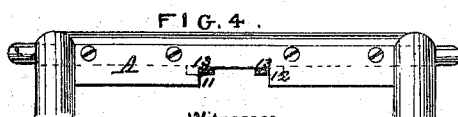
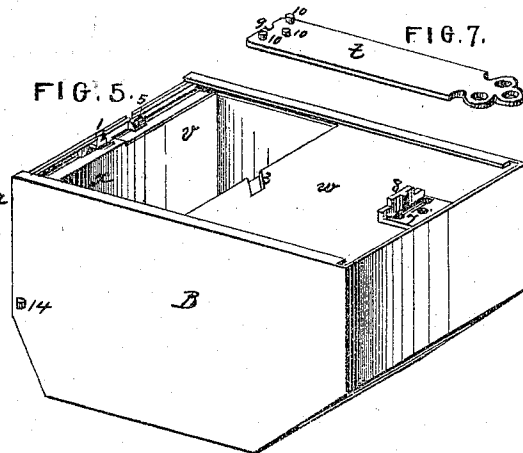
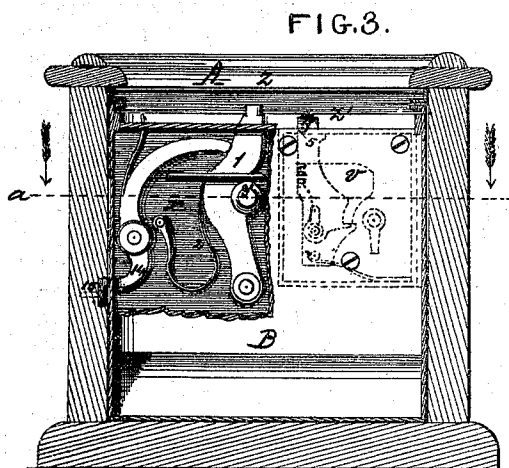
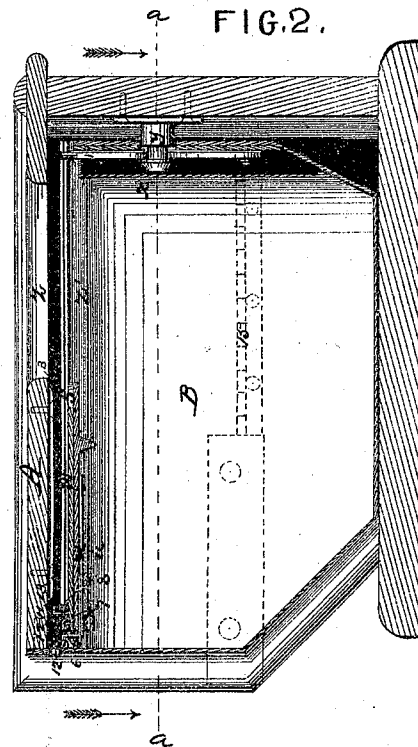
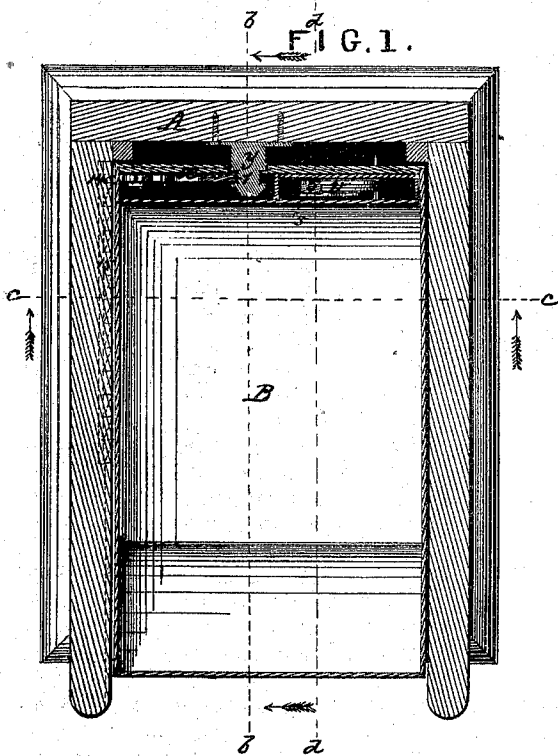


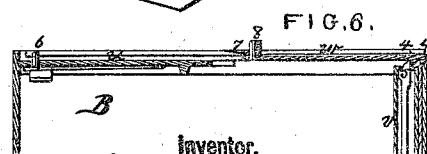
J. F. WINCHELL.
Fare-Boxes.

