

2 Sheets—Sheet 1.

No. 486,119.

Patented Nov. 15, 1892.

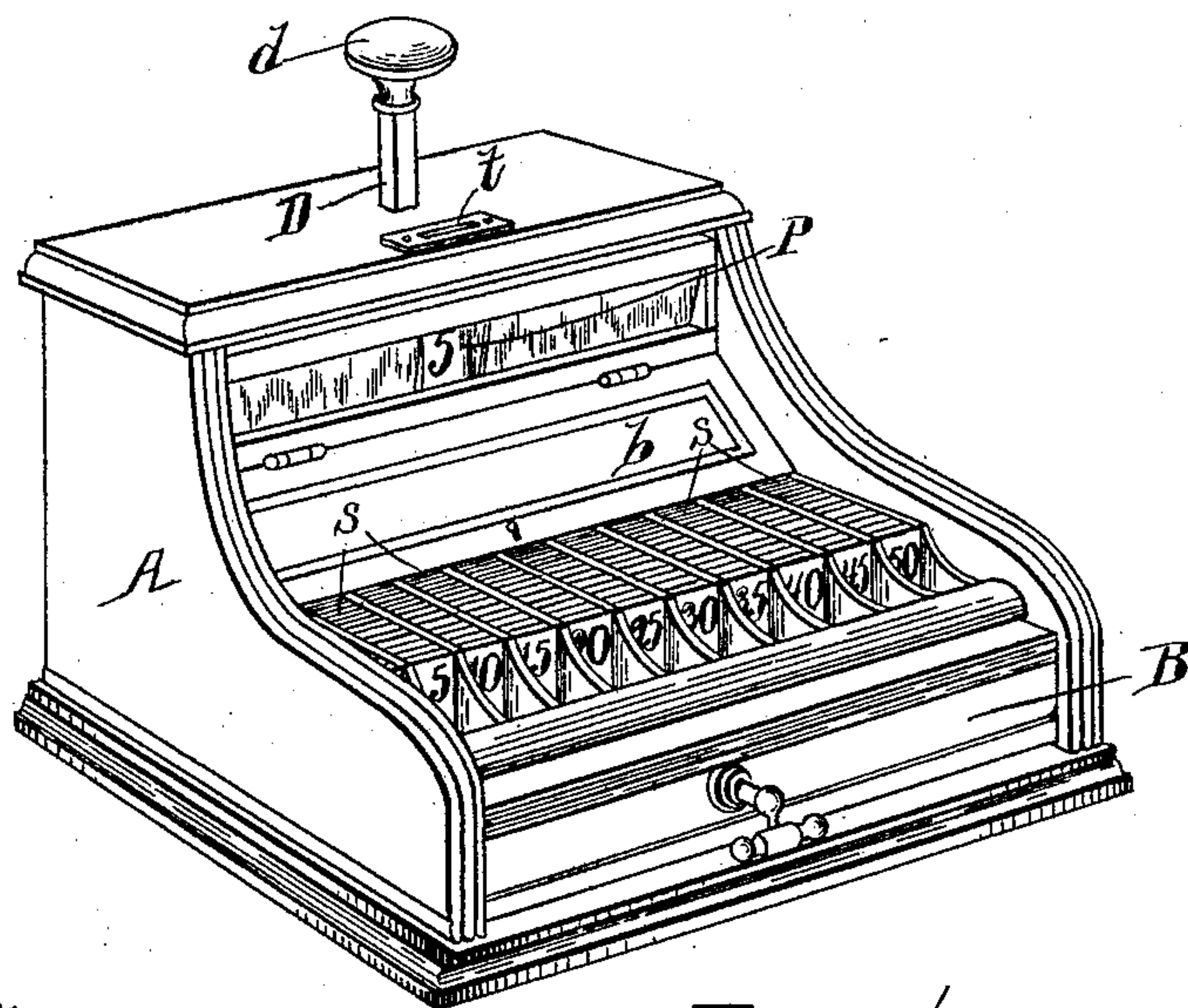
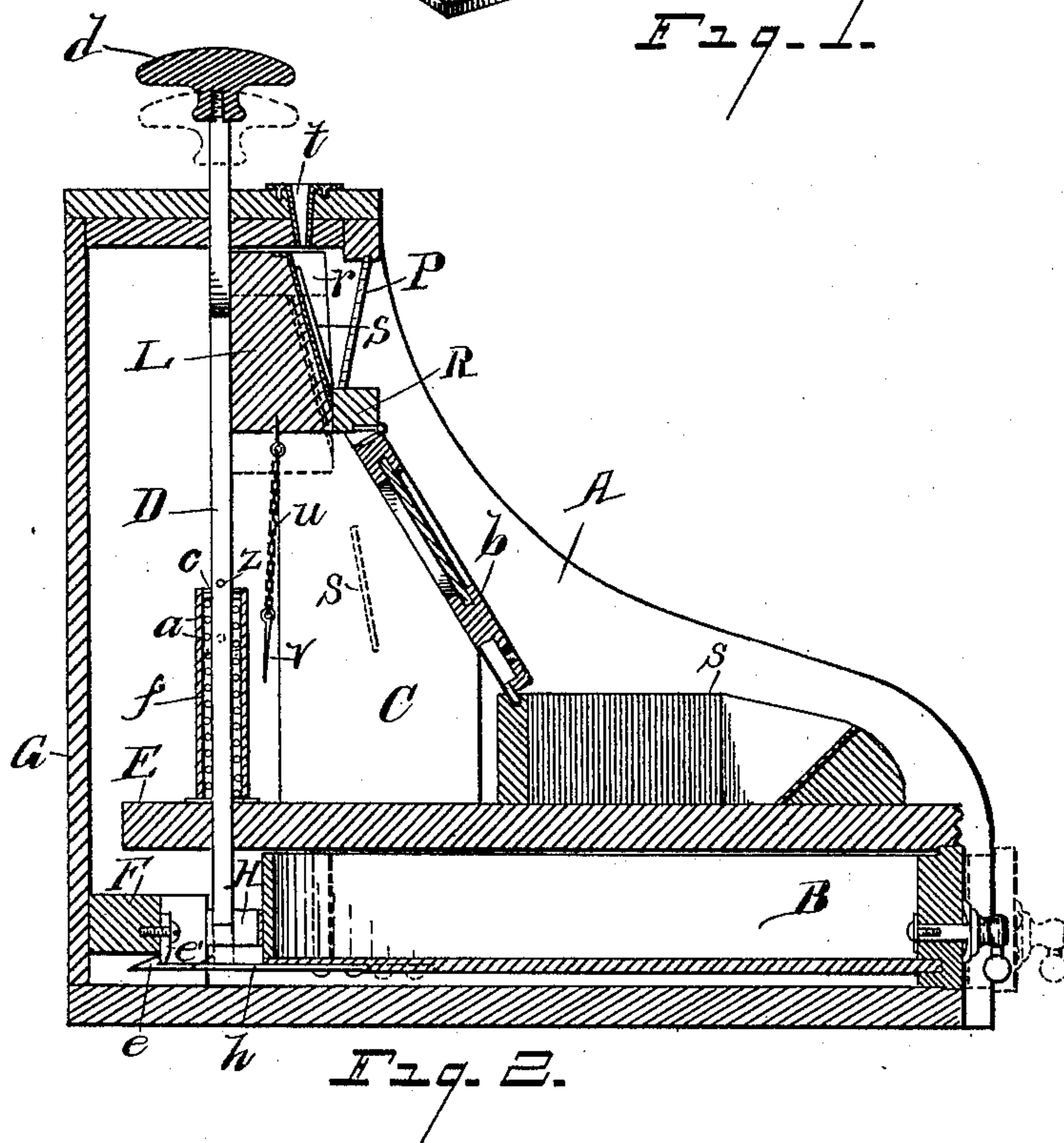


