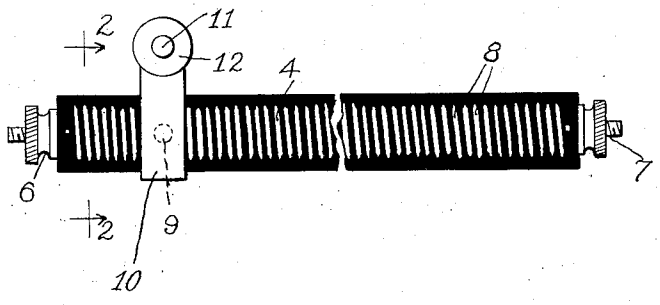
G. M. WILLIS.

RHEOSTAT.

APPLICATION FILED FEB. 24, 1911.

1,167,868. Patented Jan. 11, 1916.

Fig. 1.



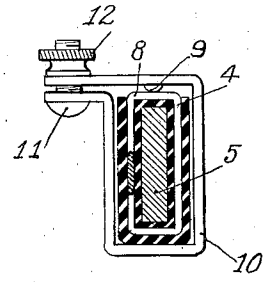
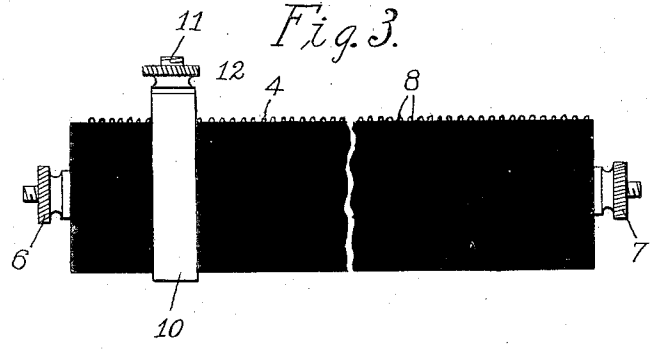


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE M. WILLIS, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO CHICAGO ELECTRIC METER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

RHEOSTAT.

1,167,868. Specification of Letters Patent. **Patented Jan. 11, 1916.**

Application filed February 24, 1911. Serial No. 610,572.

To all whom it may concern:

Be it known that I, GEORGE M. WILLIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and improved Rheostat, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to an improved form of rheostats and its object is to provide a simple and durable apparatus which can be economically manufactured.

The several drawings illustrating my invention are as follows: Figure 1 is a plan view of the rheostat of my invention. Fig. 2 is a cross sectional view taken through the line 2—2 of Fig. 1 and looking in the direction indicated by the arrows. Fig. 3 is a view in side elevation of the devices of my invention.

Similar reference characters refer to similar parts throughout the several views.

An insulated helical coil of wire is illustrated at 4 wound around a core 5 and terminating at each end in binding posts 6 and 7. As is clearly shown in Fig. 2, the wire 4 is preferably stripped of insulation as shown at 8, providing a contact surface for the stud 9 carried by the clip 10. The clip is provided with two horizontal projections through which a bolt 11 is passed, a nut 12 serving to clamp said projections together, securing the clip to the coil and also serving as a binding post. It will be readily seen that the clip can be adjusted longitudinally of the coil by merely releasing nut 12 and sliding the clip to the desired position, where the nut is again tightened to afford electrical engagement between the wire 4 and the engaging stud 9.

The clip 10 is so conformed with relation to the coil that it will engage the coil at two points directly opposite each other, thereby assuring a positive engagement between the stud and wire 4.

What I claim is.

1. A rheostat comprising in combination a supporting core of polygonal cross section, a coil wound around said core from end to end, insulation around said coil except on one side thereof, a clip conformed to have an aperture corresponding to the cross section of said core fitted over said core and coil and movable thereon, a contact carried by the clip held at all times adjacent to the uninsulated side of said coil, and means for tightening said clip at any desired position around said core and coil.

2. A rheostat comprising in combination a supporting core, a coil wound around said core from end to end, insulation covering said coil except on one side thereof, said core, coil and insulation constituting a structure having a polygonal cross section, a clip of correspondingly polygonal conformation arranged to fit over said structure, a contact element carried by said clip and always retained adjacent to the uninsulated side of said coil, and means for securing said clip at any one of a plurality of positions upon said structure to determine the position of said contact element along the uninsulated side of said coil.

In witness whereof, I hereunto subscribe my name this 10th day of February, A. D. 1911.

GEORGE M. WILLIS.

Witnesses:
ALBERT C. BELL,
W. W. SCHWEBS.