

(No Model.)

J. N. CONNOLLY.  
ELECTRIC SIGNALING DEVICE.

No. 514,212.

Patented Feb. 6, 1894.

Fig. 1,

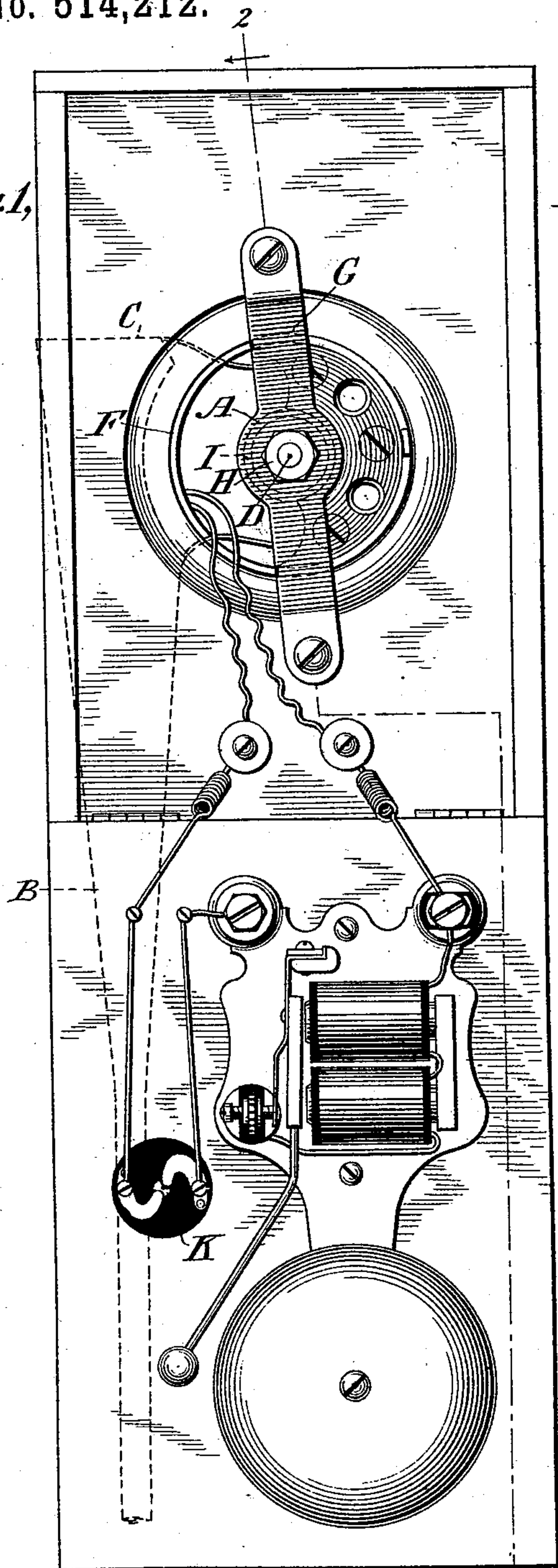
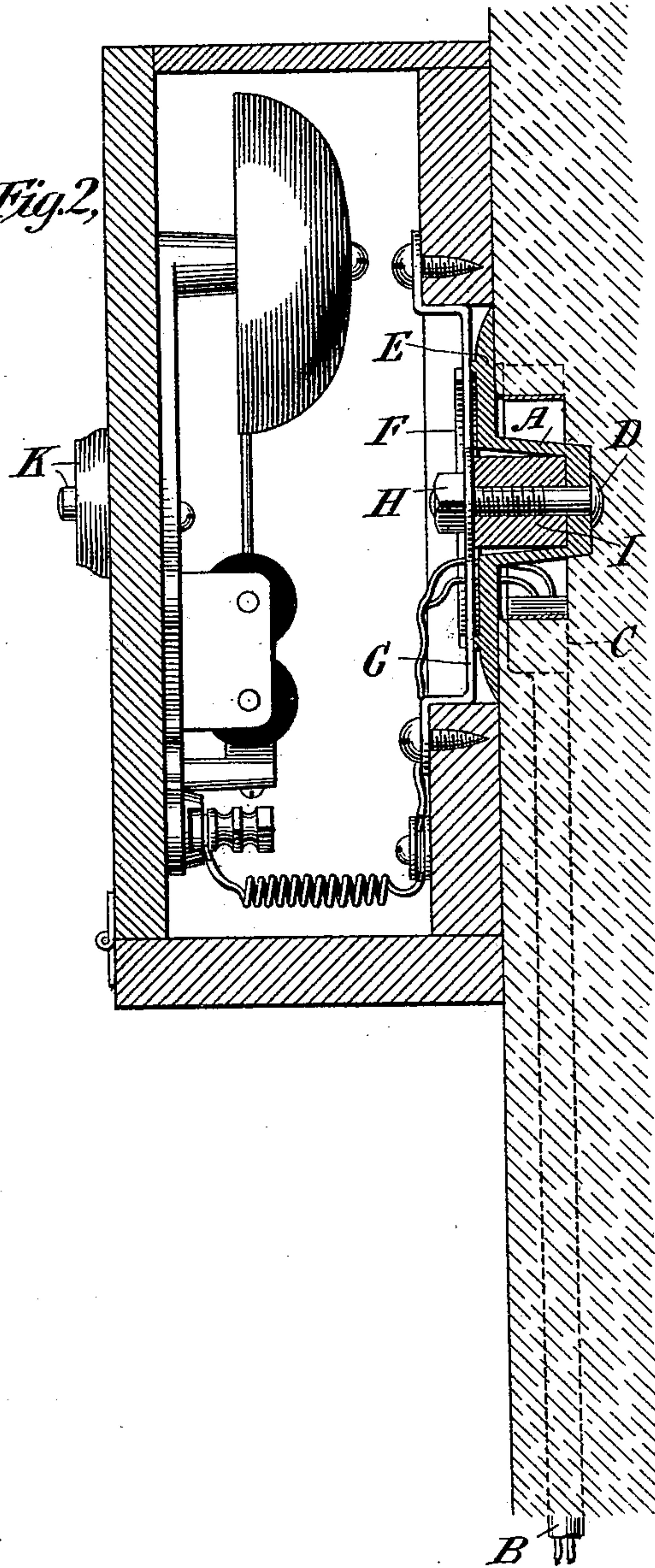


