

No. 893,314.

PATENTED JULY 14, 1908.

H. W. EDEN.
MAGNET ACTUATED SIGNAL BELL.

APPLICATION FILED JULY 18, 1908.

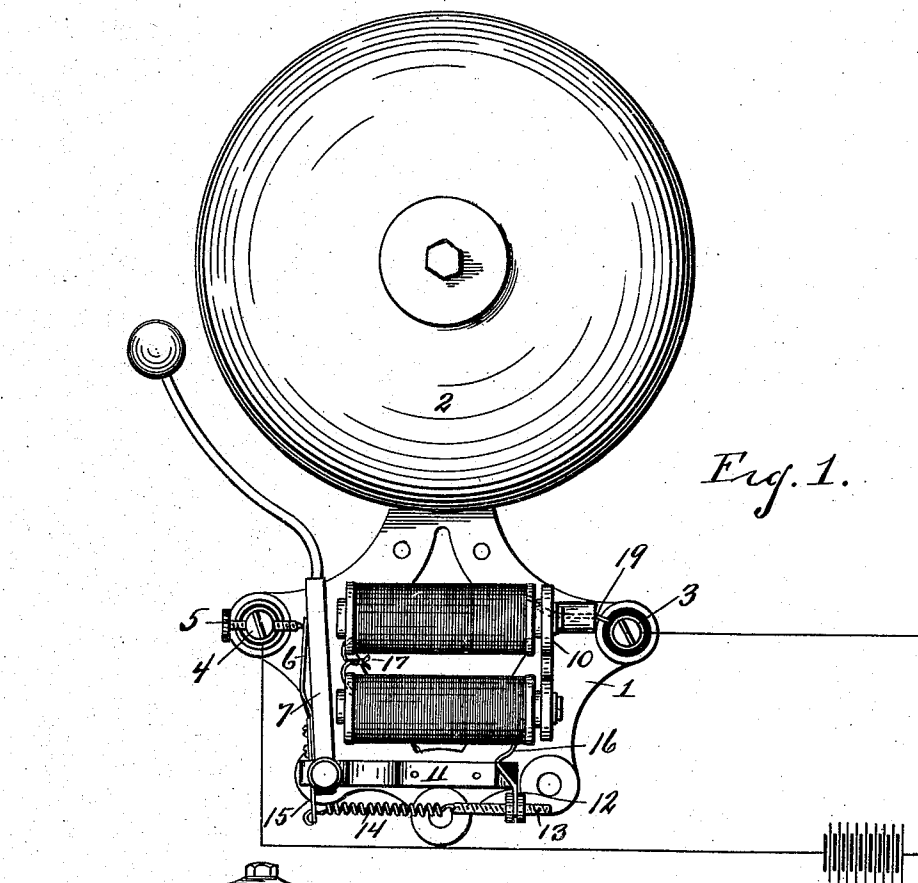


Fig. 1.

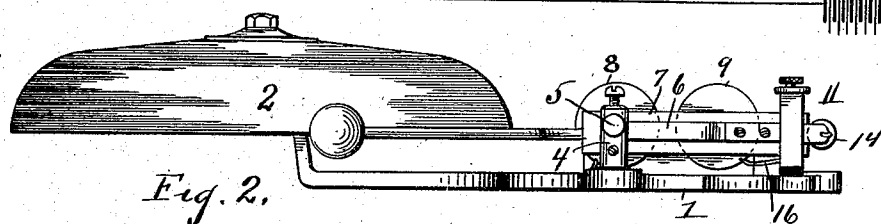


Fig. 2.

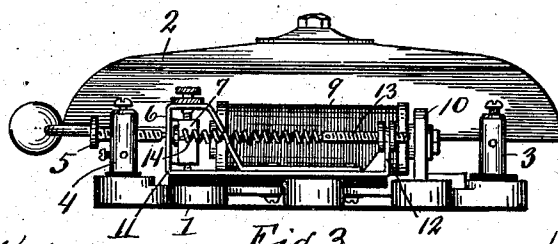


Fig. 3.

WITNESSES

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HAROLD W. EDEN, OF DETROIT, MICHIGAN, ASSIGNOR TO P. R. MANUFACTURING COMPANY,
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MAGNET-ACTUATED SIGNAL-BELL.

No. 893,314.

Specification of Letters Patent.

Patented July 14, 1908.

Application filed July 18, 1906. Serial No. 326,647.

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 Magnet-Actuated Signal-Bells, and declare the following to be a full, clear, and exact description of the same, 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 magnet actuated signal bells, and has for its object an improved construction of such bell.

In the drawings:—Figure 1, is a plan view. Fig. 2, is a side elevation. Fig. 3, is an end elevation.

1 indicates a base, preferably made of some cast metal, this base supports the bell 2, and is itself provided with holes for the passage of screws, by means of which it may be secured in its place of use; at one side is a binding post 3, insulated from the base, but held thereto by a screw which passes through an insulating washer into the post; opposite this is a binding post 4, also insulated from, but held to the base; the latter post also carries a contact screw 5, which engages against the resilient tongue 6 of the vibrator. The tongue 6 is secured to an armature 7, pivotally supported in front of the spools 8 and 9, of the magnet. The spools 8 and 9 are secured to a bracket 10, projecting from the cast metal base. The armature is held in a trunnion bearing attachment 11 insulated from, but secured to the base 1; this trunnion bearing attachment carries an arm 12, through which engages an adjusting screw 13, for the retractile spring 14, that retracts the armature after it has been actuated by the magnet. The spring 14 engages a projection 15 that extends to the rear of the trunnions and is secured to the

armature. The tongue upon the armature forms a part of the circuit, the trunnion bearing attachment 11 forms a part of the circuit; the circuit is completed from the trunnion bearing attachment to the spool by a short wire 16, passes across from spool 9 to spool 8, through the connection 17; from spool 8 it passes to the binding post 3, through a short projected wire 19.

The construction forms one that is very easily assembled because the spool may be secured in place to the base, the armatures secured in the bearing, and the armature and bearing together placed upon the base and secured thereto.

What I claim is:—

A magnet actuated signal bell, having in combination with a base having a plurality of projections whereon other parts may be mounted, a sounding member carried by said base, a pair of coils supported by one of said projections, an armature support mounted on said base, the coils and support being insulated therefrom, a plurality of binding posts insulated from the base, an adjustable contact screw supported by one of said binding posts, an armature pivotally carried by its supporting member in position to oscillate between the ends of the spools and said contact post, a tension spring adapted to yieldingly oppose the attraction of the armature toward the spools, said spring being adjustably anchored to the opposite end of said armature support from that wherein said armature is pivoted and fixed conductor wires leading therefrom to the spools and from the spools to the second binding post, substantially as described.

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

HAROLD W. EDEN.

Witnesses:

LOTTA LEE HAYTON,
CHARLES F. BURTON.