A. Corey.

Burglar Alarm.

No. 20,333. Patented May 25, 1858.

Plate 1.

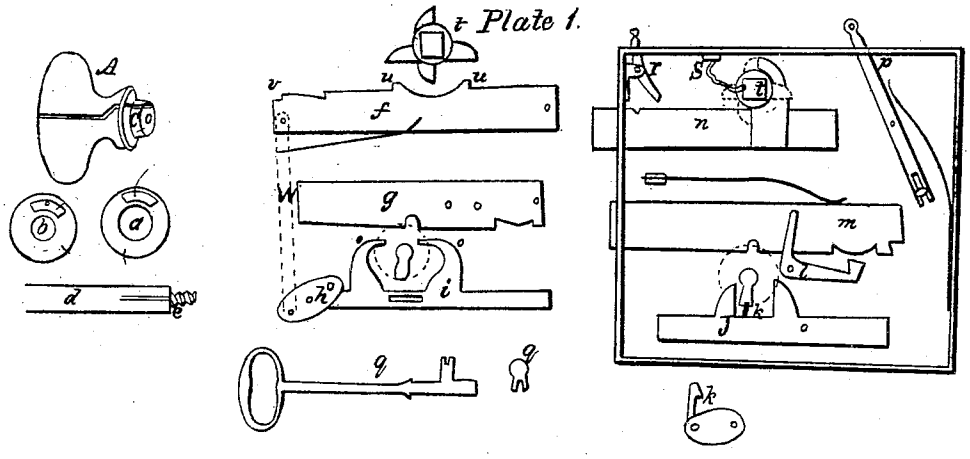
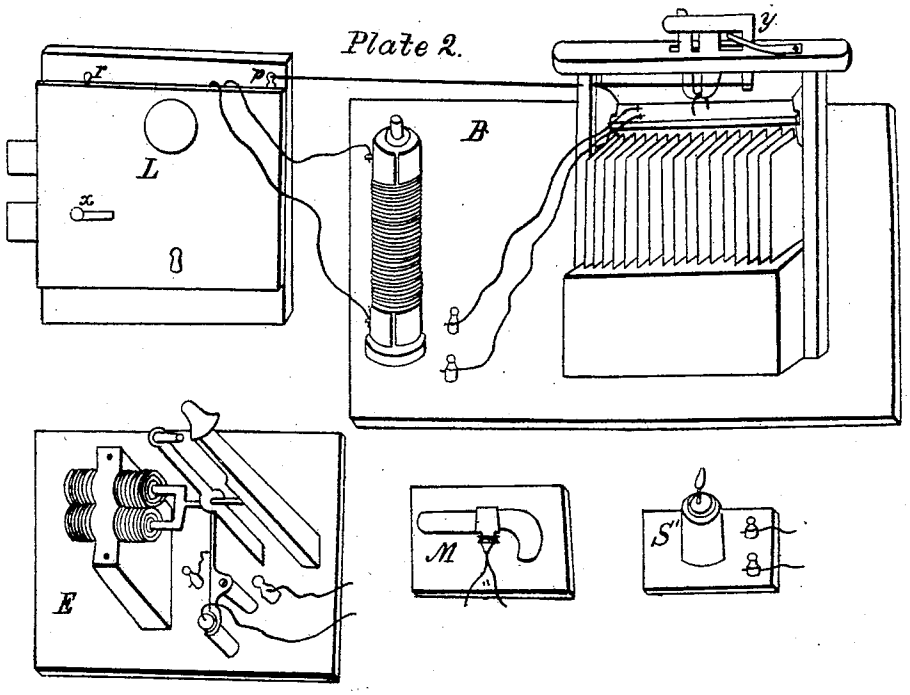


Plate 2.



THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

A. COREY, OF CASSTOWN, OHIO.

IMPROVEMENT IN BURGLAR-ALARM LOCKS.

Specification forming part of Letters Patent No. **20,333**, dated May 25, 1858.

To all whom it may concern:

Be it known that I, ADDISON COREY, of the town of Casstown, in the county of Miami and State of Ohio, have invented a new and useful Improvement on a Door-Lock with Attachments; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a door-lock with a spring and attachments, so that electricity may be thrown on the knob, when desired, to hold any one's hand thereon who may be meddling therewith, and also to ring a bell-engine in the bedroom or elsewhere, to light a galvanic lamp, and fire a voltaic pistol, for the better protection of persons and property from burglars entering their apartments while asleep, giving warning of the presence of the same, that they may be taken and secured.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

A lock may be made of any size or pattern desired, with the outside knob, A, Plate I, divided into two sections and insulated, so that the bar which works the latch will screw tightly into one of these parts, that it may be taken off and another put in its place whenever desired.

