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H. W. EDEN.

FRAME FOR ELECTRIC BELLS.

APPLICATION FILED FEB. 5, 1906.

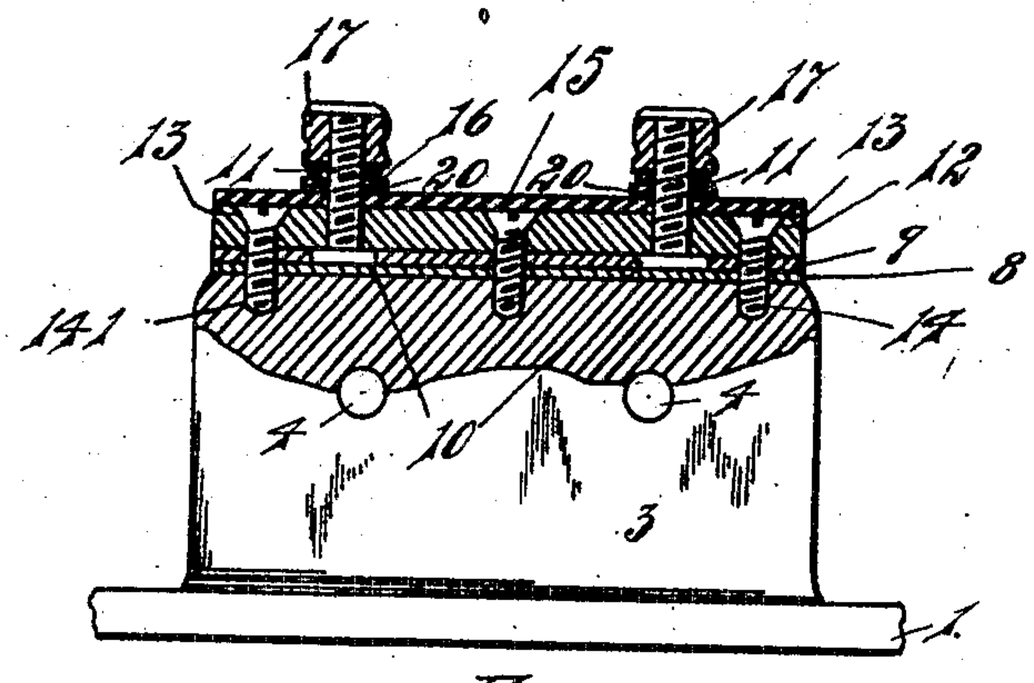

Fig. 2.

