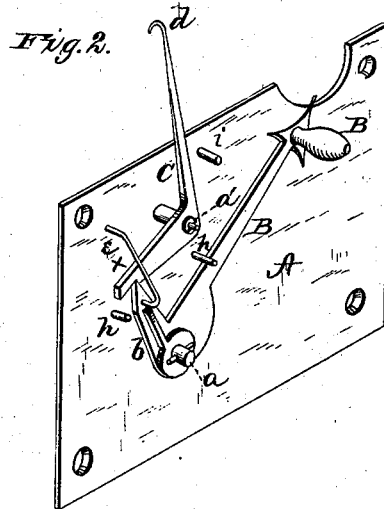
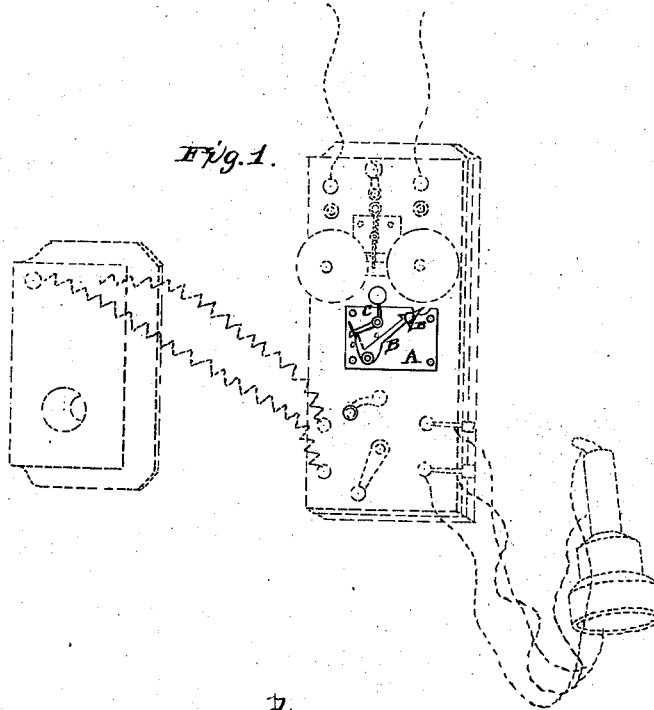


C. W. JONES.
Indicator for Telephone Alarm Bells.

No. 203,738.

Patented May 14, 1878.



WITNESSES
Frank L. Curand
H. Aubrey Tremaine BY

INVENTOR
Charles W. Jones
Alexander Mason
Attorneys

UNITED STATES PATENT OFFICE.

CHARLES W. JONES, OF VINCENNES, INDIANA.

IMPROVEMENT IN INDICATORS FOR TELEPHONE ALARM-BELLS.

Specification forming part of Letters Patent No. 203,738, dated May 14, 1878; application filed April 8, 1878.

To all whom it may concern:

Be it known that I, CHARLES W. JONES, of Vincennes, in the county of Knox, and in the State of Indiana, have invented certain new and useful Improvements in Indicators for Telephone Alarm-Bells; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an alarm-indicator to be applied to a telephone or any other instrument which has an alarm-bell attached to it, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 shows my invention attached to a telephone in position set to receive alarm. Fig. 2 is a perspective view of the indicator alone.

A represents a plate, of suitable dimensions, to be attached to the telephone below the alarm-bell. Upon a stud, *a*, on this plate is pivoted a lever, B, the outer end of which forms the indicating-hand, and is provided with a handle, B'. The inner end of the lever B has an arm, *b*, extending upward from it at right angles, and the end thereof is made pointed, as shown.

Above the lever B, on a stud, *a'*, is pivoted an L-shaped lever, C, the upper arm of which terminates in a wire hook, *d*. The other arm of the lever has a notch at *x* to fit over the pointed end of the arm *b*, as shown in the drawing, when the indicator is set in position ready to receive the alarm.

A wire, *e*, is attached to the arm *b*, passing over the lower arm of the lever C. *h h* are pins to limit the movement of the lever B, and *i* is a pin for the same purpose for the lever C.

When the alarm is sounded the lever C turns on its pivot, and the indicating-lever B drops down, showing at a glance that the alarm has been rung.

The alarm-indicator is operated by the vibration of the hammer of the call-bell in striking the alarm.

The hammer or arm of the hammer, against which the upright arm C of the indicator is placed, strikes the upper arm of the indicator, which is pushed back, and the lower part of this arm C is consequently raised, and thereby releases the lower lever B from the notch *x* in the arm C, and the lower lever thereby drops downward, and thus, by its position, shows that the alarm-hammer has been vibrated by having been rung by the operator at the other end of the line or some intermediate station of the line.

The use of the indicator is to show the operator whether or not the alarm has been rung during his absence from the room containing the instrument. It may be applied to any instrument which has an alarm-bell attached, or to any alarm bell or spring used for the purpose of an alarm, or to a telegraphic switch-key, or, in fact, to any instrument which is used as a means of communication between different points.

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

The indicating-lever B, with its pointed arm *b*, and the lever C, having a notch, *x*, in its lower arm, and combined with the alarm of a telephone or other instrument, so that the vibration of the hammer-lever will operate the indicator, for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of March, 1878.

CHARLES W. JONES.

Witnesses:

CHARLES HEIDENREICH,
JACOB METZGER,
JACOB MANDERY.