No. 140,985.

Patented July 15, 1873.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES F. WINCHELL, OF SPRINGFIELD, OHIO, ASSIGNOR, BY MESNE ASSIGNMENTS, TO JOHN B. SLAWSON, OF NEW YORK, N. Y.

IMPROVEMENT IN FARE-BOXES.

Specification forming part of Letters Patent No. **140,985**, dated July 15, 1873; application filed September 6, 1872.

To all whom it may concern:

Be it known that I, JAMES F. WINCHELL, of Springfield, in the county of Clarke and State of Ohio, have invented an Improvement in Fare-Boxes, of which the following is a specification:

The subject-matter of this invention is a safety drawer or receptacle for fare-boxes, for collecting fares in street-cars; and it is primarily intended for "The Champion Fare-Box." In stripping the box the drawer, previously closed and locked, is detached by the driver and delivered in the office, where it is unlocked and opened by the proper officer. The invention consists, first, in a drawer or fare-receptacle so constructed that it automatically locks or fastens itself in the fare-box when properly introduced, and which is released by sliding a lid over the opening in the top of the drawer, to close the same, the lid being locked in its closed position before it releases the drawer; second, in the construction of the locks above referred to; third, in certain means for holding the lid securely in open position and for preventing the operation of the same to release the drawer, except by the proper key; fourth, in certain means for preventing the removal of the key from the sliding lid during the act of unlocking the drawer from the case; fifth, in certain means to prevent the withdrawal of the drawer in open condition in case the same should willfully or accidentally be only partially inserted, so as not to be locked by the main catch.

Figure 1 represents a horizontal section of the base of a fare-box illustrating the invention. The plane of the section is represented by the lines *a a*, Figs. 2 and 3. Fig. 2 represents a vertical longitudinal section on the line *b*, Fig. 1; Fig. 3, a vertical transverse section on the line *c*, Fig. 1; Fig. 4, a partial front view; Fig. 5, a perspective view of the drawer open and detached; Fig. 6, a vertical longitudinal section on the line *d* of the fare-box as closed; Fig. 7, a perspective view of the key employed to close and detach the drawer.

In carrying out this invention, a case, *A*, is employed, of any suitable preferred shape,

furnishing a recess with parallel sides to receive a drawer, *B*, and an aperture, *Z*, to admit the fares. This is attached beneath the body of a fare-box, in lieu of other final receptacle. The fare-box is preferably the one known as "The Champion Fare-Box." For securing the drawer in the case a stud-catch, *y*, with a beveled end and one or more circumferential grooves or notches are attached to the back of the case, and a lever-bolt, *1*, projected by spring *2*, is arranged in a lock, *x*, at the inner end of the drawer, to automatically engage with the same.

For closing and releasing the drawer when it is to be detached to strip the box, the drawer is furnished with a sliding lid, *w*, adapted to cover its orifice *z'*, and constructed with an inclined slot, *3*, or its equivalent, to engage with the projecting end of the lever-bolt *1* of the lock *x*, to retract the same, and with one or more beveled studs, *4*, to automatically engage with the spring-bolt *5* of a tumbler-lock, *v*, which secures the lid in its closed position. The drawer is thus closed and locked in the act of detaching it, the drawer-retaining lock *x* being accessible only by means of the self-locking lid, except by drilling through the case, which may readily be prevented, and if accomplished, could not be concealed. The drawer-lid *w* is preferably furnished with a plurality of catches, *4*, in order to insure the locking of the same before the actuation of the drawer-retaining lock *x*, and, subsequently, in its most projected position. To secure the drawer-lid in its open position, and to prevent the operation of the same to release the drawer except by the proper key, the permanent top *u* of the drawer is furnished with one or more vertical spring-bolts, *6*; and the sliding lid *w* is furnished with a corresponding perforated catch-plate, *7*, with inclined face to depress the bolts, and a gage-stop, *8*, to facilitate the application of the proper key *t*, Fig. 7. This key is constructed with a gage-notch, *9*, in its end, to engage with the abutment *8*, and with pins *10* in its under side, corresponding with the bolts *6*, by which to depress the same, so as to release the lid and to engage with the catch *7*. The said key is