Fig. 1.



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(No Model.)

2 Sheets—Sheet 2.

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CASH REGISTER AND INDICATOR.

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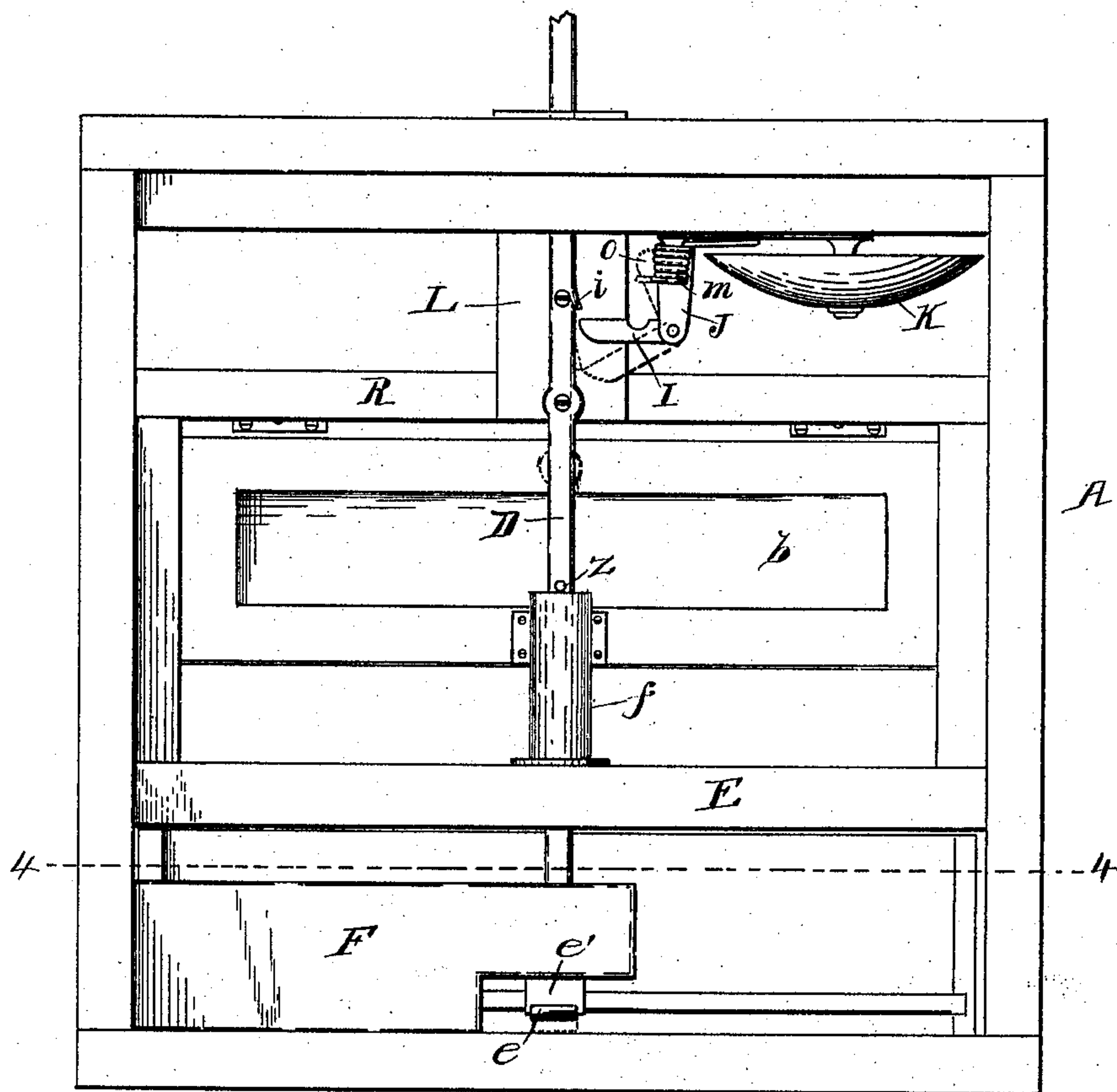


Fig. 3.

