

S. H. MORRIS.

Improvement in Alarm Letter-Boxes.

No. 126,477.

Patented May 7, 1872.

Fig 1.

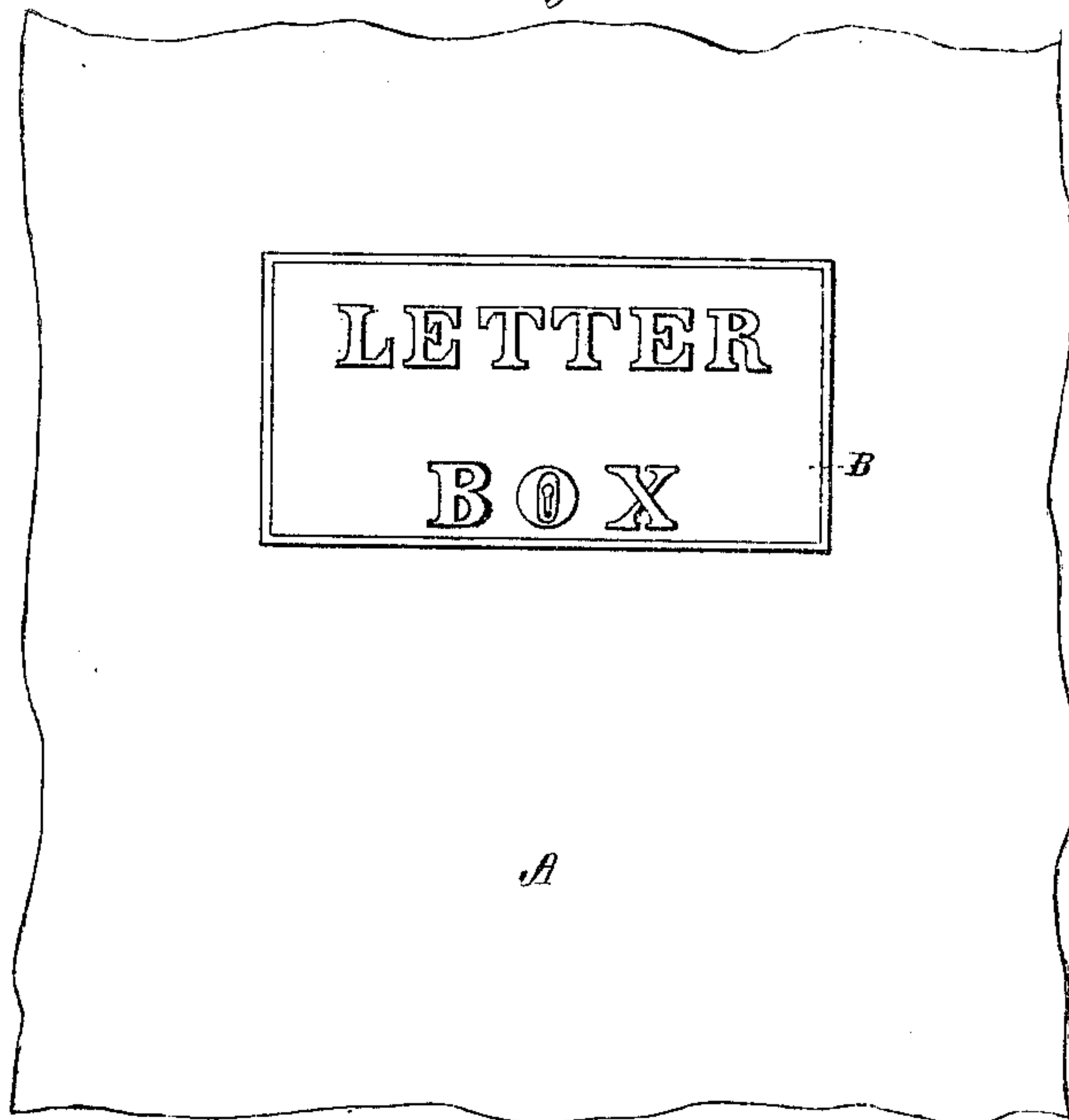
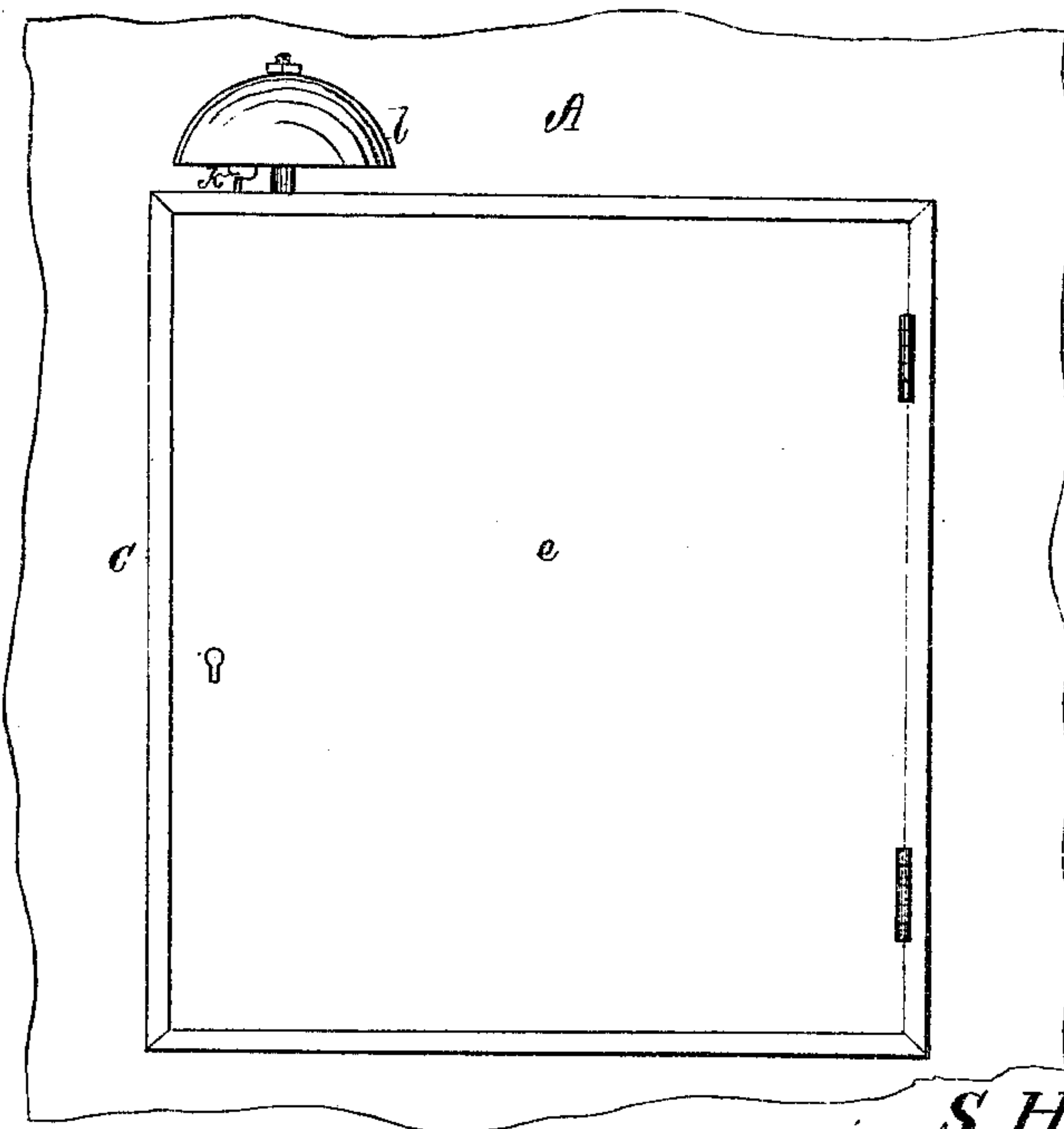


Fig 2.