otherwise a flat bar of sufficient length to slide the drawer-lid back the necessary distance. When the drawer is released the key serves as a handle by which to pull the same out. To prevent the accidental or willful removal of the key from the lid during the act of unlocking the drawer, the passage 11 for the same, extending from the entrance-aperture 12, is contracted by metallic strips 13, or their equivalent, so that the key may not be lifted out of mesh with the catch 7 until the locking, releasing, and withdrawing operations are entirely completed.

The locking and detaching key *t* may be carried by the driver, who, at the end of the trip, is thus enabled to strip the box and deliver the contents secured in the locked drawer to the proper officer, who, by means of the key of the lid-lock *v*, opens the drawer and empties the same. The drawer is then returned to the box in open condition.

With the securities above described there would be a possibility of a partial insertion of the drawer, so that it should not engage with the retaining-catch *y*, and, consequently, the open drawer might be subsequently withdrawn and its contents abstracted. This failure to secure the drawer might be accidental. To provide for this and prevent the withdrawal of the drawer from any point without first sliding back and locking the lid, as in detaching the drawer from the main catch, a spring bolt or catch, 14, is applied to one or each side of the drawer, (or in its bottom or top, or both,) and a corresponding ratchet-rack, 15, or one or more notches, is arranged in the case for the same to engage with. This bolt, in the illustration, is pivoted within the retaining-lock *x* and operated through the medium of the lever-bolt 1.

The drawer is preferably made of metal. The case may be either wooden or metallic.

The details of construction do not require any particular description, and are variable.

The following is claimed as new:

1. A drawer for fare-boxes, having an automatic lock, *x*, at its inner end for securing the same in its case, and a sliding lid, *w*, for closing the opening in the top of the drawer, and constituting the means or medium for op-

erating the drawer-retaining lock *x* to release the drawer, and a lid-lock, *v*, for securing the lid prior to the release of the drawer, so that the drawer is necessarily closed and locked in the act of releasing it, substantially as herein shown and described.

2. The combination of the stud-catch *y* with one or more circumferential grooves or notches and the lever-bolt 1 with its spring 2, constructed and arranged substantially as shown, for the purpose specified.

3. The catches 4, (two or more,) in combination with the drawer-lid *w* and lock *v* and the drawer-retaining lock *x*, for the purpose set forth.

4. The spring-bolts 6 (one or more) and catch 7, arranged and operating substantially as described, in combination with the drawer-lid *w*, for securing the lid in open position and preventing its operation, except by the proper key *t*, as set forth.

5. The spring bolt or catch 14 and ratchet-rack 15, or one or more notches, arranged substantially as described, in combination with a fare-drawer, with sliding lid closed and locked, in the act of operating such bolt or catch, for the purpose set forth.

6. A fare-box provided with a drawer, when said drawer fastens itself in the box in such a manner as to be released only by the movement of a sliding lid, substantially as herein described.

7. A fare-box provided with a drawer which locks itself in the case by means of sliding it in place, and a sliding lid, substantially as herein described, when said lid is moved back over the opening of the drawer and locked, and the drawer unlocked from the case by the movements of said sliding top effected by the action of one key.

8. In combination with a fare-box drawer having a sliding lid for closing and subsequently detaching the same, a key, *t*, constructed substantially as herein described, for releasing and sliding the drawer-lid and withdrawing the closed receptacle.

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