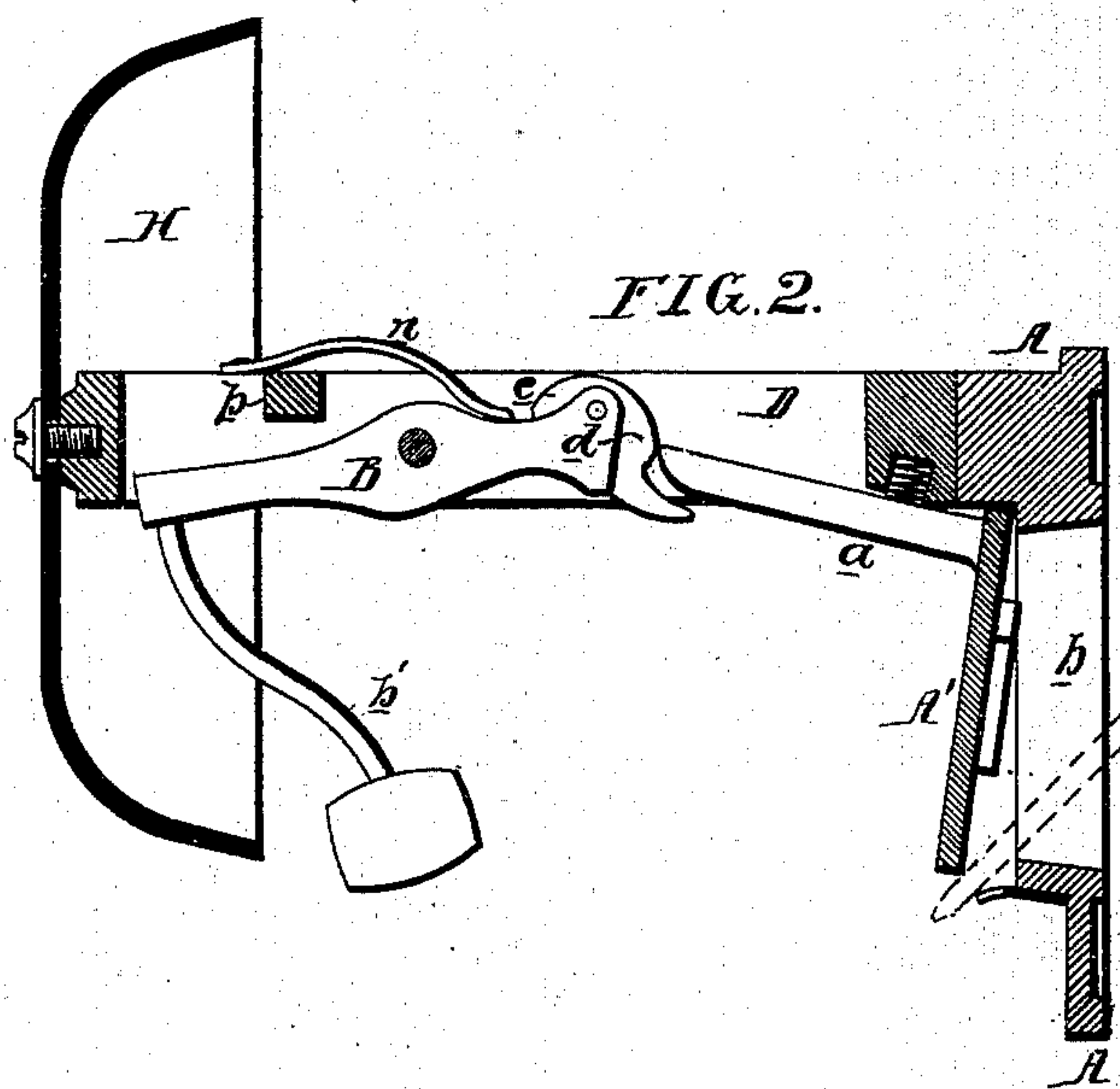
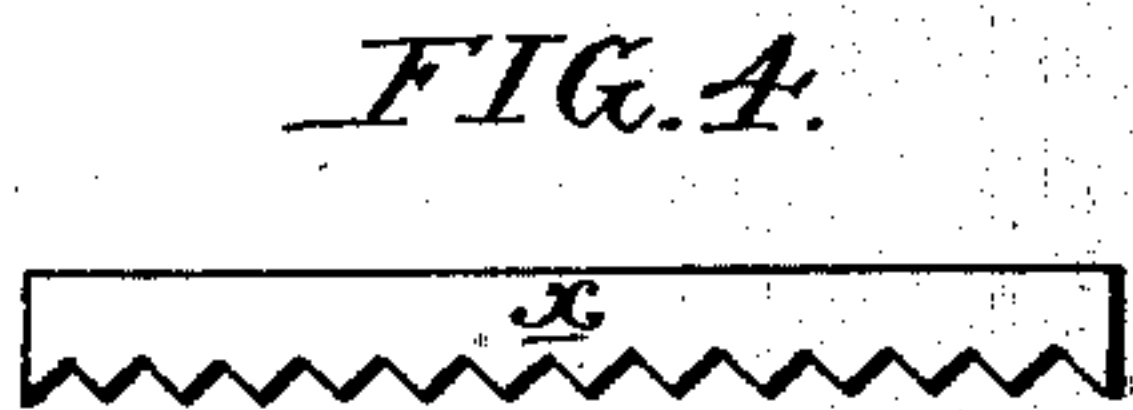