Witnesses.

S. N. Piper

J. C. Snow

S. H. Morris.

by his attorney.

K. H. Eddy

S. H. MORRIS.

Improvement in Alarm Letter-Boxes.

No. 126,477.

Patented May 7, 1872.

Fig. 3.

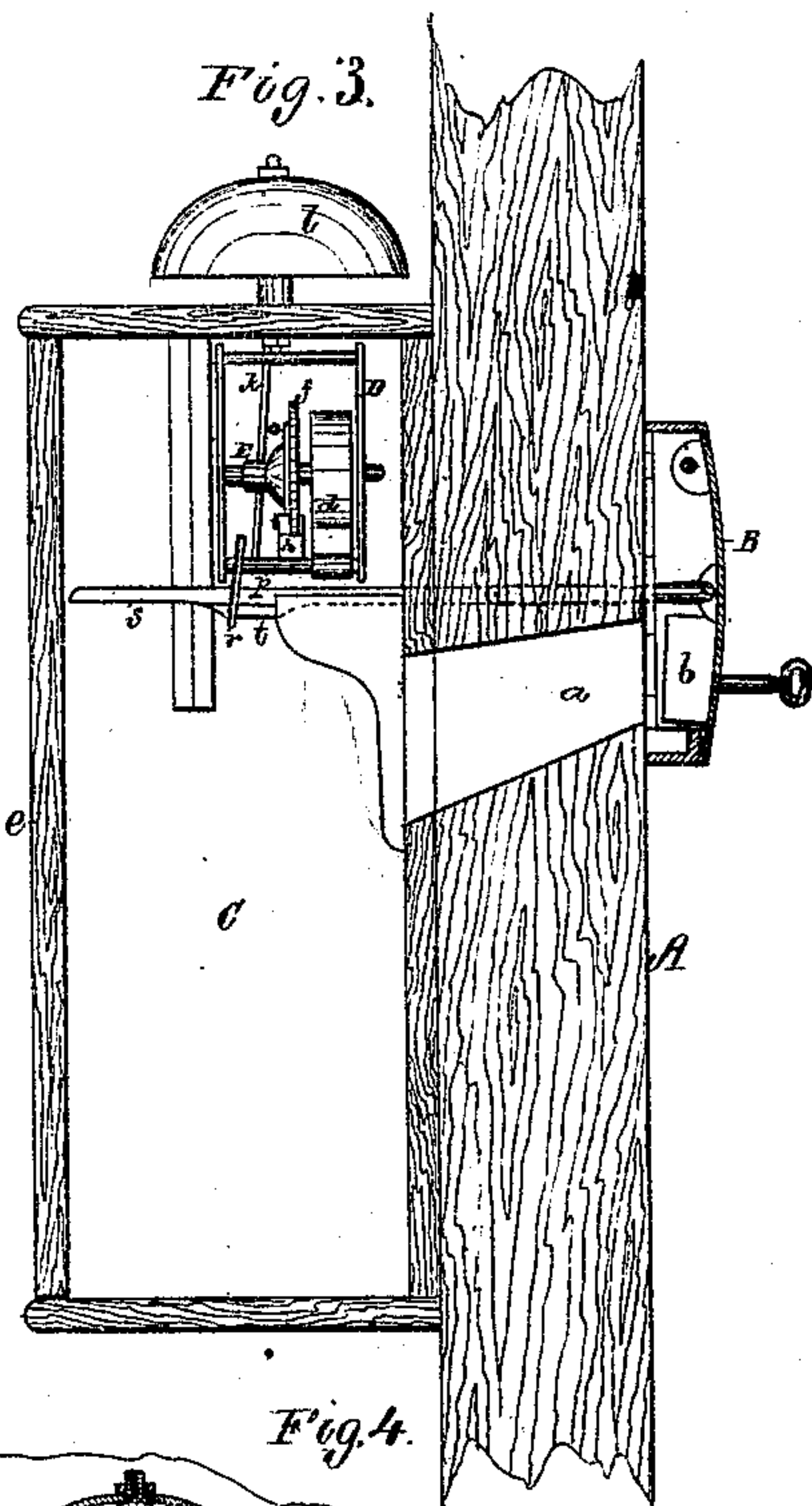
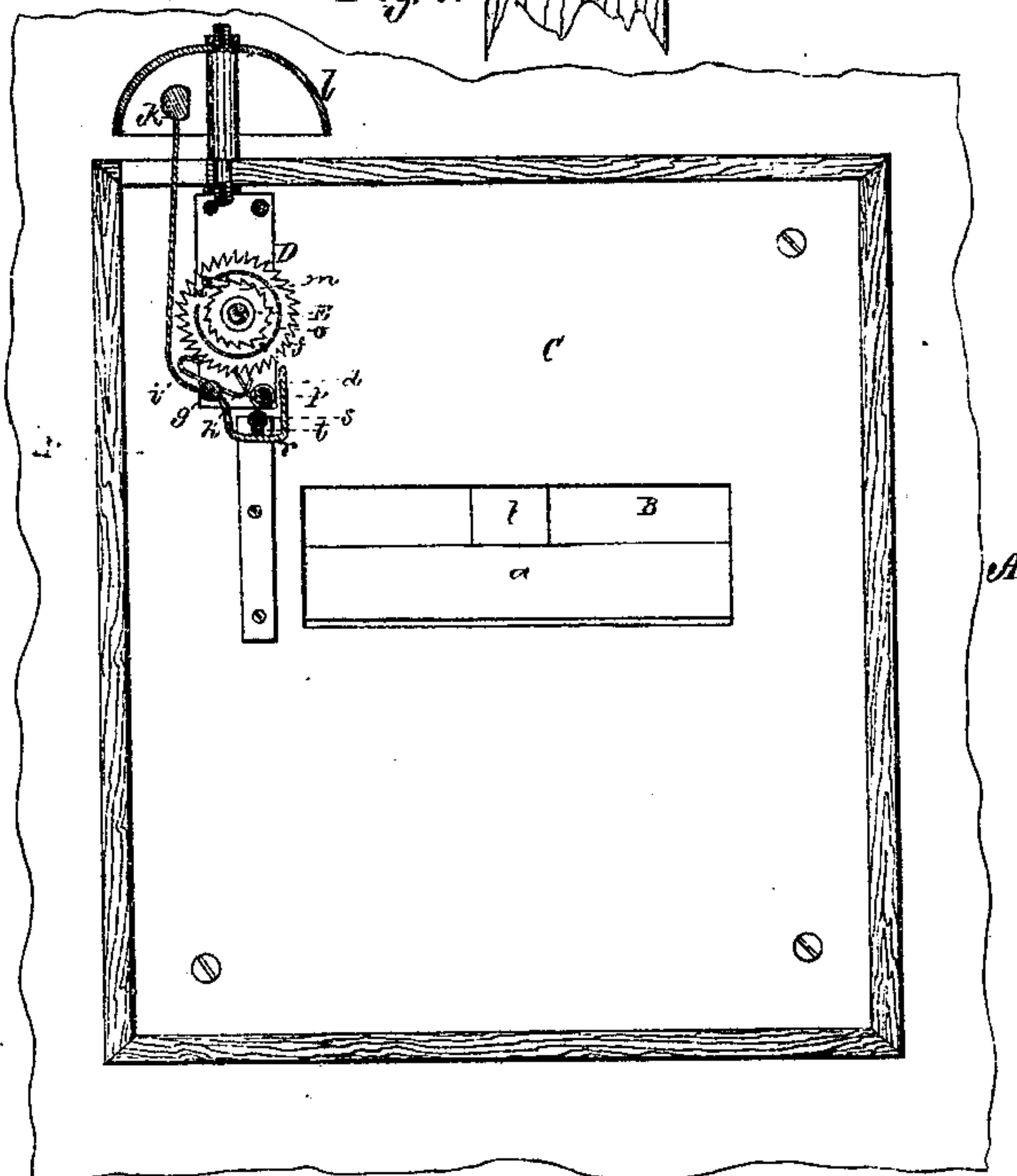


Fig. 4.



