

UNITED STATES PATENT OFFICE

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IMPROVEMENT IN ALARM-LOCKS.

Specification forming part of Letters Patent No. 210,546, dated December 3, 1878; application filed October 16, 1878.

To all whom it may concern:

Be it known that we, THOMAS B. LUMPKIN and WILLIAM D. BENSON, of Rossville, in the county of Chester and State of South Carolina, have invented certain new and useful Improvements in Locks; and we do hereby declare that the following is a full, clear, and exact description thereof, 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.

This invention has for its object to furnish a burglar-alarm lock; and it consists in the combination of two locks, so constructed and connected together by levers and arms that the unlocking of one will cause the discharge of a loaded pistol, and cause the locking of the other.

In the drawings, Figure 1 shows the inner mechanism of the two locks constructed and arranged according to our invention, and Fig. 2 shows a modification in the construction of the lower lock, in order to provide suitable connecting mechanism when the intermediate pistol is dispensed with.

a is the casing or block, in which are secured the two locks *b* and *c*, arranged, by preference, one above the other. The combined lock may be attached to the door with either lock *b* or lock *c* uppermost, as may be desired. We have shown them arranged with lock *b* uppermost.

On the lower left-hand corner of the casing *a* we have placed a section, *a*¹, hinged at *a*², so that it will turn down out of its place when desired, it being held in place by a spring-catch, *a*³. Mounted on this section *a*¹ is a pistol or alarm gun, *d*, so arranged with reference to the lock *c* that the bolt of the latter will strike the nipple *d*¹ and explode the charge.

The bolt *b*¹ of the lock *b* slides on a pin, *b*², and has its rear end provided with a projecting arm or pin, *b*³, against which the spring *b*⁴ bears, as shown. *e* is a dog, which turns on the pin *b*², and is provided with notches or shoulders *e*¹ *e*², which engage the pin *b*³ on the bolt *b*¹, and hold the latter locked or unlocked, as required. The dog *e* is held down by a spring, *e*³. Formed on the rear end of the dog *e*, and projecting outward from the recess in

which the lock *b* is placed, is the lever-arm *e*⁴, by which the notch or shoulder *e*¹ may be disengaged from the pin *b*³, so that the said bolt *b*¹ may be thrown outward by the spring *b*⁴.

f is a lever pivoted to the frame *a*, so that its upper curved end, *f*¹, bears on the outer end of the lever-arm *e*⁴, while its lower end, *f*², extends downward to and in front of the muzzle of the pistol *d*. The bolt *c*¹ of the lock *c* is provided with a stop, *c*², and slides horizontally on a pin, *c*³, on which is pivoted a dog, *c*⁴, provided with notches *c*⁵ *c*⁶, which engage the pin *c*². The dog *c*⁴ is held in place by a spring, *c*⁷. On the rear end of the bolt *c*¹ there is formed an extension, *c*⁸, on which is a hammer or head, *c*⁹, arranged to strike the nipple *d*¹ in the rear movement of said bolt and explode the charge in the pistol *d*. The bolt *c*¹ is thrown back by the strong spring *g*, which has one end attached to the case, and the other to the rear end of said bolt, as shown. Suitable key-holes *h* *h*¹ *h*² are provided; also, a suitable key-hole is provided, (not shown in the drawings,) whereby the catch *a*³ may be disengaged by drawing back the connecting link or rod *i*. The catch *a*³ may also be thrown back by direct pressure exerted on it. A suitable spring, *k*, is placed behind the hinged block *a*¹ to throw the latter open when the catch *a*³ is disengaged.

The operation of the device is as follows: The pistol *d* is loaded with a wad of sufficient solidity, which, when the charge is exploded, will force outward the end *f*² of the lever *f*. The lock *c* is fastened, as shown, and the lock *b* is left unlocked. Any attempt to unlock the lock *c* will release the dog *c*⁴ from its pin *c*², when the spring *g* will throw back the bolt *c*¹, and the hammer *c*⁹ will strike and explode the cap on nipple *d*¹ and the charge in the pistol *d*. The wad from the pistol will strike the end *f*² of the lever *f*, and the end *f*¹ will press down on the arm *e*⁴ of the dog *e* and raise the latter from its hold on the pin *e*¹, thus releasing the bolt *b*¹, which will be forced outward by the spring *b*⁴, and thus fasten the lock *b*. If desired, both locks may be locked.

If the first to be unlocked should be lock *b*, then in unlocking lock *c* the said lock *b* would be relocked, as above explained.

If the lock *c* should be the first unlocked,

the alarm would be given by the exploding of the pistol, while the lock *b* would hold the door fast.

It will be understood that this lock could be used without the pistol *d* in case the alarm be not desired. In this case the pistol would not be attached, and the end *c*³ of the bolt *c*¹ would be extended sufficiently, as shown in Fig. 2, so that in the backward movement of the bolt the head *c*¹⁰ would strike the end *f*² of lever *f*, giving the same result as described for the use of the pistol and wad. We prefer always to use the pistol, as thereby we secure an alarm as well as the locking of lock *b*.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination, with the bolt *b*¹ in lock *b* and bolt *c*¹, having extension *c*³ in lock *c*, of the dog *e*, having the extension or arm *e*⁴, le-

ver *f*, and the springs *b*⁴ and *g*, the lower end, *f*², of the lever *f* and the bolt *c*¹ being arranged with reference to each other, and having suitable intermediate connecting mechanism, substantially as set forth.

2. The combination, with the bolts *b*¹ and *c*¹, constructed as described, and arranged, respectively, in locks *b* and *c*, and operated by springs *b*⁴ and *g*, and dog *e*, having the extension *e*⁴, of the pistol *d* and rocking lever *f*, all arranged to operate substantially as set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

THOMAS B. LUMPKIN.
WILLIAM D. BENSON.

Witnesses:

JACOB BAKER,
D. B. LUMPKIN.