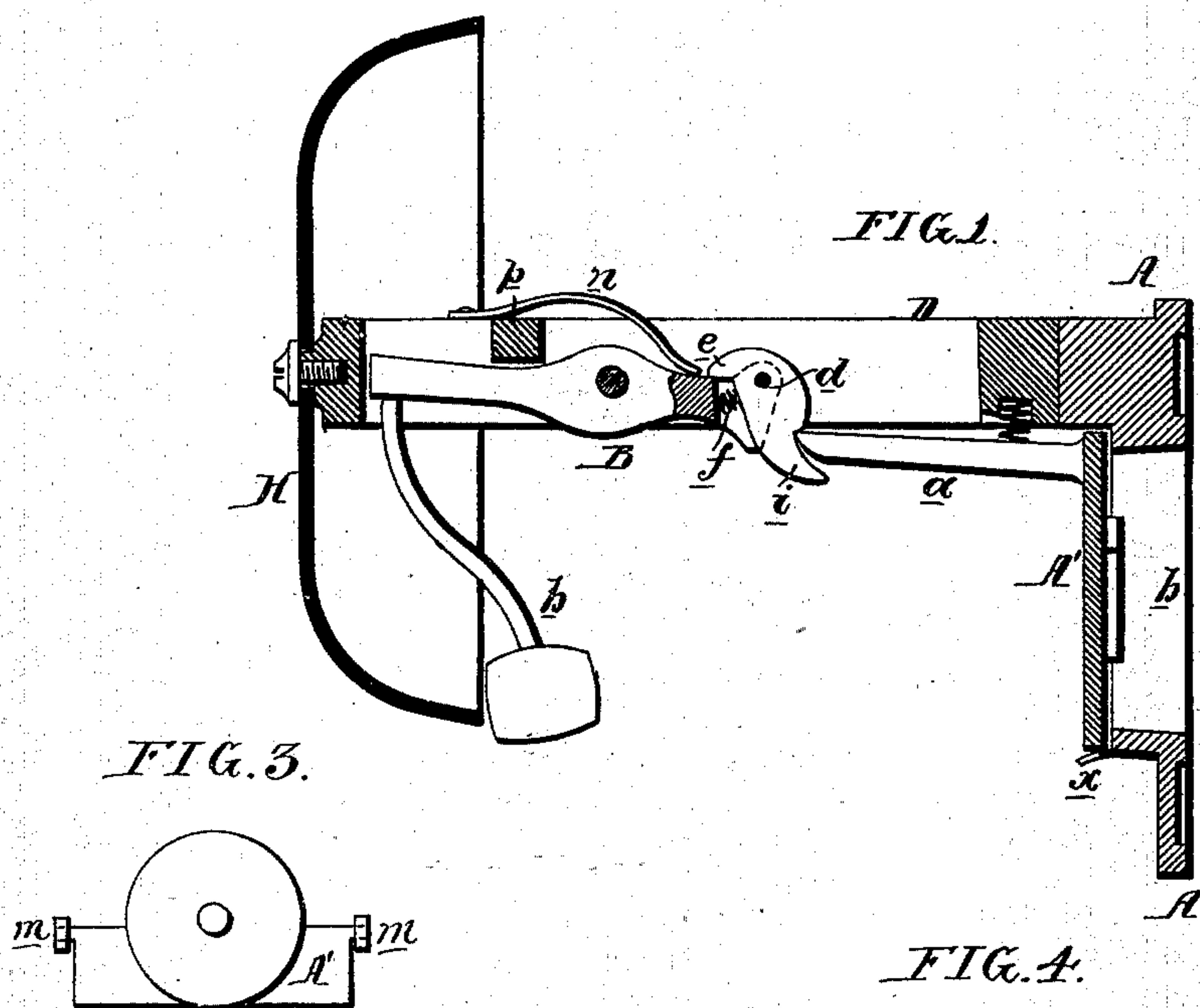


