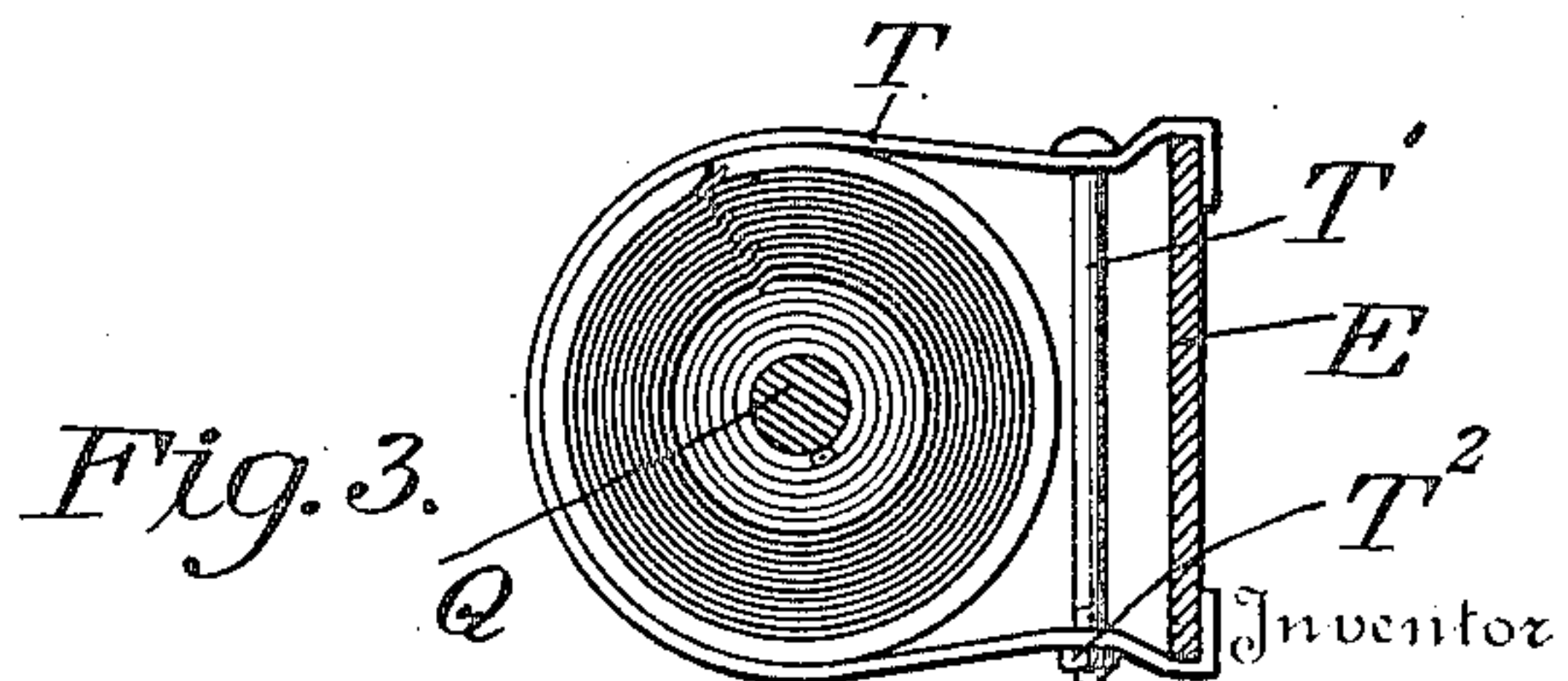
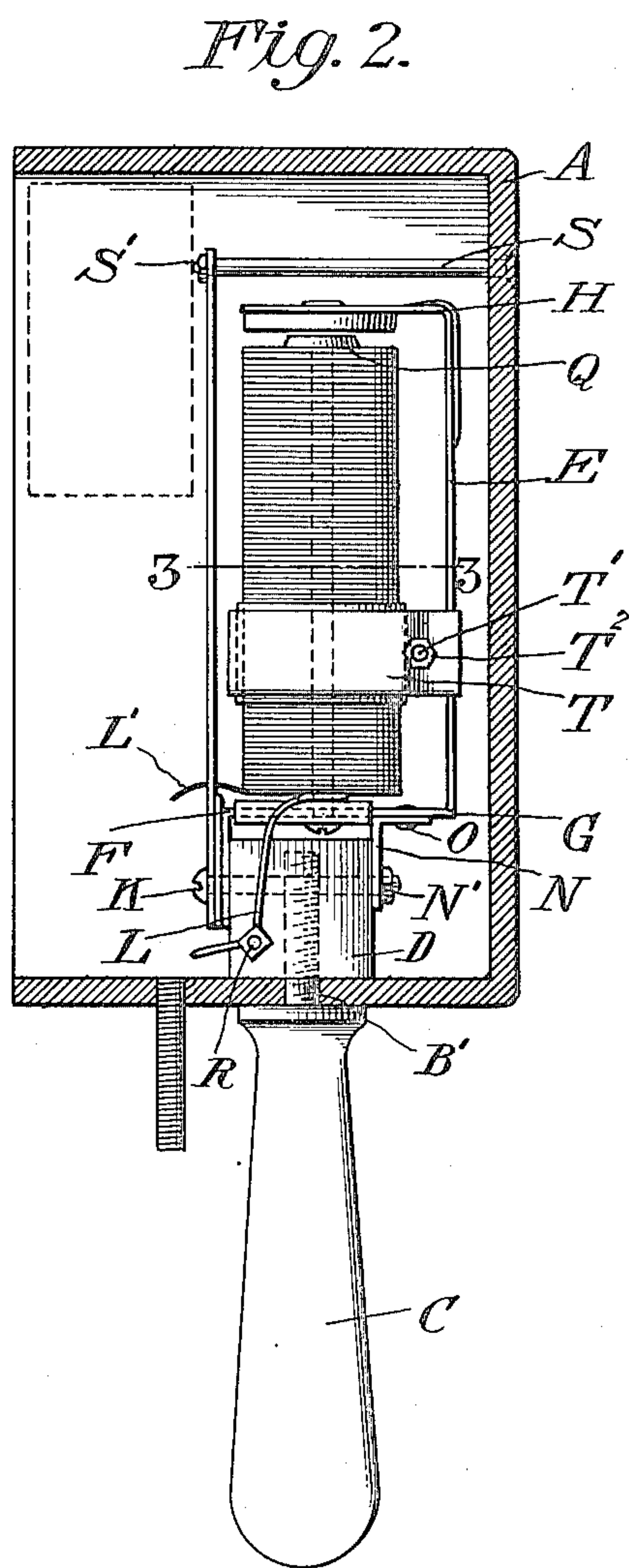