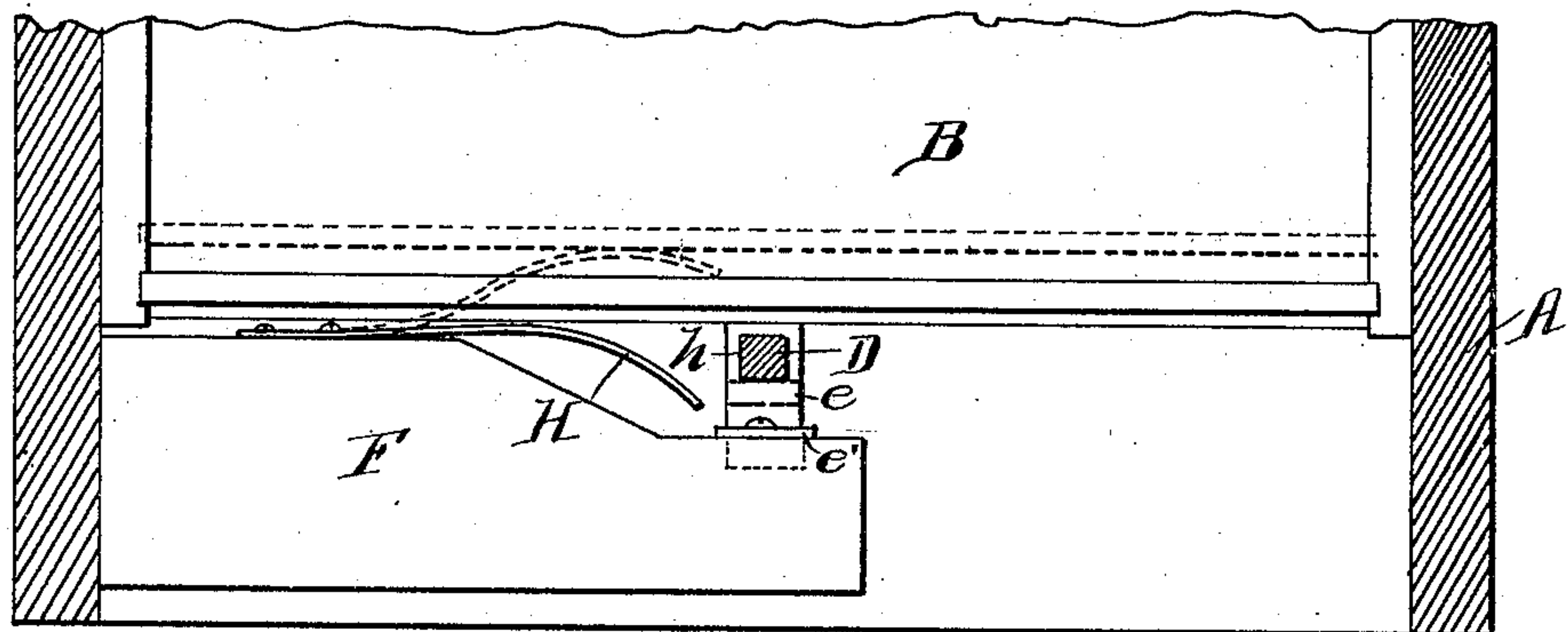


Fig. 4.

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UNITED STATES PATENT OFFICE.

PETER H. McEWAN, OF WINDSOR, CANADA, ASSIGNOR OF ONE-FOURTH TO
FRANK M. ALLMAN, OF DETROIT, MICHIGAN.

CASH REGISTER AND INDICATOR.

SPECIFICATION forming part of Letters Patent No. 486,119, dated November 15, 1892.

Application filed December 24, 1891. Serial No. 416,084. (No model.)

To all whom it may concern:

Be it known that I, PETER H. McEWAN, a citizen of Canada, residing at Windsor, in the Province of Ontario, Canada, have invented certain new and useful Improvements in a Cash Register and Indicator; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in cash registers and indicators; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out particularly in the claims.

The objects of the invention are to provide simple, cheap, and effective means for registering and indicating the amount of each sale made, and a further provision whereby the spring-expelled cash-drawer is prevented being thrown from the case and an alarm-bell is rung before said drawer may be opened. These objects are attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of this improved device. Fig. 2 is an enlarged vertical transverse section through the same. Fig. 3 is an enlarged rear elevation with the back of the case removed. Fig. 4 is an enlarged horizontal section through a portion of the case on dotted line 4 4 of Fig. 3.

Referring to the letters of reference, A designates the inclosing case, which may be made in any suitable form and of any material desired and is provided in the base thereof with a cash-drawer B, above which is a check or ticket receptacle C, to which access is afforded through the hinged lid or door *b* in the front of the case.

D designates a vertical rod or plunger located within the case and extending through the top thereof, carrying on its upper end a knob *d*. Encircling the plunger D within the case is a coiled spring *a*, the lower end of

which rests upon the horizontal partition E of the case-frame, through which the plunger passes, the upper end of said spring being secured to the plunger by means of a pin *c* passing through said plunger and engaging said spring, which is environed by an annular sleeve *f*, that confines it in place and within which said pin reciprocates as the plunger is actuated, the office of said spring *a* being to normally hold the plunger in its raised position and to return it after being depressed, which construction is clearly shown in Fig. 2. Attached to the bottom of the drawer B and extending rearwardly is a spring *h*, having a catch *e* on its near end that is adapted to engage the lower edge of the plate *e'*, attached to the block F, secured to the back G of the case, and retain said drawer in its closed or locked position against the action of the curved spring H, (shown in Figs. 2 and 4,) that is also attached to the block F and bears against the rear end of the drawer B and which expels said drawer when the plunger D is depressed sufficiently to cause its lower end to strike and disengage the spring-catch *h* from the plate *e'*, thereby unlocking the drawer, when it will be expelled by the spring H. When the plunger is depressed to disengage the spring-catch *h* and unlock the drawer, the spring H in expelling said drawer acts so quickly that before the plunger rises out of the path of the catch *e* the lower end of said plunger is engaged by said catch, thereby arresting the drawer when partially expelled, as shown by dotted lines in Figs. 2 and 4, and preventing the accidental ejection of said drawer from the case.

