. Furthermore, it is essential that the shell insulates the electro-magnetic apparatus carried thereby, therefore, various insulating compounds are used for this purpose, and on account of the high resistance and other advantageous features of rubber, compounds containing rubber are desirable, although usually fragile. Also in receivers of the type wherein the insulating material of the tubular shell portion is threaded to receive an ear cap, such threaded portion is easily injured and the threads stripped. Therefore, I provide a thin metallic tubular support having a flared end turned back and threaded, the support being then covered with an insulating compound, but leaving the threaded portion exposed to receive the ear cap of the receiver, thus providing a receiver shell which is durable, cheap to manufacture, light in weight and overcomes the objections above pointed out.

For a more complete understanding of my invention, reference is to be had to the accompanying drawing in which—

Figure 1 illustrates a metallic tubular shaped strengthening shell. Fig. 2 is a cross-section along the line A—A of Fig. 1, looking in the direction of the arrow indicated thereon; Fig. 3 is a cross-section through the turned back threaded portion of the metallic shell; and Fig. 4 illustrates the shell of Fig. 1 covered by an insulating compound.

The strengthening shell 1 comprises a plurality of longitudinal portions, preferably comprising two semi-circular shaped halves

2 and 3, formed up of a thin sheet metal and having a number of perforations 4. The two halves 2 and 3 each are preferably similarly shaped or formed to meet along the edges 5, 6, and secured together preferably by means of small clips 7 which are inserted into the openings 8 and then clenched as indicated in the drawings. In order to provide means for threading an ear cap to the handle or tubular portion 12 of the receiver shells, the flared end of the halves 2, 3, is formed back as indicated in Fig. 3, so that it may be threaded to receive the ear cap.

In Fig. 4 I have shown the metallic casing 1 with the insulating substance 9 molded thereon, but leaving the threaded portion 10 exposed. In molding the insulating material 9 around the tubular shell 1 the said material 9 is simply allowed to project slightly beyond the inner surface of the tube 1, as is indicated in Fig. 4, thus forming a homogeneous structure, although insulating material may be molded on both the inside and outside of the shell 1.

Although I have indicated the tubular shell of Fig. 1 as being threaded at the turned back portion 10, previous to molding the insulating material 9 thereon, this threading operation may also be performed after the material 9 has been molded onto the shell 1 so as to receive ear cap 11, as shown in Fig. 4, and although I have illustrated and described a specific form of my invention, I do not desire to be limited to the exact structure as illustrated and described, as it is apparent many changes and modifications thereof may be made, and I aim to cover all such changes and modifications as come within the spirit and scope of the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. A telephone receiver shell consisting of a thin strip or strips of sheet metal containing perforations, suitable perforations arranged along the longitudinal edges of said strips of metal adapted to receive a clamping or binding element, a plurality of small brads or strips projecting through said last mentioned perforations, the free ends of said strips being clenched to lock the adjoining edges of said strips of metal firmly into cylindrical form, and a coating of hard rubber or insulating compound disposed upon the exterior of the cylindrical shell

thus formed, the first mentioned perforations in said metal assisting to secure said insulating compound securely in position thereon.

- 5 2. A telephone receiver shell consisting of a thin strip or strips of sheet metal containing perforations, suitable perforations arranged along the longitudinal edges of said strips of metal adapted to receive a
10 clamping or binding element, a plurality of small brads or strips projecting through said last mentioned perforations, the free ends of said strips being clenched to lock the adjoining edges of said strips of metal firmly
15 into cylindrical form, and a coating of hard rubber or insulating compound disposed upon the exterior of the cylindrical shell thus formed, the flared end of said receiver

shell being turned back and threaded to receive a suitable ear cap, said turned back portion being disposed with reference to the body of the shell so as to leave a small annular cavity between said turned back portion and the exterior wall of the shell, the first mentioned perforations in said metal
25 and said annular space between the turned back portion of said shell and the outer wall thereof assisting to secure said insulating compound securely in position thereon.

Signed by me at Chicago, county of Cook, 3
and State of Illinois, in the presence of two witnesses.

JOSEPH B. EDWARDS.

Witnesses:

GEORGE E. MUELLER,
CARRIE E. ANDERSON.