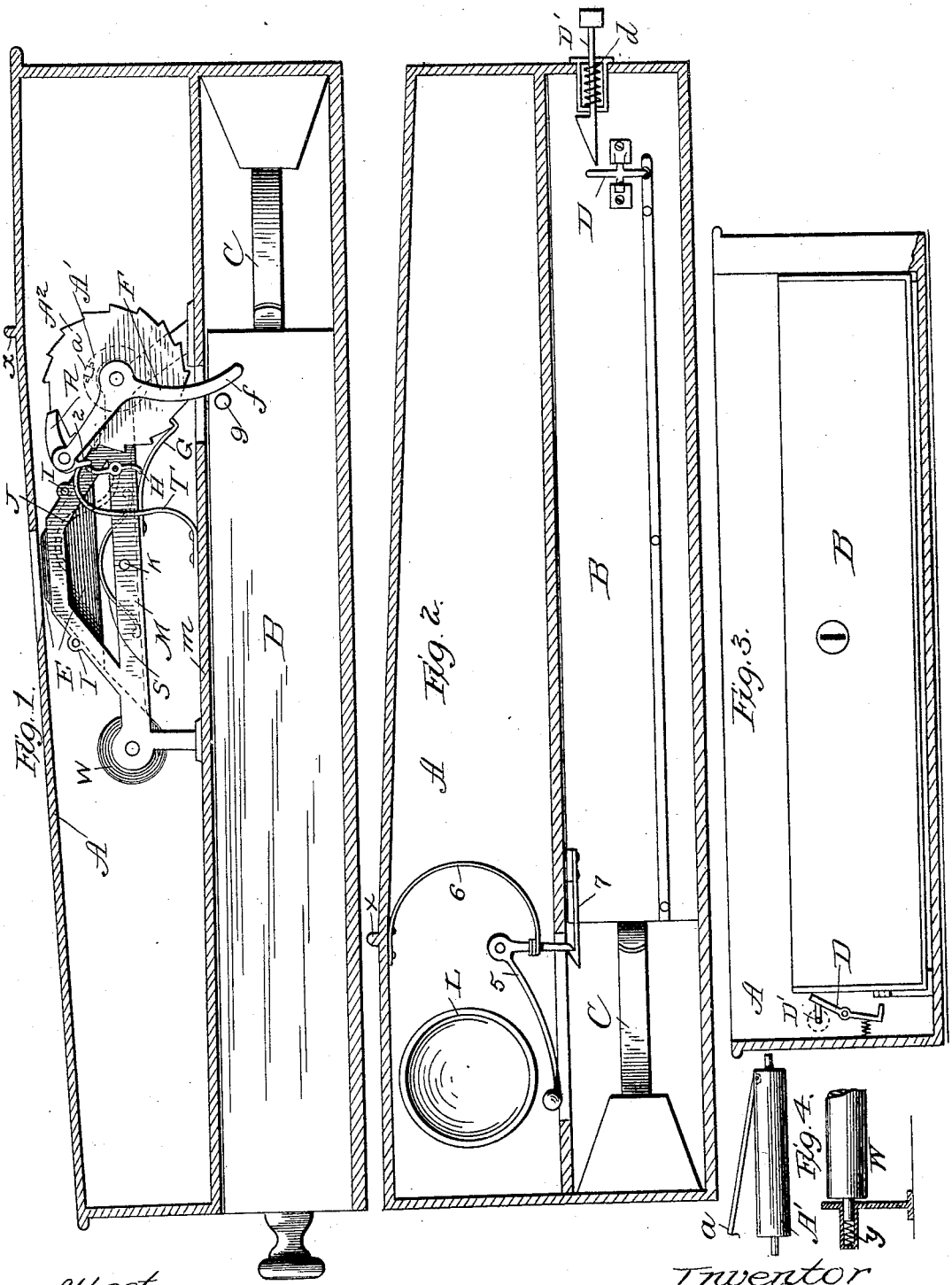
(No Model.)

W. H. THOMPSON.

CASH RECORDER.

No. 454,089. Patented June 16, 1891.



Attest
Henry E. Cooper
J. H. Graham

Inventor
Wm H. Thompson
by Wallen Donaldson & Co
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM H. THOMPSON, OF EAST STROUDSBURG, PENNSYLVANIA.

CASH-RECORDER.

SPECIFICATION forming part of Letters Patent No. 454,089, dated June 16, 1891.

Application filed February 10, 1891. Serial No. 380,932. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. THOMPSON, a citizen of the United States of America, residing at East Stroudsburg, in the county of Monroe and State of Pennsylvania, have invented certain new and useful Improvements in Cash-Recorders, of which the following is a specification.

The object of my invention is to provide a machine simple in construction and operation which will be economical to manufacture, enabling them to be placed on the market at comparatively small cost.

