

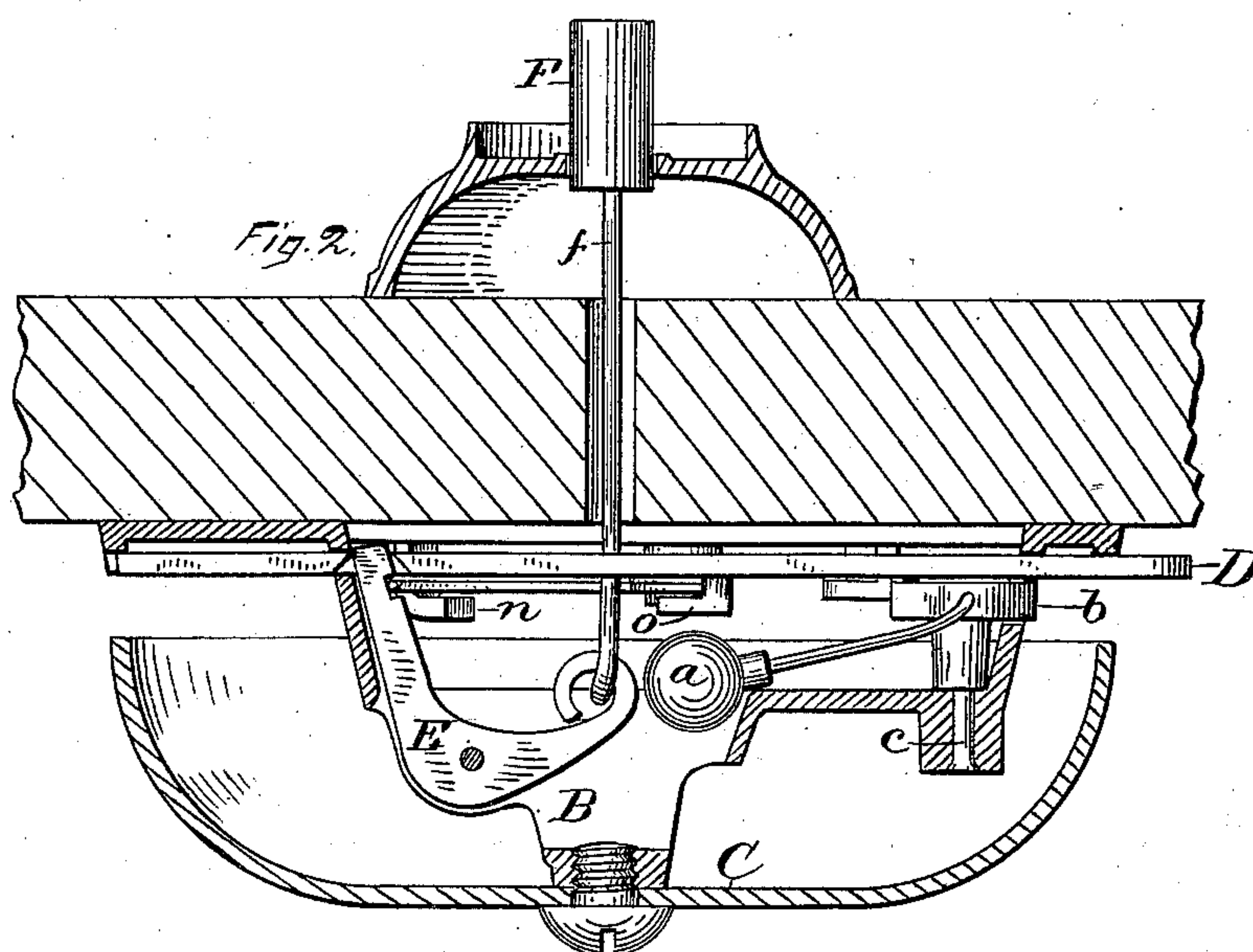
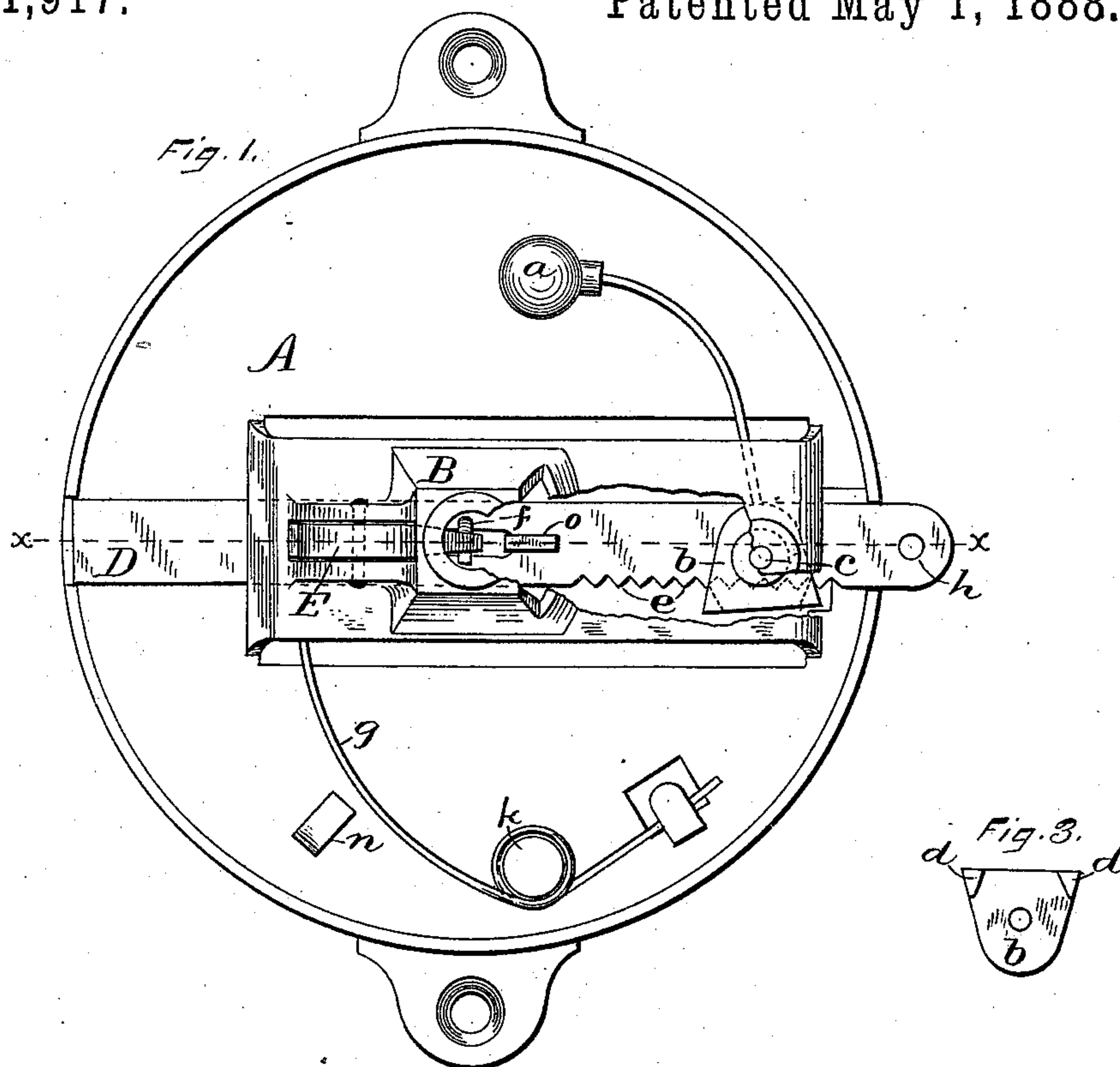
(No Model.)

