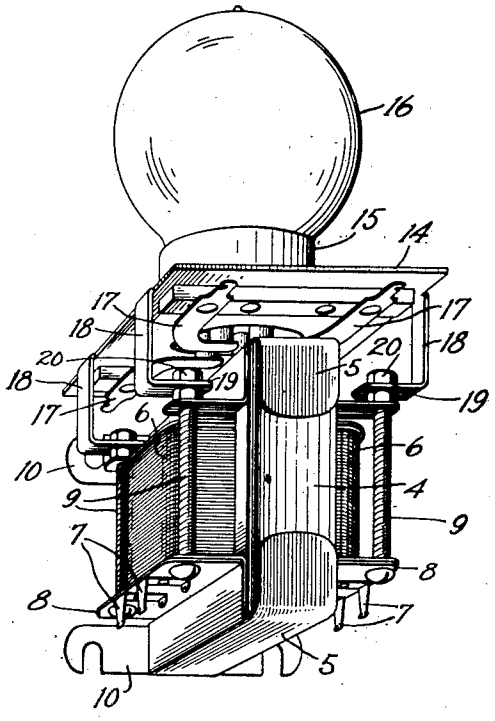
Oct. 27, 1925. 1,559,246

A. F. F. GILSON

SIGNALING APPARATUS

Filed July 31, 1923



Inventor:
Albert F.F. Gilson,
by Jed C.R. Palmer Atty

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UNITED STATES PATENT OFFICE.

ALBERT F. F. GILSON, OF ORADEL, NEW JERSEY, ASSIGNOR TO WESTERN ELECTRIC COMPANY, INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SIGNALING APPARATUS.

Application filed July 31, 1923. Serial No. 654,914.

To all whom it may concern:

Be it known that I, ALBERT F. F. GILSON, a citizen of the United States, residing at Oradel, in the county of Bergen, State of New Jersey, have invented certain new and useful Improvements in Signaling Apparatus, of which the following is a full, clear, concise, and exact description.

This invention relates to signaling apparatus and more particularly to amplifying apparatus for telephone currents and the like.

An object of the invention is the arrangement of amplifying apparatus in a manner to minimize the space occupied by the individual elements.

In accordance with this invention, a combined transformer and vacuum tube socket is provided, wherein the vacuum tube socket is secured to the transformer by the same means which clamps the transformer parts together.

In the single figure of the drawing, one embodiment of the invention is illustrated.

A better understanding of the invention may be had from the following description when considered in conjunction with the drawing.

Referring now to the drawing, there is shown a transformer having an E shaped laminated frame 4. This frame is made up of E shaped laminations and a laminated member for bridging the gaps in the E shaped member. The laminations composing these members may be riveted together in any suitable manner as shown, for example, in copending application, Serial No. 566,421, filed June 6, 1922. Wound on the middle leg of the E shaped frame is a winding 6, the ends of which are fastened to terminals 7 mounted on a terminal plate 8. Partially enclosing frame 4 are plates 5 having apertured lugs at their four corners through which and terminal plate 8 pass bolts 9 which securely clamp the transformer between plates 5.

Fastened also to the clamping bolts 9 is a vacuum tube socket having a base 14 and a tubular portion 15 adapted to receive a vacuum tube 16. Insulatingly secured to the base 14 and extending toward and lying in an aperture therein are a plurality of spring terminal members 17. Integrally secured to the base 14 are four depending portions 18 which have projecting portions 19. Through an aperture in each of the projecting portions 19 extend the clamping bolts 9 and by nuts 20 the vacuum tube socket is rigidly secured to the transformer, thereby forming the two elements in a unitary structure. By this arrangement, both the transformer and the vaccum tube socket may be mounted on a support by means of the flanges 10 which serve as a common fastening means for the two elements.

Although the invention has been disclosed and described as applied to a particular structure, it is, of course, obvious that various modifications may be made without departing from the spirit and scope of the present invention.

The invention claimed is:

1. In combination, a transformer, a pair of plates, means for clamping said transformer between said plates, a vacuum tube socket, means integral with said vacuum tube socket and secured to the clamping means of said transformer, and a common means for mounting said transformer and vacuum tube socket.

2. In combination, a transformer, a pair of plates, bolts engaging said plates for clamping said transformer between said plates, a vacuum tube socket having integral with its base depending portions secured to the upper ends of the clamping bolts, and a common means for mounting said transformer and vacuum tube socket, said means being formed by lugs projecting from said plates.

In witness whereof, I hereunto subscribe my name this 27 day of July A. D., 1923.

ALBERT F. F. GILSON.