H. W. EDEN.

SIGNAL BELL.

APPLICATION FILED DEC. 7, 1908.

934,396. Patented Sept. 14, 1909.

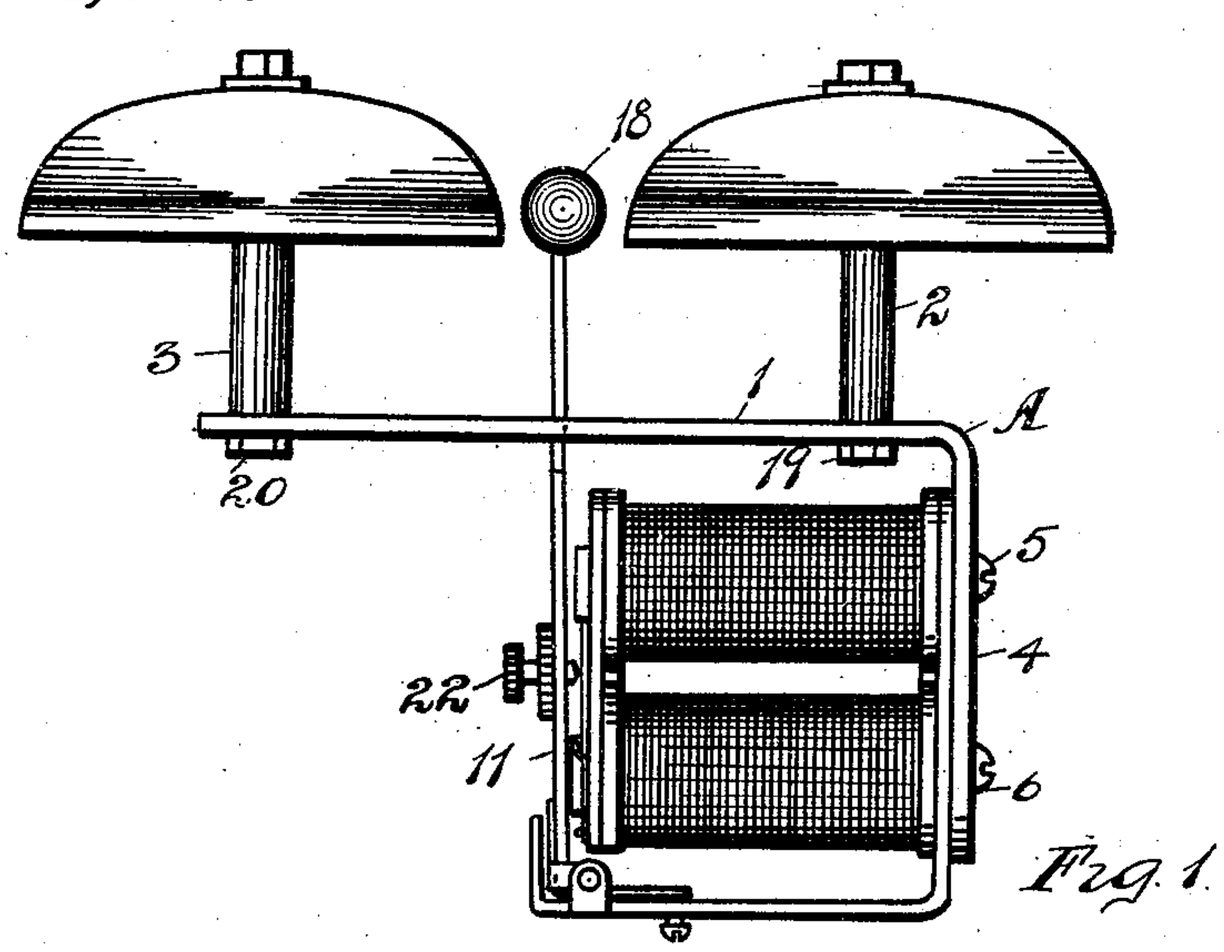

Fig. 1.

