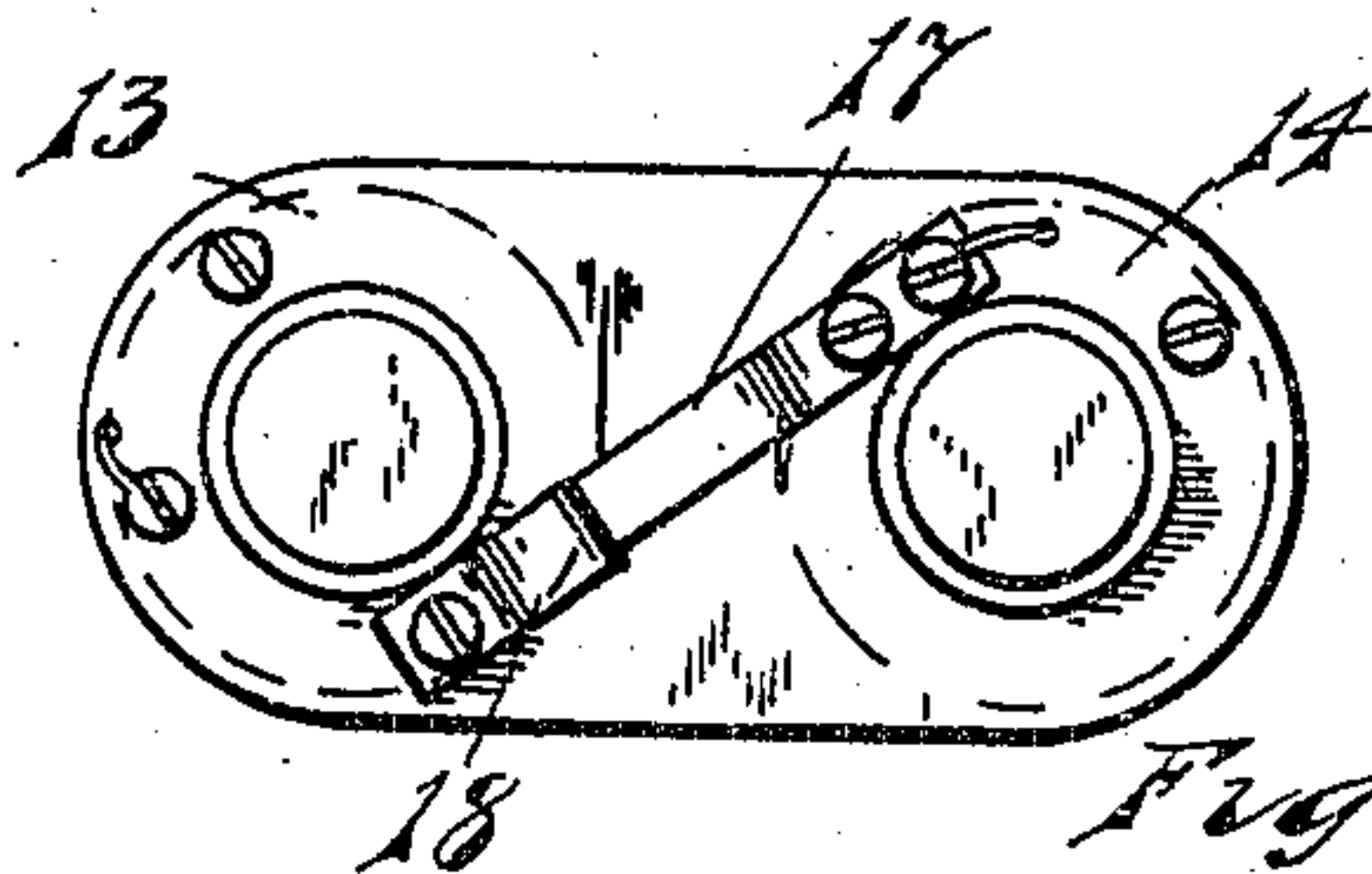
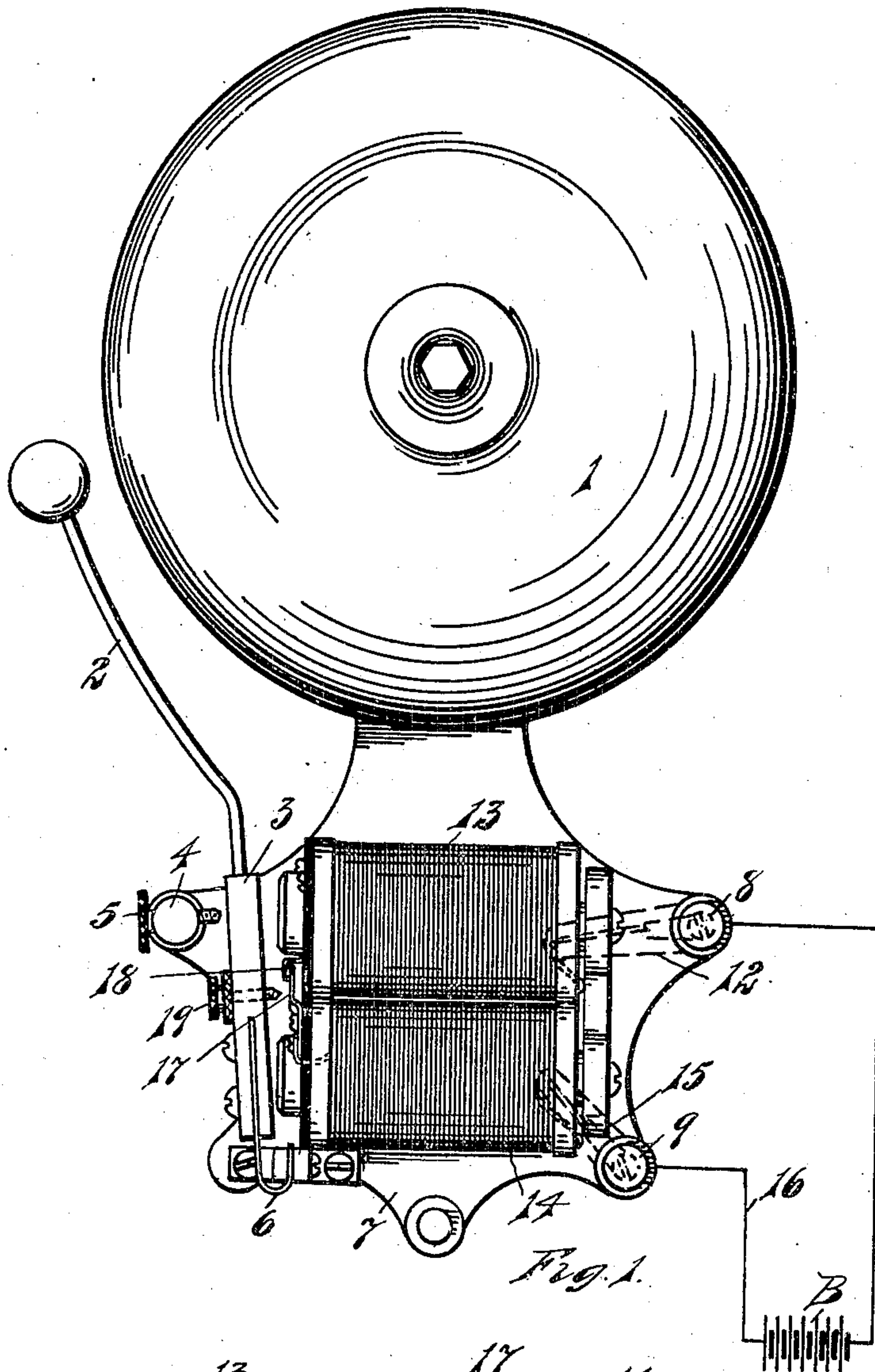