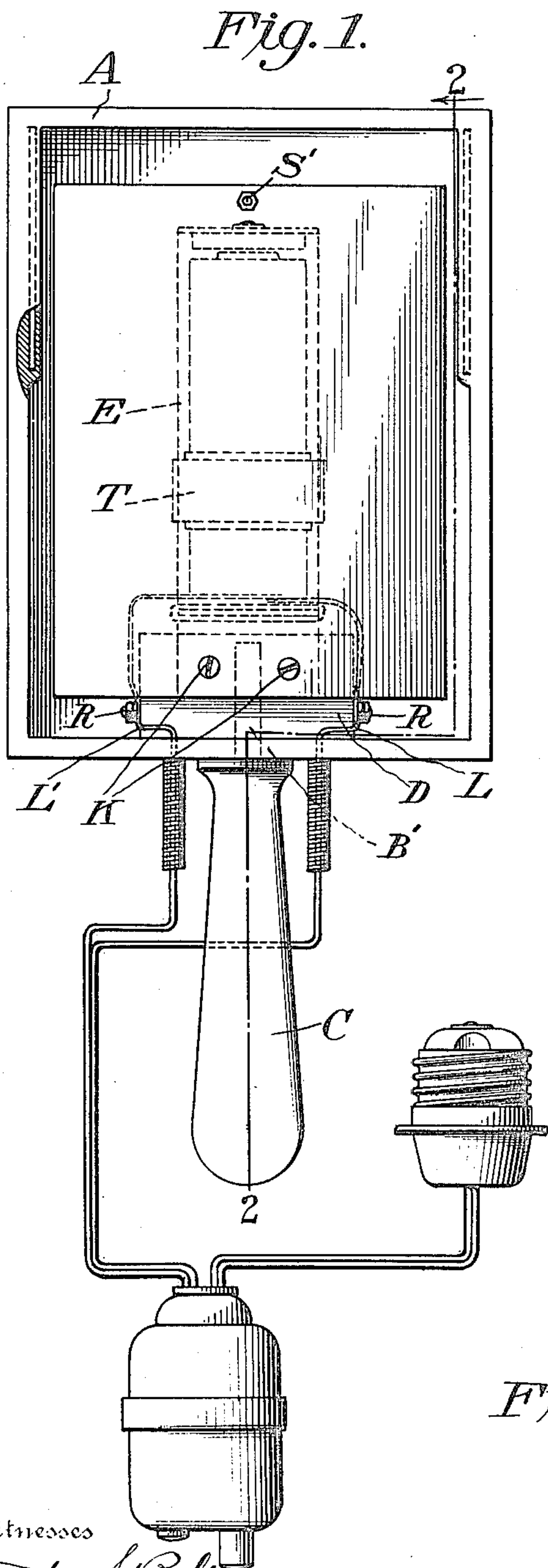


