H. J. D. MINER & D. T. SEELEY.

BURGLAR-ALARM.

No. 191,067. Patented May 22, 1877.

Fig. 1

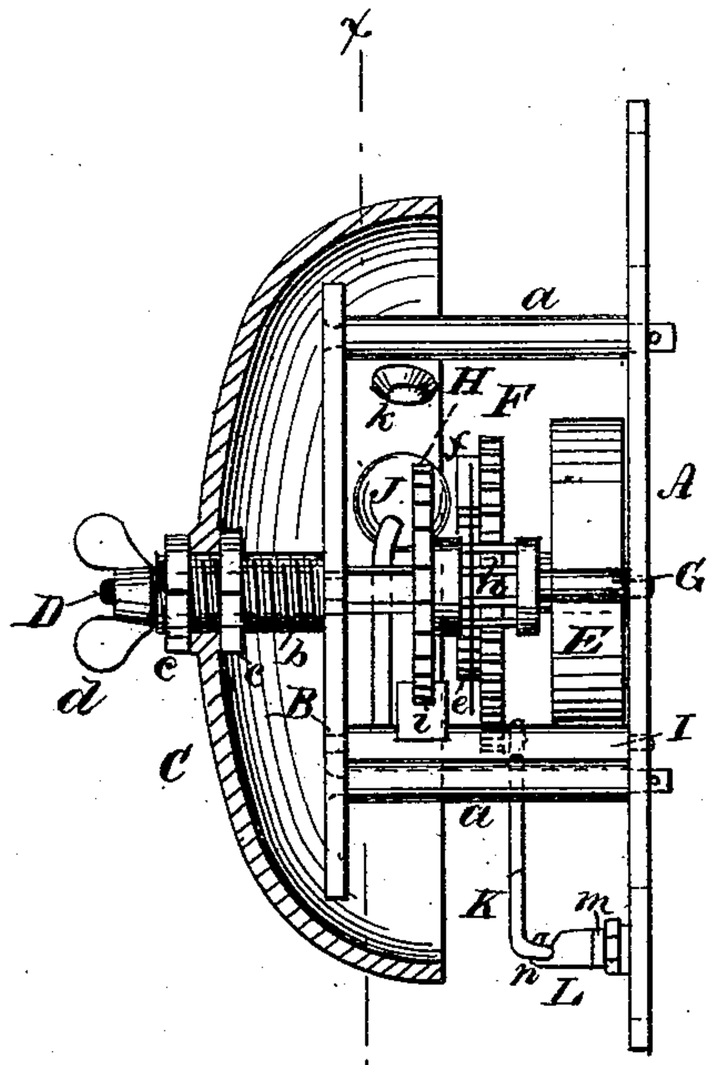


