J. N. WEBSTER & D. FEY.

Improvement in Portable Burglar-Alarms.

No. 129,698. Patented July 23, 1872.

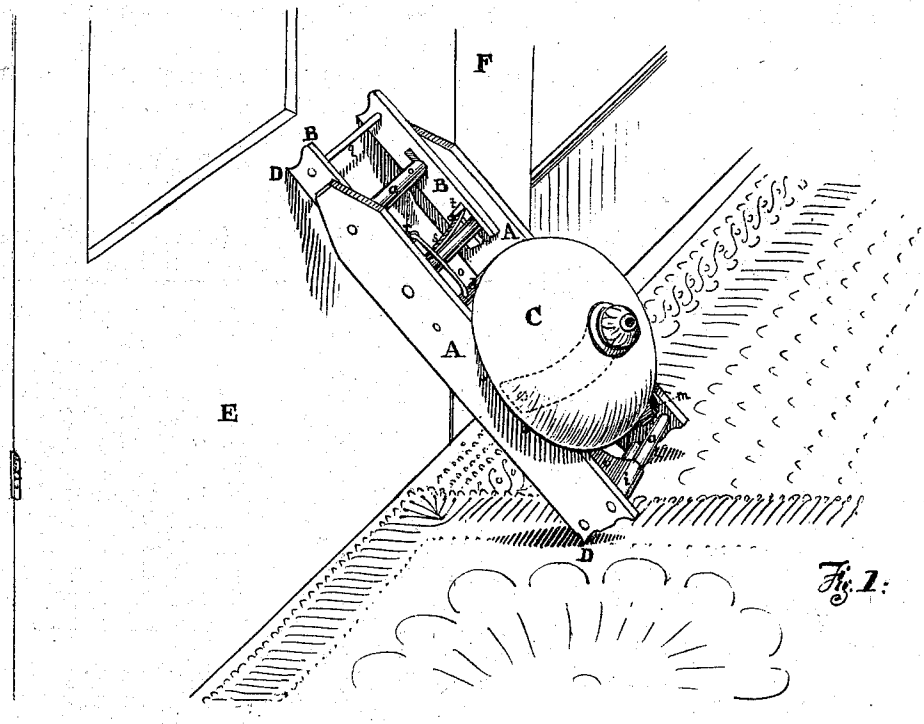

Fig. 1.

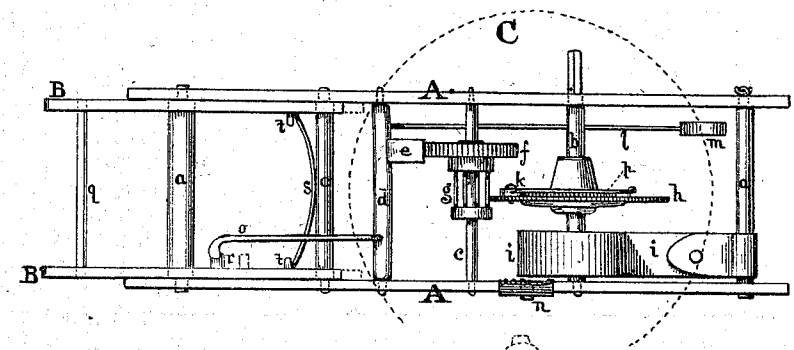

Fig. 2.

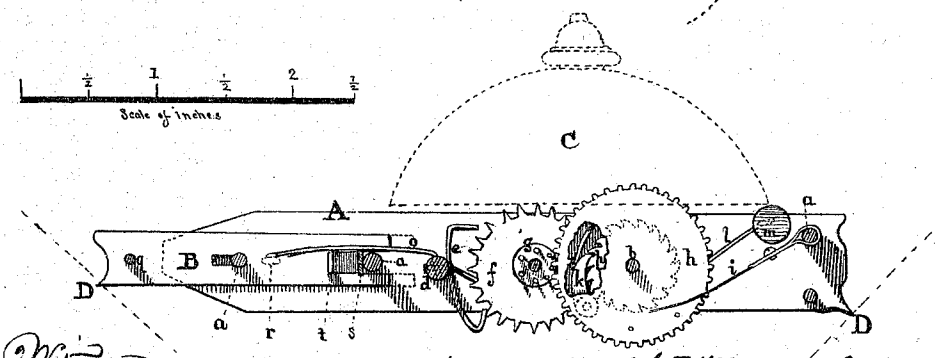

Fig. 3.

Witnesses
Charles Martin
Sam'l Mc. Morse.

John N. Webster, by Edmund Thurston his atty in fact
David Fey, by Edmund Thurston his atty in fact

UNITED STATES PATENT OFFICE.