G. W. EDDY.

SIGNAL BELL.

No. 381,917.

Patented May 1, 1888.



Witnesses.

John Edwards Jr.  
J. Brockway.

Inventor.

George W. Eddy.  
By James Shepard.

Att'y.

# UNITED STATES PATENT OFFICE.

GEORGE W. EDDY, OF NEW LONDON, ASSIGNOR TO HENRY C. WILLIAMS,  
OF NEW BRITAIN, CONNECTICUT.

## SIGNAL-BELL.

SPECIFICATION forming part of Letters Patent No. 381,917, dated May 1, 1888.

Application filed June 7, 1887. Serial No. 240,498. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. EDDY, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Signal-Bells, of which the following is a specification.

My invention relates to improvements in signal-bells of the class in which the hammer vibrates in a series of rapid strokes; and the objects of my invention are to adapt the bell to be attached for operation in several different modes, to simplify the construction of the parts, and thereby lessen the cost, and in general to improve the efficiency of the device.

In the accompanying drawings, Figure 1 is a front elevation of my device with the bell removed and a portion of the frame broken away. Fig. 2 is a horizontal section of my bell, together with a portion of a door, the plane of section being indicated by the line *xx* of Fig. 1, and some of the parts being shown in elevation; and Fig. 3 is a detached view of the escapement-pallets as viewed from the opposite side from that seen in Fig. 1.

A designates the base-plate, having a central frame, B, in which the mechanism is mounted and to which the bell or gong C is attached.

a designates the hammer, whose shank is attached to the pallet-block b, which block is hung upon a pivotal post, c, in the frame B. This pallet-block is provided with pallets d d, Fig. 3, of any ordinary form, said pallets being also indicated by broken lines in Fig. 1. I form these escapement-teeth e, Fig. 1, in the form of a straight rack on one edge of the slide D, which slide is fitted to reciprocate freely through the frame B. Said slide is actuated by means of an angle-lever, E, pivoted in the frame B, having one arm extended through an opening in the slide D, as shown in Fig. 2, and

by the spring g. The other arm of said lever E is connected by a connecting rod, f, to the push-knob or handle F, so that pushing upon said rod will move the slide against the spring, the rack imparting a vibratory movement to the hammer when said rack is moving in either direction. Furthermore, by removing the spring g from the stud k, then replacing it, with its short arm under the hook n and its long arm under the hook o on the slide D, the bell could be operated by pulling upon the handle F instead of pushing.

I am aware that prior patents show bells in which a rapidly-vibrating hammer is operated by means of a circular rack or wheel the teeth of which operate upon suitable pallets, also a vibrating hammer operated by means of a slide bearing a straight rack, and that bell-crank levers are not new in bell-hanging. All of said prior art is hereby disclaimed.

I claim as my invention—

1. In a signal-bell, the combination of the base-plate A, the vibrating hammer and pallets mounted thereon, the straight rack moving over said base-plate, the frame B, also mounted on said base-plate, the angle-lever mounted on said frame and engaging said slide, and a spring acting against said slide and angle-lever, substantially as described, and for the purpose specified.

2. The combination of a bell, the vibratory hammer and pallets, the slide bearing a straight rack, with the teeth in engagement with said pallets, the spring for moving said slide in one direction, the angle-lever, connecting-rod, and handle for moving said slide in the opposite direction, substantially as described, and for the purpose specified.

GEORGE W. EDDY.

Witnesses:

E. LOUISE COMSTOCK,  
LYMAN S. BURR.