It is further the object of my invention to provide a machine with a roll of paper or movable tablet which will be operated successively when the drawer is operated in order to present small areas of the paper in succession to an opening in the case to receive the memorandum of the sale.

The invention consists in various details of construction hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a longitudinal vertical section through the machine, some of the parts being shown in side elevation. Fig. 2 is a similar view from the opposite side, showing the bell mechanism and the catch for holding the drawer. Fig. 3 is a transverse section showing the drawer-catch. Fig. 4 represents the rollers in detail.

In the drawings, the machine-frame is shown at A, and the drawer at B, these being of any suitable construction. The drawer is forced outward when released by a spring C, of ordinary arrangement, pressing against its rear end. It is held in against said spring-pressure by a spring-catch D, pivoted within the casing, with its end adapted to engage the drawer and hold the same under normal condition. For operating the catch to release the drawer a push-rod D′ is used, having a button on its outer end and a wedge-shaped inner part. It is held normally in its inoperative position by a spring *d*, and in order to operate the catch the push-rod is given a quarter-turn and then pressed inwardly, so that the wedge pressing against the upper arm of the spring-catch presses it aside and thus disengages the lower end from the drawer, whereupon the drawer springs outward.

The paper for receiving the memorandum of the sales is wound upon a roller W, from which it extends up over a tablet-block E, the upper surface of which is immediately beneath the opening in the case, and from thence the paper extends to a receiving-roll A′, on the shaft of which is a ratchet-wheel A^2, through which the paper is drawn beneath the opening step by step. These rollers are journaled in frames M on each side of the machine and supported on a partition-piece *m*, extending through the casing. The frames are braced and held together by transverse rods I I K, the rods I lying above the slanting or beveled sides of the tablet-block and over the paper. The tablet-block is supported yieldingly and is pressed up by springs S, bearing on its under side and held by the frames M. This arrangement applies the necessary tension to the paper in passing between the rods I and the spring-pressed tablet-block and prevents looseness or displacement of the paper when the memorandum is made. The frames M have their central portions formed to correspond with the shape of tablet-block E, which extend up along the ends of said block. The ratchet-wheel is engaged by a pawl R, pivoted to a lever F, which in turn is pivoted on the shaft of the roller A′ and ratchet. It has an arm *f* extending down into the path of a suitable part of the drawer, as the projection 9, which strikes against its front edge and throws the pawl back, when the drawer is moved within the case. This moves and holds the lever F against the pressure of the spring T, and it will be readily seen that when the drawer is released the projection 9 no longer resists the movement of the lever F and which under the action of the spring turns and moves the pawl, so as to turn the ratchet-wheel and move the paper one step for a new memorandum. A holding-pawl G engages with the ratchet and holds it against backward movement.

In order that the drawer may be sprung out without operating the winding mechanism, a lever J is used. (Shown in dotted lines.)

This is connected to a finger H, which bears on a tail-piece 2 of the pawl and serves to disengage said pawl from the ratchet when desired. The paper is clamped to the roller A′ by a bar *a*, pivoted thereto and fitting in a groove, being held by a suitable catch.

It will be seen that the entire working apparatus is beneath the top of the machine, which being clear is used as an ordinary desk, for which it is slightly inclined, and has a rib *x* to retain pens or pencils.

The bell mechanism consists of a bell L within the case, a pivoted hammer 5, a spring 6, engaging the hammer-arm, and a spring-catch 7, hooking under said arm, whereby when the drawer is sprung out the hammer is drawn back, compressing the spring, and then when released the hammer flies forward and rings the bell.

The roller W is under tensional restraint by a spring *y*, which bears against one of its journals.

I claim as my invention—

1. In a cash-recorder, and in combination, the winding mechanisms, the frames M, having transverse stationary rods I, the tablet held within the frame, having a flat top adjacent to the opening in the casing and beveled sides over which the rods I extend, and the spring for forcing the tablet with the paper upward into normal contact with the rods, substantially as described.

2. In a cash-recorder, the paper, the tablet, the pawl and ratchet, a lever F, carrying the said pawl at its upper end and having a downward extension *f*, the drawer having a projection bearing on the front edge of said extension when the drawer is closed, and a spring engaging the lever and operating to move it when the drawer projection is removed upon the opening of the drawer, substantially as described.

3. In combination, in a cash-recorder, with the drawer, a catch therefor, and a releasing means consisting of a sliding push-bar having a wedge-shaped end to bear against the catch when in a horizontal position, and a spring about said bar to hold the same in normal position with the wedge vertical and out of line with the catch, said bar being adapted to be turned and pushed inward against the spring-pressure to cause said wedge to bear upon the catch, substantially as described.

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

WILLIAM H. THOMPSON.

Witnesses:
L. S. HOFFMAN,
C. S. RHODES.