The knob may be made of brass or other metal, and insulated with gum-shellac or any other substance accomplishing the same; or mineral or other kinds of knobs may be constructed with two pieces of metal embedded in them as ornaments or otherwise, and connected as hereinafter described.

A ferrule or ring, *a*, is made to slide on the knob at *c*, and another, *b*, to slide on the bar working the latch at *e*, each of these having a corresponding piece of metal inserted in them, and the one *b* having a hole for the reception of the end of a wire, *d e*, and the metal piece in *a* coming in contact with the insulated part of the knob, these ferrules being made of wood, ivory, bone, or some non-conducting substance. These two pieces thus put on and the knob screwed on tightly brings one part of the knob in connection with the bar and the other with an insulated wire, *d e*, passing along in a groove in the bar *d* and cemented in its place with gum-shellac, and terminating with an insulated conducting-cord, *s*, fastened to an insulated metal piece inserted in the upper part of the lock-frame or otherwise, as at *s'*.

The lock is provided with a lever, *p*, operated on by a spring and fastened on the right-hand end of the bolt *f* and working on a pin at the lower end, so that, taking hold of the top of the lever *p* and drawing it back, the bolt *f* will draw back and catch in the notch *v*, and then it is set. Now, if the knob be turned either way, the two arms at *t* will press on the wart at *u* or *u* and bear the bolt *f* down out of the notch *v*, and allow the spring to throw the lever *p* forward with a jerk; and, also, the lever *i*, having two horns, *o o*, which, if pressed either up or down, will press on either of the two pins in the piece *h*, which turns on the center pin, and draw the bolt *f* down out of the notch *v*, as before, by the arm *w*; and, again, if a key be inserted which is not provided with its appropriate notches, it will pass on the inclined point *k*, which passes through the slot at *i*, and depress the lever *i* and spring the bolt *f* as before.

The piece *k* is fastened to the bolt *j* so as to work up and down, but not lengthwise with regard to the bolt, and the bolt *j* is to throw this point *k* out or in the key-circle, so that another key will not pass when the point is in the circle of the key, and the key *q q* having two notches so arranged as to pass over the point *k* and *o o*, and unlock the bolt *g* and throw the bolt *j* back and bring the point *k* out of the way of the main key, which unlocks the bolt *m*. The bolt *g* has two pins in it to work against the upright arm of *l*, so that after bolt *m* is locked *g* will lock and move *l* into the notch at *m* and hold the main bolt *m* fast until *g* is unlocked. There is also a sliding button, *x*, Plate II, fastened to the bolt *g*, that it may be fastened from the inside, and no key can unlock it, which secures the bolt *m* from being unlocked.

t is the piece or tumbler which slides on the bar *d* and works the latch.

m and *n* are the bolt and latch of a common lock. The bolt *f* is placed by the side of *n*, *g* by the side of *m*, and *j* by the side of *i*, as will be seen in the lock. There are two keys to be used with the lock, the one to lock and unlock the bolt *g* with its two notches, as seen at *q q*,

and the other to lock and unlock the bolt *m*, and the keys can be varied in different locks. The attachments are, B, a galvanic battery, arranged with a clamp and treadle, *y*, Plate II, to hold the galvanic plates over and out of the solution, which treadle is to be connected to the lever *p* in the lock, so that when the knob is turned or a key or wire inserted which may touch and bear on the points *k o o*, it will draw the bolt *f* out of the notch *v*, spring the lever *p*, and draw the treadle *y* and let the plates into the solution to generate electricity. The windows are also to be connected to this treadle for the same purpose.

A bell-engine, E, is to be set in the bedroom or any other desired place and attached to the battery to awaken any person in the room when the door or windows are disturbed. A galvanic lamp, S, is to be attached, which will instantly light up the room, and a voltaic pistol, M, is to be attached, when desired, in order to scare the robbers away when too timid to go out and take them. Any or all of these attachments may be used at the same time.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application to door-locks of the insulated knob, these extra bolts, levers, and springs in this arrangement with any lock, and these several galvanic attachments in combination with the lock, as herein described, or any others substantially the same, and which will produce the intended effect.

ADDISON COREY.

Witnesses:

WILLIAM BURTON,

ASA ROGERS.