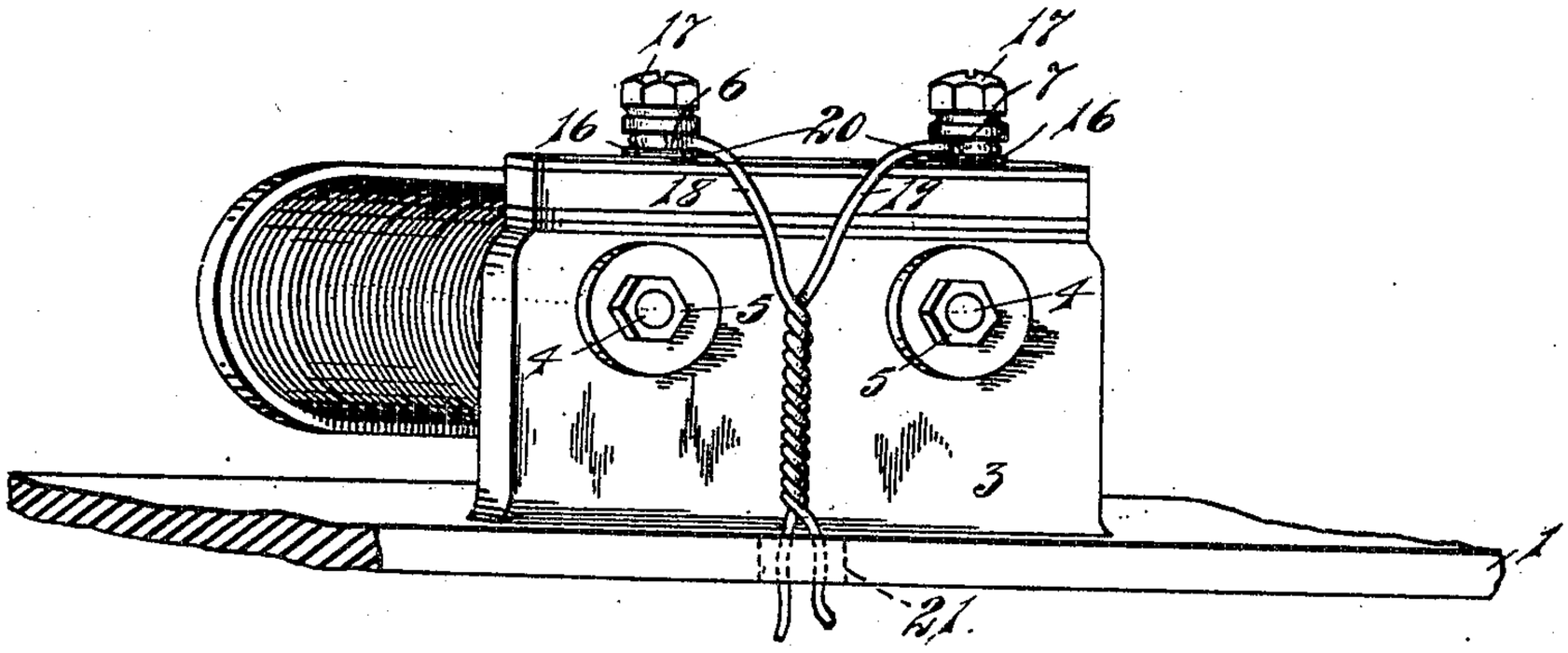

Fig. 1.

WITNESSES

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FRAME FOR ELECTRIC BELLS.

No. 837,671. Specification of Letters Patent. Patented Dec. 4, 1906.

Application filed February 5, 1906. Serial No. 299,518.

To all whom it may concern:

Be it known that I, HAROLD W. EDEN, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Frames for Electric Bells; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to frames for electric bells.

It has for its object an improved bracket adapted to support the solenoids which form the magnetic coils of an electric bell.

In the drawings, Figure 1 is a perspective showing the base and the bracket which form the subject of this invention. Fig. 2 is an elevation of the bracket, partly in section.

1 indicates the base-plates, from which rises the post 3, which supports the solenoid-coils, the cores of which are seen at 4 and are secured to the posts by means of the nuts 5. Binding-posts 6 and 7 are set into the top of the post 3 in a way to be entirely insulated from all parts of the post itself and from the base 1, and this insulation is effected by the means shown in Fig. 2. The top of the post 3 is planed off and drilled with holes 141 and threaded for screws 14, after which an insulating-plate 8, having holes that register with the holes 141 in the post, is placed on the planed surface. A second insulating-plate 9, also provided with holes that register with the holes 141 in the post, is placed above the first. The second plate 9 is provided with prismatic holes 10, in which are set the heads of screws 11, the threaded part of which is directed upward from the post 3. Above the insulating-plate 9 is a third insulating-plate 12, provided with holes 13, that register with the screw-holes in the post 3 and with holes that are in axial alinement with the prismatic holes 10 in the plate 9. These holes 13 are for the screws 11. The holes 13 in the insulating-plate 12, which register with the holes 141 in the post 3, are countersunk, and insulating-plates 8, 9, and 12 are all secured by the screws 14 to the post 3. A fourth insulating-plate 15 covers the heads of the screws 14, and this is pierced with holes for the passage of screws 11. A thin nut 16 holds the insulating-plate 15 in place, and above this on each screw is a binding-nut 17. Thin plates 20 of conducting material are in electrical connection with the screws 11. These extend toward the spools of the coil, and the wires of the coil are electrically secured to them. The construction thus produced, the binding-nuts 17 coact with nuts 16 to hold the conducting-wires 18 and 19, which are led directly to the binding-nuts without being attached to the frame at any place, except that they run through a guide-hole 21 in the base, and the post itself and the base are not employed as a part of the electric conductor, nor are they liable to accidentally become involved in the electric circuit. All of the wiring is in plain sight and extremely simple.

What I claim is—

1. In a support for the magnet of an electric signal, the combination of a post adapted to support the coils, a plurality of layers of insulating material thereon, means extending thereinto whereby the same are attached to the post, binding-posts extending with their stems through a portion of said layers, being out of contact with said attaching means, and connecting means between said binding-posts and the magnet extending over the outer surface of the insulating material, substantially as described.

2. In combination with the magnetic coils of an electric signal, a post whereon the same are mounted, a plurality of laminations of insulating material thereon, means extending through a portion of the layers for attaching the same to said post, binding-posts extending with their stems through a plurality of layers of said insulating material at other points than the location of said attaching means, and connecting means between said binding-posts and said coils extending along the upper surface of said insulating material, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HAROLD W. EDEN.

Witnesses:
MAY E. KOTT,
CHARLES F. BURTON.