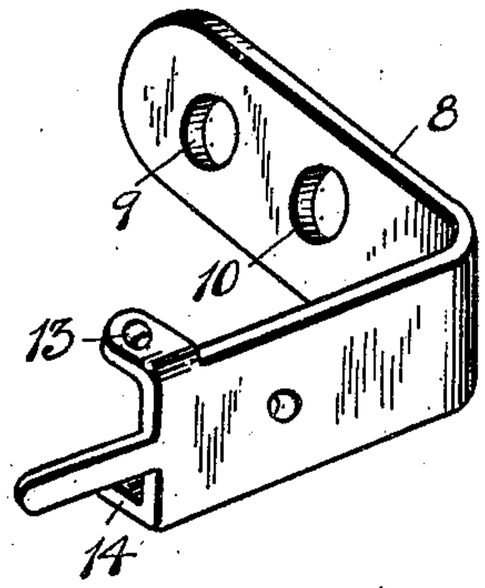

Fig. 3

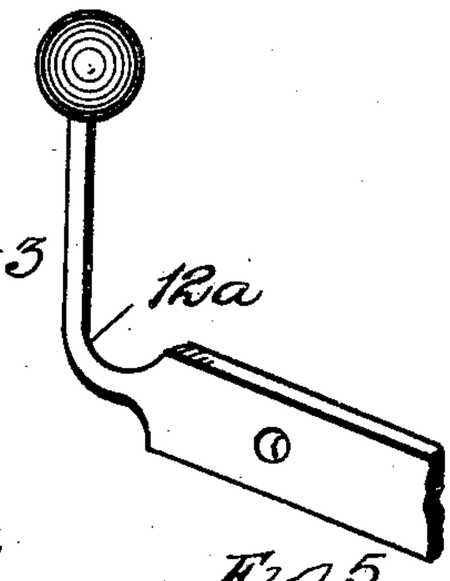

Fig. 5.

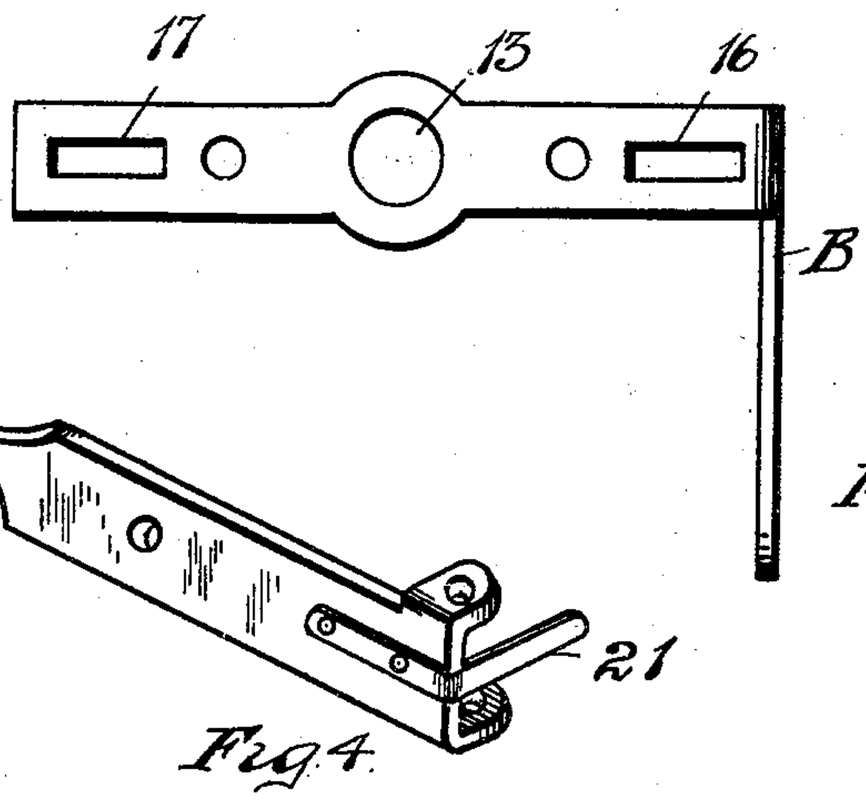

Fig. 4.

Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

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SIGNAL-BELL.

934,396. Specification of Letters Patent. **Patented Sept. 14, 1909.**

Application filed December 7, 1908. Serial No. 466,200.

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 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 signal bells, and it has for its object an improved construction of the spool members and the frame to which the spool members are attached, by means of which the spool may be used interchangeably with either of two varieties of bell brackets, and is thereby adapted to be used in locations where there is little room for the place of the structure, and in which it may be desirable to use at one time one character of bell bracket and at another time another character of bell bracket to suit the requirements of the space to be occupied by the bell.

In the drawings:—Figure 1, shows the spool frame attached to a bracket in which the bells are placed with their stems at right angles to the axis of the armature of the spools. Fig. 2, shows a bracket adapted to be used with the same spool frame and in which the bells have their stems parallel to the axis of the armature. Fig. 3, shows the main portion of the subordinate frame, or spool frame. Fig. 4, shows the bell hammer, used with the bracket of Fig. 1. Fig. 5, shows the bell hammer used with the bracket shown in Fig. 2.

The bracket consists of a strip of metal 1 bent at right angles with the branch 4, and one provided with means for holding the stems of the bells 2, 3, and the branch 4, provided with holes for receiving the screws 5, 6, which secure the subordinate frame to it. The spools are secured to the subordinate frame piece 8, by inserting the core of the spools through the holes 9, 10 and riveting the cores down against the frame member. The ends of the cores are bored and threaded to receive screws 5, 6, which pass through the branch 4, of the main bracket. The armature 11 is pivotally connected to lugs 13, 14, on the subordinate frame 8, and the striker arm 12 extends through a hole 13, in the bracket member. The bracket member is provided with rectangular slots 16, 17, in which the ends of the post 2, 3, are set and along which the post may be adjusted to regulate the distance of the bells from one another and from the hammer 18. The ends of the shanks of bells 2 and 3 are threaded and the bell stems are secured in place by nuts 19, 20.

The bracket bent as shown in Fig. 2, is used with a bent striker arm 12^a, as shown in Fig. 5, and the bracket bent as shown in Fig. 1, is used with a straight striker arm as shown in Fig. 4.

Resiliency of action of the armature striking arm is secured by the use of the leaf spring 21 and the possible travel of the arm to and fro is regulatable by the screw 22.

What I claim is:—

1. In a frame for electric bells, the combination of a supporting member having one part of its mass bent angularly with respect to the other, each of said parts being apertured, bell supporting stems attached to one of said parts, a subordinate frame member also apertured correspondingly with the other part of said first mentioned frame member, spool members and supporting screws therefor passing through said registering apertures and serving thereby to clamp the frame pieces together, and an armature pivotally supported at the free end of said subordinate frame member and engaging across the ends of said spools and with its hammer-head end engaging through an apertured portion of the bell-stem supporting branch of the first named frame member intermediate the bells, substantially as described.

2. An electric bell frame, having in combination with a pair of originally independent frame members, a pair of spools and supporting screws therefor engaging through registering apertures in said frame pieces, bell-supporting stems mounted on one of said frame pieces transversely of the axial line of the spools, an armature member

pivoted to the opposite end of the united frame thus constituted from that whereon said bell supporting stems are mounted, and adapted to resiliently engage thereagainst with a projecting tail portion, said armature extending from this point of pivoting across the magnet ends of the spools and through an apertured portion of the opposite end of the frame intermediate the bell supporting stems, substantially as described.

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

HAROLD W. EDEN.

Witnesses:

ALECIA TOWNSEND,

WILLIAM M. SWAN.