Witnesses.

S. N. Piper

J. R. Snow

S. H. Morris.

by his attorney.

R. H. Edw.

UNITED STATES PATENT OFFICE.

SAMUEL HENRY MORRIS, OF CHARLESTOWN, MASSACHUSETTS.

IMPROVEMENT IN ALARM LETTER-BOXES.

Specification forming part of Letters Patent No. 126,477, dated May 7, 1872.

To all persons to whom these presents may come:

Be it known that I, SAMUEL H. MORRIS, of Charlestown, of the county of Middlesex and State of Massachusetts, have invented a new and useful or Improved "Alarm Letter-Box;" and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a front view, Fig. 2 a rear elevation, and Fig. 3 a transverse section of it as applied to a door. Fig. 4 is a vertical section of the alarm taken through the hammer and bell.

My invention may be said to consist in a slide-rod and cam and a bent arm, combined and arranged with an alarm and a letter-receiving-mouth cover, or such and a letter-box, all being applied to a door or its substitute, and constructed substantially in manner and to operate as hereinafter explained; the object of the invention being to receive a letter and give notice to the occupant of a house of such reception.

In the drawing, A denotes a door or its substitute provided with an opening or mouth, *a*, having a cover or pivoted lid, B, which may be furnished with a lock, *b*, for locking it. The opening or mouth *a* may lead into a chamber or box, C, fastened or applied to the inner side of the door, such chamber being furnished with a cover, *e*, which may also be furnished with a lock. Arranged within the chamber or box C, or fixed against the door, is an alarm, D. The said alarm consists of a spiral spring, *d*, an arbor, E, a gear-wheel, *f*, a rocker shaft, *g*, a tripping-pawl, *h*, a catch-pawl, *i*, a hammer, *k*, and a bell, *l*, a ratchet, *m*, a pawl, *n*, and a spring, *o*. The spring *d* is fixed at its inner end to the arbor, and at its outer end to a frame, *p*, which supports the operative parts of the alarm. The gear-wheel *f* revolves freely on the arbor, which has the ratchet-wheel *m* fixed to it, the pawl *n* and its operative spring *o* being applied to the

wheel *f*. The hammer *k* extends from the rock-shaft *g*, from which there also projects the tripping-pawl *h* and the catch-pawl *i*. There also projects from the rock-shaft a bent arm, *r*, formed as shown, and there is extended through such bent arm a rod, *s*, provided with a cam, *t*, the said rod with its cam being guided so as to move rectilinearly or thereabout when moved endwise, the rod being pivoted to the cover B. When the cover is closed, the cam *t* will hold down the arm *r* so as to retain the catch-pawl *i* in engagement with the gear-wheel, and thereby hold the latter so as to prevent it from being revolved to operate the tripping-pawl *h*, and thereby cause the hammer to make repeated strokes on the bell. On raising or opening the cover B, the cam will be drawn forward out of action upon the bent arm. As a consequence the alarm will be set in operation, provided its spring be wound up, which may be done by a key applied to the arbor.

From the above it will be seen that each time the cover B may be raised by a postman to enable him to deposit a letter in the mouth of the letter-box the alarm will be sounded, and will continue to sound until the cover may be closed, thus giving notice to the inmates of the house of the deposit of a letter in the box or chamber. The key of the lock of the cover may be in the possession of the postman, while that of the lock of the letter-box may be held by the party to receive the letter.

What I claim as my invention is—

The slide-rod *s* and cam *t* and the bent arm *r*, combined and arranged with the alarm D and the letter-receiving-mouth cover B, or with said cover and the letter-box C, all being applied to a door or its substitute, substantially in manner and to operate as described.

SAMUEL HENRY MORRIS.

Witnesses:

R. H. EDDY,
J. R. SNOW.