

H. HART.
Burglar-Alarm.

No. 214,129.

Patented April 8, 1879.

Fig. 1.

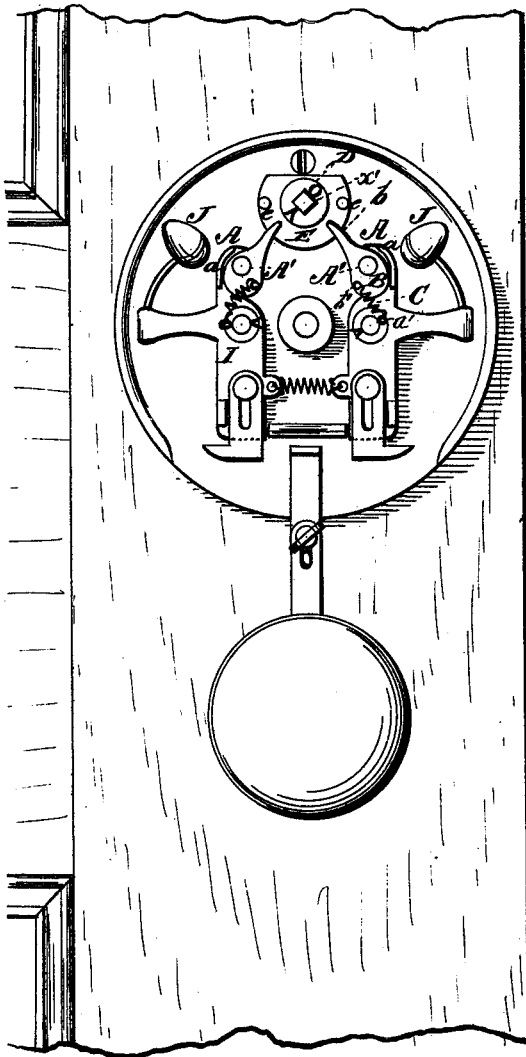
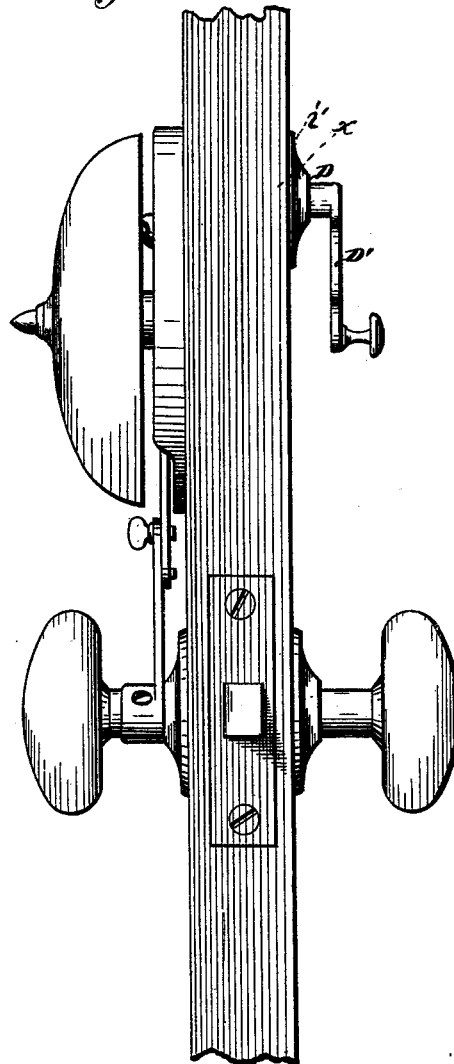


Fig. 2.



WITNESSES

Robert Enneth
H. Clay Smith.

By

INVENTOR=

INVENTOR=
Horace Hart.
Cushman, Smith & Co.
ATTORNEYS.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HORACE HART, OF LITTLE VALLEY, NEW YORK.

IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. 214,129, dated April 8, 1879; application filed February 21, 1879.

To all whom it may concern:

Be it known that I, HORACE HART, of Little Valley, in the county of Cattaraugus and State of New York, have invented certain new and useful Improvements in Burglar-Alarms; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a face of my burglar-alarm, showing the bell removed; and Fig. 2 is a side elevation view of the same.

My invention relates to a combined burglar-alarm and door-bell; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

The invention is designed as an improvement upon the device set forth as a burglar-alarm in Patent No. 201,008, granted to me March 5, 1878, the construction of which will not be fully described herein.

The invention consists in combining with the burglar-alarm described in the said patent a door-bell of peculiar construction, the alarm being made from the same bell used in the burglar-alarm, and the operating mechanism of such door-bell being intimately related to the mechanism of the burglar-alarm, as will be more fully hereinafter set forth.

In carrying out my invention I extend the elbow-lever I of the patent spoken of upward, to provide pivotal bearings on each for spring-levers, which are held against shoulders cast on said elbow-levers with the constant force of a spring, as shown, and, being forced in one direction, turn the said elbow-levers with it, causing the alarm to be struck, while in the other direction said levers turn idly upon their pivots, as shown.

Through the door and base-plate I provide a hole, in which operates a shaft having on the outer side a crank and upon the inner side a disk-plate having arms or lugs, which lugs operate upon the spring-levers and strike the alarm as the shaft is turned in either direction.

It will be observed that in the door-alarm the alarm mechanism of the burglar-alarm is used,

Referring to the drawings, I represents the elbow-lever of the burglar-alarm mentioned, and J the alarm-hammer, which strikes the bell.

Cast in one piece with the lever I, upon its upper extremity, is an arm, A, having shoulder *a*, and pivotal bearing A' for a lever, B, having arm *b* and lug *b'*, as shown. This lever is held against the shoulder *a* in one direction by the constant force of a spiral spring, C, which connects the lug *b'* with the pivotal lug *a'* of the elbow-lever I, and when the said spring-lever is forced in one direction the shoulder engages it and turns the elbow-lever with it, causing the alarm to strike, while in the opposite direction the spring allows the lever to turn idly, as is obvious.

D represents a revolving shaft, which operates through an aperture in door *x* and base-plate *y'*, and upon the end it is provided with an ornamental rigid crank-handle, D', by which it may be revolved in either direction. Secured to this shaft D, upon the inner side of the base, is a plate, E, which turns with the shaft D, and is provided with lugs *e*, which operate upon spring-levers B, as shown.

When the shaft D is revolved in one direction, the lugs *e*, bearing upon the arms *b* of the spring-lever, force one of the hammers to strike the alarm, while the other remains idle, and when the shaft revolves in the opposite direction an opposite result is attained.

The operation of the invention from the foregoing description is obvious.

I claim—

1. The door-alarm mechanism consisting of the shaft D, crank D', and plate E, having lugs *e*, in combination with the levers B, having arms *b* and lugs *b'* and the springs C, and the elbow-levers I I, having pivotal bearings A' A', arms A A, and shoulders *a a*, as and for the purposes set forth.

2. The combination of the shaft D, plate E *e*, and spring-lever B *b b'* C, combined with the elbow-lever I A *a A'*, hammer J, and bell, as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

H. HART.

Witnesses:

WILLARD GOULD,
E. A. NASH.