A. TAYLOR.
Letter-Box Alarms.

No. 139,833.

Patented June 10, 1873.



Witnesses, *Thomas McShane*
Harry Smith

Alfred Taylor
by his Attys.
Housman and Sons

UNITED STATES PATENT OFFICE.

ALFRED TAYLOR, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LETTER-BOX ALARMS.

Specification forming part of Letters Patent No. **139,833**, dated June 10, 1873; application filed March 13, 1873.

To all whom it may concern :

Be it known that I, ALFRED TAYLOR, of Brooklyn, New York, have invented an Improvement in Alarm Letter-Boxes, of which the following is a specification:

The object of my invention is to cause the hinged door of a letter-box to strike an alarm when it is opened for the introduction of a letter into the box, and to combine all the requisite mechanism in one apparatus, which can be readily attached to any door.

I attain these objects by the combination of an arm, *a*, on the hinged door *A'* of a letter-box with a spring-lever, *B*, carrying at one end a spring-dog, *d*, adapted to the said arm, and having at the other end a hammer, *b*, for striking the bell *H*, as shown in the sectional view, Fig. 1, of the accompanying drawing, the whole being carried by and forming a part of the door-plate *A*, attached to any door having a letter-box on the inside. This plate *A* has an elongated opening, *l*, for the passage of letters, and over this opening is hung, to lugs *m m*, at the back of the plate, as shown in the rear view, Fig. 2, a door, *A'*, which is closed by any suitable spring. To a slotted arm, *D*, secured to or forming a part of the plate *A*, is hung the lever *B*, carrying at its outer end a hammer, *b*, which, when not operated, is maintained in the position shown in Fig. 1, partly by the spring *n*, and partly by the cross-bar *p* of the arm *D*. To the inner arm of the lever *B* is hung a dog, *d*, a projection, *e*, on which is caused to bear on the lever by a small spiral or other spring, *f*, the dog having a recess, *i*, adapted to the end of the arm *a* or the door *A'*.

When the mechanism is at rest it is in the position shown in Fig. 1; but on forcing the door inward so as to introduce a letter through

the opening *l*, the arm *a*, acting on the dog, will raise the latter and with it the inner end of the lever *B*, until the latter arrives at the position shown in Fig. 2, when the lever will be suddenly relieved, and the hammer will strike the bell *H*, which is secured to the outer end of the stationary arm *D*. On releasing the door the arm *a*, lever *B*, and its spring-dog *d*, will recover their former positions, the dog yielding to the descending arm *a* until the end of the latter enters the notch of the dog.

It will be seen that the entire apparatus is self-contained, the plate *A*, bell, and mechanism for operating the same, being all connected together ready for sale as a complete instrument, which can at once be applied to any door above a letter-box secured to the same.

Below the opening *l* in the plate *A*, and at the rear of the latter, is a serrated plate, best observed in Fig. 4, the serrations of this plate preventing the retraction of a letter by an instrument which could be inserted into the box without ringing the bell.

I claim—

The combination, in one apparatus, of a door-plate, a door, *A'*, hinged to the plate, an arm, *D*, fixed to or forming part of the plate, a bell, *H*, secured to the arm, a hammer, *d*, and mechanism whereby the door, on being opened, is caused to operate the hammer; all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED TAYLOR.

Witnesses:

WM. A. STEEL,
HARRY SMITH.