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VIBRATOR.
APPLICATION FILED MAY 18, 1915.

1,167,256.

Patented Jan. 4, 1916.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLOTTE BERGMAN, OF LOS ANGELES, CALIFORNIA.

VIBRATOR.

1,167,256.

Specification of Letters Patent.

Patented Jan. 4, 1916.

Application filed May 18, 1915. Serial No. 28,915.

To all whom it may concern:

Be it known that I, CHARLOTTE BERGMAN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Vibrators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in electro-magnetic vibrators, designed for use in treating the human body, tending to act upon the tissues of the system to revitalize the same.

My invention comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:

Figure 1 is a top plan view of the invention. Fig. 2 is a sectional view on line 2—2 of Fig. 1. Fig. 3 is a sectional view on line 3—3 of Fig. 2.

Reference now being had to the details of the drawings by letter, A designates a receptacle with an open face and made either of a fireproof material or covered with asbestos. One end of the casing is provided with an aperture through which a screw B' passes which is fixed to a handle C, and D is a block of insulating material which is provided with a threaded hole for the reception of a set screw, and E is an armature bent at angles at points designated by letters F, G and H, and one end of the armature is provided with apertures for the reception of the screws K which pass through the same and through said block of insulation and also through apertures in an angle plate N, apertured for the reception of bolts K, suitable nuts N' being fitted to the screws to hold the parts together. Said angle iron is fastened by means of a rivet O to the vibrator and secured to the stationary part of the armature is a single core Q having a resistance wire winding, which is connected to the terminals R, supported by said block and

to which the electric supply wires L and L' are connected. A suitable insulation is interposed between the end of the core which is fastened to the shank portion of the armature, and T designates an adjustable clamping member passing over the coil, suitable insulation being interposed between the same and the latter and the ends of said clamping member are angled and engage over the opposite ends of the armature, while a screw T' is passed through registering apertures in the arms of the clamping member, and a nut T² upon the end serves to hold the member in clamping relation with the coil, and holding the angled ends of the member frictionally against the opposite edges of the armature, thus holding the same rigidly at the point of contact therewith, leaving the free end of the armature of sufficient resiliency to cause vibration. Said plate, which covers the armature and core, is supported by means of a post S within the casing and the plate is held to the post by means of a screw S'.

In operation, when an alternating current is turned on, a vibratory movement will be given to the armature and also heat owing to the resistance of the wire forming the winding of the core by holding the open part of the casing adjacent to the part treated, a beneficial result will be obtained by the heat and magnetism as well as by the vibratory movement and which tends to act upon the tissues of the body.

What I claim to be new is:—

1. An electro-magnetic vibrator comprising a receptacle with an open face, an armature secured to the casing, an adjustable clamping member engaging the coil and having angled ends for engagement with a portion of the armature, and means for holding the clamping member in an adjusted position.

2. An electro-magnetic vibrator comprising a receptacle with an open face, an insulation block within the casing and a handle passing through the wall of the latter and engaging said block, an armature having a shank portion, an angle plate, screws passing through the shank portion of the armature and said plate, means for fastening the plate to the block, a coil supported within the receptacle, a clamping member frictionally engaging the coil and having angled ends for engaging with the opposite edges of the armature.

3. An electro-magnetic vibrator comprising a receptacle with an open face, an insulation block within the casing and a handle passing through the wall of the latter and
5 engaging said block, an armature having a shank portion, an angle plate, screws passing through the shank portion of the armature and said plate, means for fastening the plate to the block, a coil supported within the re-
10 ceptacle, a clamping member frictionally engaging the coil and having angled ends for

engagement with the opposite edges of the armature, a plate secured to said block, and a post within the casing and fastened to the plate and to said receptacle.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLOTTE BERGMAN.

Witnesses:

Dr. PETER OLSON,
ALICE R. DORSCH.