Fig. 2

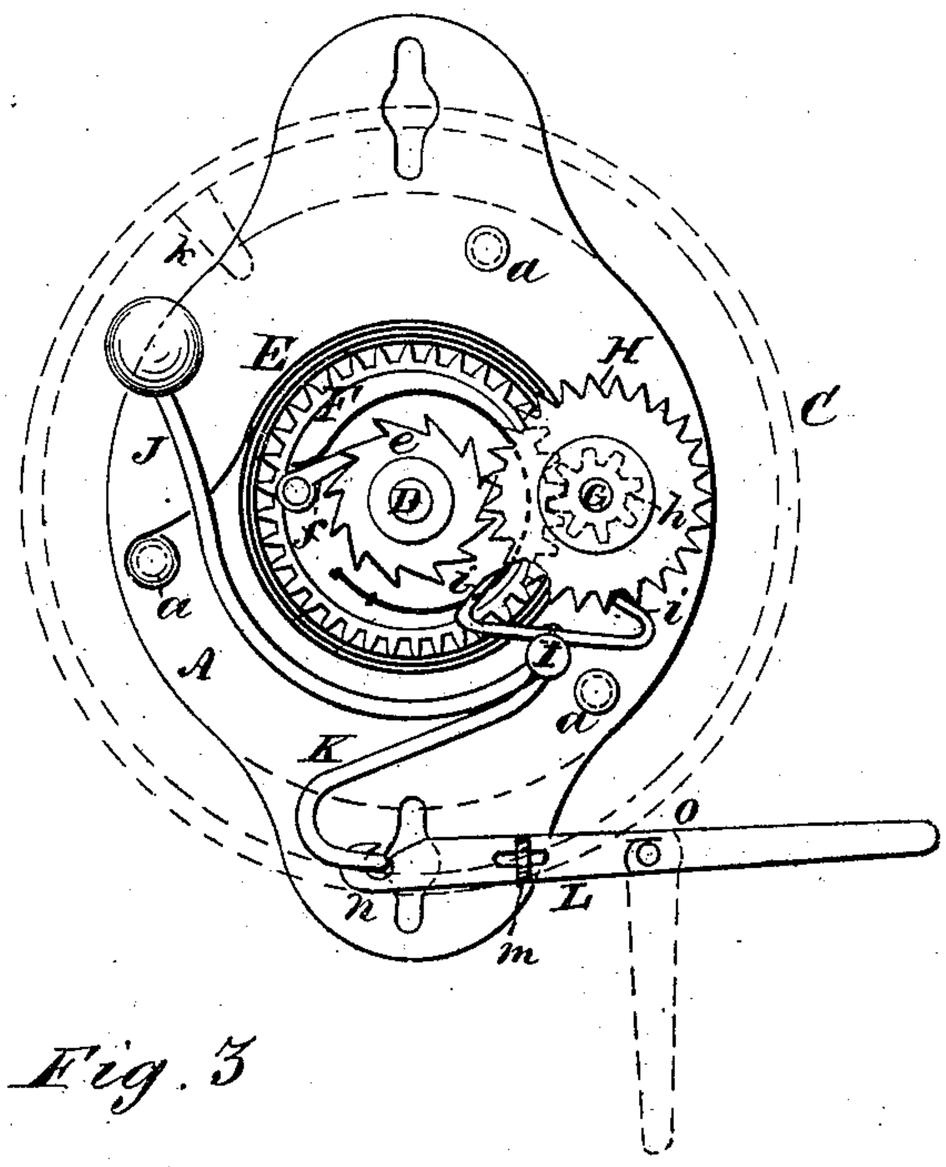
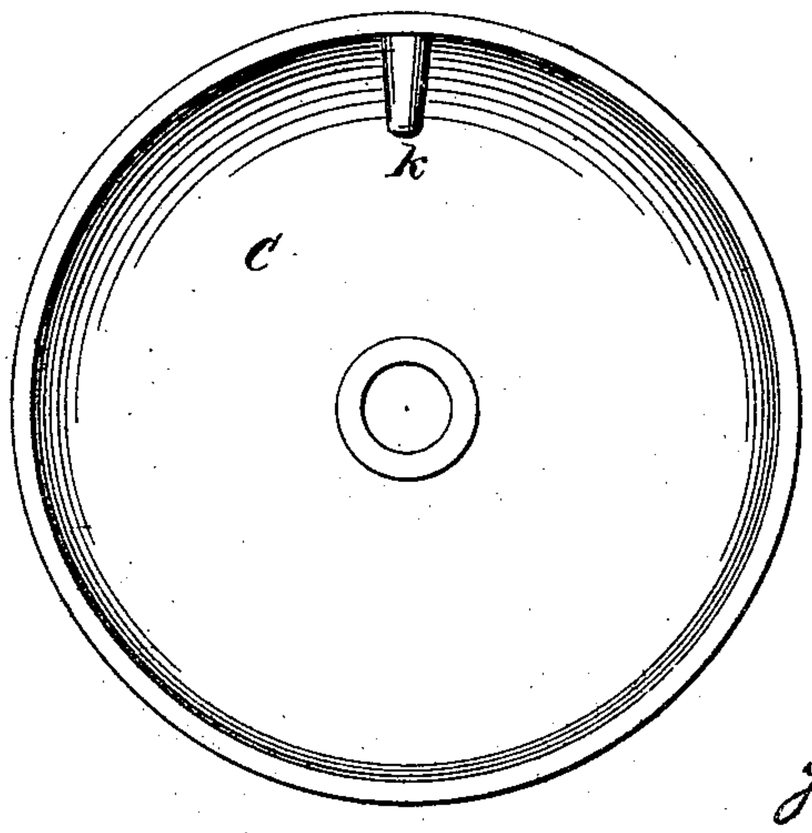