Fig. 2,



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# UNITED STATES PATENT OFFICE.

JAMES N. CONNOLLY, OF NEW YORK, N. Y.

## ELECTRIC SIGNALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 514,212, dated February 6, 1894.

Application filed November 9, 1893. Serial No. 490,447. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES N. CONNOLLY, a citizen of the United States, residing in New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Electric Signaling Devices, of which the following is a specification.

This invention relates to electric bells or other signaling devices, and has for its object to permit the installation of signaling systems in residences, hotels or other buildings, either during or after the erection of such buildings, without injury to the walls or woodwork, and without using screws or nails on the walls or woodwork of the rooms.

In carrying out my invention, I mount a circuit-closer, or both a circuit-closer and an electric call, on a suitable frame which is so constructed that it may be readily attached to the bell pull fixture with which most large buildings not strictly modern in construction are equipped.

The several features of novelty of the invention will be more particularly hereinafter described in the specification, and will be definitely indicated in the appended claims.

In the accompanying drawings, which illustrate the invention, Figure 1 is a face view of a frame or box provided with my improvements, clamped upon the center post and other fittings of the ordinary bell pulling equipment, the lid of the box being thrown open; and Fig. 2 is a sectional view on the plane indicated by the lines 2—2 of Fig. 1, the box being closed.

Referring to the drawings, A represents a cast iron socket fixed to a tube B of tin, which connects the several rooms of a house with some central point. Through these tubes, which terminate at each room or apartment in a throat C connected to the socket A, are ordinarily carried the bell cords or wires which terminate in the bell room, and in each room is a crank lever mounted upon a center post D, which crank lever is provided with a handle convenient of access to a person in the room, and with a crank arm connected to the bell cord or wire. I find that such a system admits readily of the application of an electric bell or other signaling system. The circuit wires may be readily threaded through the tubes and carried out into the several

rooms without defacing or mutilating in any way the walls, woodwork or other material. I utilize the center post D as a support for the closed frame or box in which is mounted an electric call, and upon which is also mounted one or more circuit-closers or push buttons for signaling purposes. The box or frame is provided with a circular opening in the rear so that it may be brought against the surface of the wall around the flange E of the cast iron socket above referred to. These sockets are provided with a circular edge or ridge F for the purpose of limiting the throw of the bell-crank. I utilize this ridge to form stops against which a metal yoke G fastened to the back of the box may be lodged. The center of the yoke is provided with a perforation through which the center post D projects. A nut H screwed upon the center post, after the yoke has been placed over the same, clamps the box firmly to the wall and locks it against lateral displacement. A suitable washer I is provided to form an abutment against which the yoke may be locked. The bell, as indicated in the drawings, will preferably be inclosed within the box and the proper circuit connections made with the wires projecting from the throat C, and a push button K or other circuit-closer may be mounted upon the outside of the box. It will thus be seen that the entire signaling outfit for a room is inclosed in a dust-proof case, and may be readily affixed in place and provided with the necessary circuit connections for establishing signaling communication, without mutilation of the walls, woodwork or other material.

The box or case containing the connections and signaling outfit will preferably be provided with a hinged cover, as shown, so that when desired the cover may be thrown open and any necessary adjustment which the bell requires, or any desired change in the circuit connections, may be made. The bell is preferably mounted upon the cover of the box, which thus acts as a sounding board and intensifies the sound. This will be found of especial advantage when buzzers or other forms of low-toned calling devices are employed.

When it is desired to have a circuit-closer at a different part of a room from that at which the box is located, binding posts may

be readily connected to the box and a flexible cord connected therewith.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A signaling device comprising a box or frame upon which is mounted signaling apparatus, provided on one side with an opening to receive the center post of a bell-pulling outfit, and means for locking the box in position upon said post.

2. A signaling apparatus comprising a closed box containing an electric bell, and having

mounted thereon a circuit-closer, said box having an opening in the rear to permit it to be placed over the socket of a bell-pulling outfit, a support over the opening adapted to receive the center post of the outfit, and means for locking the support upon the post.

In testimony whereof I have hereunto subscribed my name this 6th day of November, A. D. 1893.

JAMES N. CONNOLLY.

Witnesses:

THOS. J. FLANAGAN,  
THEODORE A. BURNETT.