On referring to Fig. 3 it will be seen that the plunger D is provided with a lug *i*, adapted to engage one arm of the bell-crank I, pivoted to the bracket J, the other arm of said crank being engaged by a spring *m* and having a hammer *o*, that is thrown against the bell K by the action of said spring. When the plunger is depressed, the lug *i*, engaging the horizontal arm of the bell-crank, carries it downward, drawing upon the spring *m*, which, when said arm slips past said lug, throws the hammer *o* against the bell. The arrangement being such that the bell-crank

will be tripped to ring the bell before the plunger descends sufficiently to disengage the spring-catch *h* and unlock the cash-drawer, by which means the bell must be rung in every instance before said drawer can be opened.

The front of the case is provided with a number of divisions that contain checks or tickets *s*, having fixed characters on one face, representing various amounts of value and on the reverse face a blackboard or other suitably-prepared surface, on which may be written the amount of the sale when not represented by any of the fixed numbers on the tickets. Through the top of the case is a slot *t*, adapted to receive the tickets *s*, said slot communicating with an inclined recess *r* in the face of the block *L*, attached to the plunger *D* and traveling therewith. Said recess receives the tickets *s*, deposited in the slot *t*, in which they are exposed to view through the transparent front *P* of the case, as shown in Fig. 1. The lower edge of the ticket when lying in the recess *r* rests against the inner face of the cross-rail *R* of the case, against which the block *L* bears when the plunger *D* is raised, as shown in Fig. 1, in which position when the plunger is depressed to unlock the cash-drawer the block *L* will be carried downward by said plunger, thereby opening the bottom of the recess *r* therein and discharging the ticket from said recess into the receptacle *C*, as shown by dotted lines in Fig. 2, thus depositing in receptacle *C*, which is securely locked, a ticket indicating the amount of each sale, which in the aggregate must correspond with the amount of cash in the drawer.

In practice when a sale has been made the plunger *D* is depressed to open the cash-drawer and deposit the ticket of the previous sale. A ticket representing the amount of the last sale is then placed in the slot *t*, when it drops into the recess *r* and remains exposed through the front of the case until a subsequent sale is made and the device is again operated. Thus each ticket in turn is discharged into the receptacle *C* after displaying the amount of the corresponding purchase, the ticket indicating the amount of the last sale being always in view.

On referring to Fig. 2 it will be seen that to the bottom of the block *L* is attached a small chain *u*, carrying at its free end a pin *v*, that is adapted to be inserted in an aperture *z*, passing through the plunger *D*, just above the top of the sleeve *f*, when said plunger is in its raised position, whereby when said pin is inserted in said aperture the plunger cannot be depressed, as the pin extends across the top of said sleeve, thereby effectually locking the cash-drawer and preventing any tampering with the apparatus. Access to the locking-pin *v* is effected through the door *b* in

the front of the case, which is provided with a secure lock.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent is—

1. In a device for the purpose set forth, the combination of the case, the drawer therein, the rearwardly-extending spring attached to said drawer and having a catch at its free end, the expelling-spring bearing against the rear end of said drawer, and the vertically-reciprocal plunger for depressing the spring-catch to unlock said drawer, the lower end of said plunger engaging said spring between its catch and the point of attachment to the drawer and extending into the path of the catch of said spring is engaged thereby to arrest the throw of said drawer when unlocked by the action of said plunger.

2. In a cash register and indicator, the combination of the case having a ticket-receiving slot therein, the reciprocal plunger in said case, said plunger having a block attached thereto, provided in its front face with a recess that registers with the slot in the case, the cross-rail against which the block rests and which forms the bottom of the recess therein when the plunger is raised, said case having a transparent front opposite said recess, the spring for restoring said plunger after being depressed, and means for locking said plunger so that it cannot be actuated, substantially as specified.

3. In a cash register and indicator, the combination of the case, the vertically-reciprocal plunger in said case, the sale-ticket, the case having a slot to receive said ticket adjacent to said plunger, said plunger carrying a block provided with a recess that receives the ticket from said slot, the cross-rail in the case that retains the ticket in said slot when the plunger is raised, but from which it is discharged as the plunger is depressed, the drawer to receive said ticket, and mechanism for unlocking and expelling said drawer as the plunger is actuated.

4. In a cash register and indicator, the combination of the case having a ticket-receiving slot therein, the reciprocal plunger in said case, said plunger having a block attached thereto, provided in its front face with an inclined recess, and the cross-rail in the case, against which said block rests when the plunger is raised and which forms the bottom of said recess, whereby as the plunger is depressed said recess is opened to discharge the ticket.

In testimony whereof I affix my signature in presence of two witnesses.

PETER H. McEWAN.

Witnesses:

E. S. WHEELER,

B. F. WHEELER.