Fig. 3



WITNESSES:

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HIRAM J. D. MINER AND DANIEL T. SEELEY, OF DUNKIRK, NEW YORK.

IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **191,067**, dated May 22, 1877; application filed April 23, 1877.

To all whom it may concern:

Be it known that we, HIRAM J. D. MINER and DANIEL T. SEELEY, of Dunkirk, county of Chautauqua, and State of New York, have invented a new and Improved Door and Window Alarm, of which the following is a specification:

Figure 1 is a side elevation in part section. Fig. 2 is a front elevation in section on line *x x* in Fig. 1. Fig. 3 is a detail view of the bell.

The object of our invention is to provide a compact and inexpensive alarm for attachment to doors and windows, which will indicate the opening of the same by releasing a spring-actuated train of gearing, which rings a bell.

In the drawing, A is a plate, from which the posts *a* project that support the plate B. From the center of the plate B a threaded tubular standard, *b*, projects, upon which is placed a bell, C, that is fastened upon the standard *b* by nuts *c c*.

D is a shaft that is journaled in the plates A B, and extends through the tubular standard *b*, and is provided with a thumb-piece, *d*, at its front or outer end. A coil-spring, E, is attached to the shaft D and to one of the posts *a*. A ratchet-wheel, *e*, is secured to the shaft D, and a spur-wheel, F, is placed loosely on the shaft, and to it a pawl, *f*, is pivoted, that engages with the ratchet *e*. G is a shaft that is journaled in the plates A B, and to it a pinion, *h*, is secured, that meshes with the spur-wheel F. A scape-wheel, H, is also secured to the shaft G.

Pallets *i i* are secured to a rocking shaft, I, and are engaged by the scape-wheel H. The hammer J and the arm K are attached to the shaft I. The head of the hammer J is arranged, with respect to the bell C, so that it may strike a stud, *k*, that projects from the inner surface of the bell as the hammer is vibrated by the action of the scape-wheel and pallets.

L is a lever that is fulcrumed on a stud, *m*, that projects from the plate A, and it is provided with a hook, *n*, that engages the end of the arm K, which is bent downward or upward at right angles toward or from the plate A.

The end of the lever L having the hook *n* is bent outward from the plate A at its pivot, and the lever is jointed at *o*, to admit of turning it out of the way when the apparatus is not to be used. The joint is rigid in one direction, so that when pressed by a window or door it will release the arm K and allow the hammer to vibrate.

The alarm is attached to doors and windows by fastening the plate A to the door or window, or casings, in such a position that the lever L may be moved by the window or door on being opened. The movement of this lever liberates the arm K, and permits the gearing to act on the pallets and vibrate the hammer, which strikes the stud *k*, causing the bell to ring.

The alarm may be placed so that the lever L is moved so as to throw the hook laterally from the end of the arm K, or it may be moved so as to slip the hooks from the end of the said arm.

The spring E is wound by turning the thumb-piece *d*, and the alarm is prevented from operating by turning up the end of the lever L.

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

1. The combination, with the bell and the main frame, of the shaft D, having detachable screw-threaded thumb-piece *d*, the threaded tubular sleeve *b*, and the nuts *c c*, substantially as and for the purpose described.

2. The combination, with the bell, the hammer-rod, and the pallet, in an alarm mechanism, of the hooked lever L, provided with a jointed section, arranged to be bent in one direction out of the way and to be rigid in the other, so as to permit the releasing of the alarm devices, substantially as described.

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Witnesses:
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