

Oct. 14, 1924.

R. G. McKEE

1,511,229

TRANSFORMER CORE FOR RADIO WORK

Filed Nov. 4, 1921

Fig. 2.

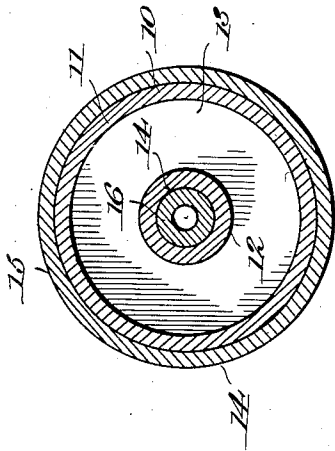


Fig. 1.

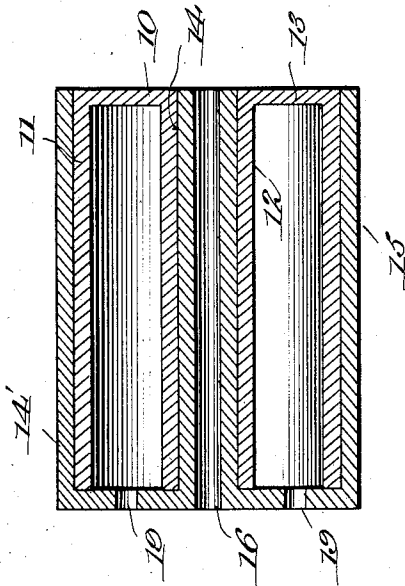
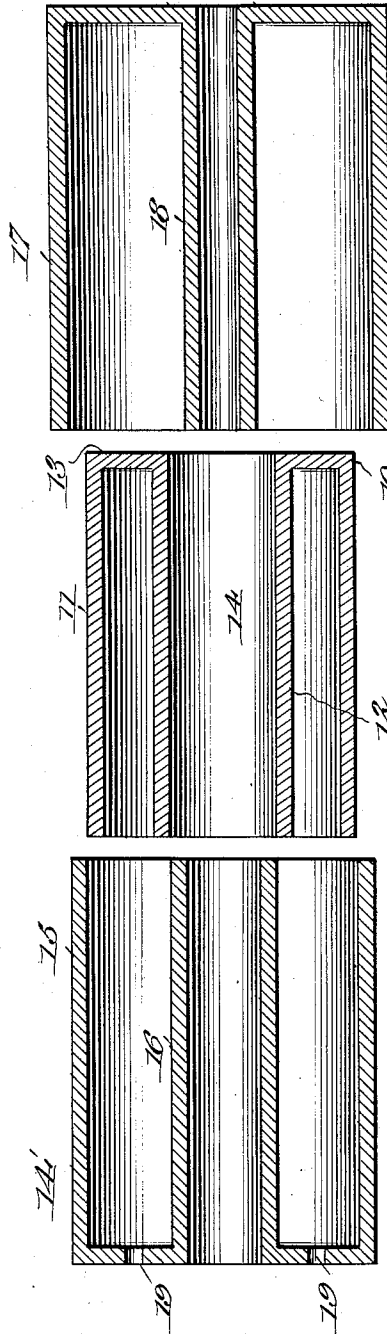


Fig. 3.



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Patented Oct. 14, 1924.

1,511,229

UNITED STATES PATENT OFFICE.

RAYMOND G. McKEE, OF DELHI, NEW YORK.

TRANSFORMER CORE FOR RADIO WORK.

Application filed November 4, 1921. Serial No. 512,895.

To all whom it may concern:

Be it known that I, RAYMOND G. McKEE, a citizen of the United States, residing at Delhi, in the county of Delaware and State of New York, have invented new and useful Improvements in Transformer Cores for Radio Work, of which the following is a specification.

This invention relates to transformer cores for radio work, and the principal object is to produce a device of this nature which shall be a completely closed core device.

Another object is to produce a device of this nature in which a shell surface of metal may be exposed at the laps of the laminations whereby a more perfect path may be provided for the magnetism.

Another object is to produce a device whereby the howling usually heard in the receiving circuit when using an ordinary amplifying transformer may be eliminated.

Another object is to produce a device of this nature which shall be simple of construction, cheap to manufacture and highly efficient for the purpose for which it is designed.

With these and other objects in view, which will be more apparent as the specification proceeds, the invention resides in certain novel construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

Figure 1 is a longitudinal sectional view of my improved transformer core.

Figure 2 is a transverse sectional view of the same.

Figure 3 is a view similar to Figure 1 but showing three laminations in detached relation.

Like characters of reference refer to like parts in all views.

Referring to the drawing in detail, 10 represents the inner shell which is formed with two concentric cylindrical flanges 11 and 12 joined at one end by a connecting portion 13 and provided with a central aperture 14. Between the members 11 and 12 the windings (not shown) which are of the usual construction are placed.

The secondary shell is shown at 14 and comprises an outer cylindrical flange 15 of a size to fit over the flange 11, and an inner

flange 16 of a size to nest snugly inside of flange 12.

In Figure 3 there is shown a third shell of laminations comprising an outer cylindrical member 17 to fit over flange 15 and an inner cylindrical member 18 to fit in the member 16.

This process can be repeated until there is the required amount of lamination in the core. The end of member 14 is provided with a plurality of apertures 19 to permit the passage of an insulating binding post to connect the primary and secondary winding to. To secure the transformer to the panel, a screw of sufficient length should be passed through the central aperture in the transformer and secured in place to the panel.

While I have described what I deem to be the most desirable embodiment of my invention, it is obvious that many of the details may be varied without in any way departing from the spirit of my invention, and I therefore do not limit myself to the exact details of construction herein set forth nor to anything less than the whole of my invention limited only by the appended claims.

What is claimed as new is:—

1. A transformer of the type described comprising a plurality of shells, each formed with a plurality of concentric cylindrical flanges, the outer flange of one of said elements fitting outside the outer element of the other, and the inner cylindrical element of the first shell fitted inside the inner cylindrical element of the other as and for the purpose set forth.

2. A transformer core comprising a plurality of removable shells, each shell being open at one end and closed at its other end and having a concentric cylindrical member, each shell constituting a single lamination and adapted to telescope one within the other.

3. A transformer core comprising a plurality of shells, each shell constituting a single lamination and having an open end and a closed end, a concentric cylindrical member extending from said closed end towards said open end, said shells adapted to telescope one over the other, the closed end of one shell serving to close the open end of the next adjacent shell.

In testimony whereof I hereby affix my signature.

RAYMOND G. McKEE.