No. 837,674.

PATENTED DEC. 4, 1906.

H. W. EDEN.  
ELECTRIC SIGNAL.  
APPLICATION FILED DEC. 26, 1905.



WITNESSES  
C. E. May.  
W. C. Jennings

Fig. 2 INVENTOR  
Harold W. Eden.

B<sub>3</sub>

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# UNITED STATES PATENT OFFICE.

HAROLD W. EDEN, OF DETROIT, MICHIGAN, ASSIGNOR TO P. R. MANUFACTURING COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

## ELECTRIC SIGNAL.

No. 837,674.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed December 26, 1905. Serial No. 293,209.

*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 Electric Signals; 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 electric signals.

It has for its object an electric signaling-bell in which the electric-circuit-carrying conductor is at all times independent of the frame.

In the drawings, Figure 1 shows the bell in elevation and indicates the wiring. Fig. 2 is an enlarged detail of the connector.

1 indicates the bell; 2, the hammer; 3, the armature; 4, a post with adjusting-screw 5.

6 indicates the armature-spring.

7 indicates the frame.

8 and 9 indicate binding-posts insulated from the frame.

The current from battery B passes to binding-post 8, thence passes under insulating-strip 12 to the coil 13, passes from coil 13 to coil 14 through a vibrating connector, which will be more fully described hereinafter, thence under insulating-strip 15 to binding-post 9, thence back to the battery through circuit-wire 16.

At the connection between the coils 13 and 14 there is located a vibrating tongue 17, secured to the insulating protection-plate at one end of the coil 14 and normally held in contact with an overhanging post 18, that rises from the insulating-guard at the end of the coil 13. The vibrator 17 is in electrical connection with the wiring of the coil 14, and the

post 18 is in electrical connection with the wiring of the coil 13. The energizing-magnets draw the armature which carries an adjustable contact-screw 19, that engages against the vibrating tongue 17 and breaks the connections between the two coils, de-energizes the magnets, and allows the hammer to fly back.

What I claim is—

1. In an electric bell-signal, in combination with a pair of magnetizing-coils, a separable connector between the wiring thereof, an armature carrying a means to engage said separable connector and to break the electric connection therebetween, substantially as described.

2. In an electric bell-signal, the combination of a pair of magnetizing-coils, connecting means therebetween comprising a plurality of separable members normally in contact the one with the other, and an armature engaging across one end of said coils, a portion of said armature being formed to engage said connecting means and to break the electric connection therebetween, substantially as described.

3. An electric bell-signal, having in combination with a source of electrical energy and circuit-wires leading therefrom, a pair of magnetizing-coils, a resilient separable connection between the wiring thereof, an armature and adjustable means carried thereby in position to engage said connection and to break the electric connection between the parts thereof, substantially as described.

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

HAROLD W. EDEN.

Witnesses:

CHARLES F. BURTON,  
WILLIAM M. SWAN.