JOHN N. WEBSTER AND DAVID FEY, OF PEORIA, ILLINOIS.

IMPROVEMENT IN PORTABLE BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **129,698**, dated July 23, 1872.

To all whom it may concern:

Be it known that we, JOHN N. WEBSTER and DAVID FEY, both of the city of Peoria, in the county of Peoria, in the State of Illinois, have invented a Portable Burglar-Alarm; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view; Fig. 2, a plan—the bell removed; Fig. 3, an ideal longitudinal sectional elevation, the spring being partially removed to show the wheels.

This invention consists of a small apparatus, (which travelers may carry about their persons,) which is placed at or near an inclination of forty-five degrees against the door of a room, resting its other end upon the floor, so that pressure of the door of the chamber inward against a sliding frame, which forms one end of the apparatus, releases the detent of the attached alarm, and rings or sounds the same, and which ceases when the pressure from the door is stopped, but resumes the alarm on the repetition of the inward pressure of said door.

A A represent two parallel plates of metal or other hard material, each about five inches long—one broad, and, if of metal, one-sixteenth of an inch thick—fastened together parallel, at a short distance asunder, by transverse braces *a a a*. A spring, *i*, is attached to one of the stays, the other end being coiled upon an axle, *b*, which terminates in a square end, which fits a key, by which the spring is wound. Upon this axle *b* is set a cog-wheel, *h*, which is held in place by a ratchet, *p*, and pawl *k* and a spring. This wheel engages with a lantern-wheel, *g*, or a similar wheel on the axle *c* of the cog-wheel *f*, in the teeth of which the detent *e* is engaged. This detent is set vertically against the wheel in a common mode on an axle, *d*, which carries an arm, *o*, which rests at its extremity against the detent *r* on the side of the sliding frame B. The latter consists of two parallel bars or plates, B B, united at their outer ends by a transverse brace, *q*, and sliding, respectively, against the inner sides of the plates A A upon the ends of the braces *a a*, which secure said plates. Slots are cut in each plate B B to allow the latter to be pressed far enough inward to carry the detent *r* beyond the alarm-detent *o*. A spring, *s*, having its convex side against one of the braces *a* near the axle *d*, and its extremities against the outer end of the inner slots of the plates B B, (see Fig. 2,) keeps the frame B B constantly extended beyond the end of the plates A A. A detent, *r*, on the inside of one of the plates B B holds the end of the alarm-rod *o*, and a hammer, *m*, is attached to the same axle which carries the latter rod *o*. The bell C or other alarm-sounder is supported above the apparatus over the hammer *m* by a standard, *n*, fixed to one of the plates A A.

The operation of this portable alarm for bed-room doors is as follows: The apparatus is placed in the angle formed by the junction of the closed door and the floor of the room, near the free end of the former, (see Fig. 1,) resting at one end on the floor, and inclining against the door at or about an angle of forty-five degrees, where it will maintain its position by means of its sharp corners D D. (See Fig. 3.) Now, on forcing of the door E inward toward the room the pressure drives the sliding frame B B into the apparatus until the detent *r* releases the arm *o* of the axle *d*, which latter and its attached detent *e* ceases to retain the wheel *f*, which is turned by the wheel *h* acting on the drum *g*, said wheel *h* being fixed on the same axle *b* which carries the spring *i*, so that the detent *e*, being now free to vibrate in the teeth of the wheel *f*, carries with it the axle *d* and its hammer-wire *l* and hammer *m*, and rings a peal of blows upon the bell C, which ceases when the pressure upon the door is stopped, but commences when the same pressure is applied as before. The mechanism of the alarm proper is similar to that of the alarm-clocks, and is the simplest form that can be advantageously used in this device.

What I claim as my invention is—

1. The burglar-alarm, sounded by pressure of a door or floor of a room against a retractile frame, B, connected with an alarm-detent, *o*, and an attached alarm mechanism, substantially as described, and for the purposes set forth.

2. The combination of the retractile frame B B, its detent *r*, and spring *s*, or equivalent, with an alarm-sounding apparatus, consisting of plates A A, arm *o*, axle *d*, detent *e*, wheel *f*, drum *g*, wheel *h*, ratchet *p k*, axle *b*, hammer *m*, and bell C or other equivalent, substantially as and for the purposes set forth.

In testimony that we claim the foregoing burglar-alarm we have hereunto set our hands this 6th day of June, A. D. 1872.

JOHN N. WEBSTER.
DAVID FEY.

Witnesses:
JOHN PETERMAN,
WM. JACK.