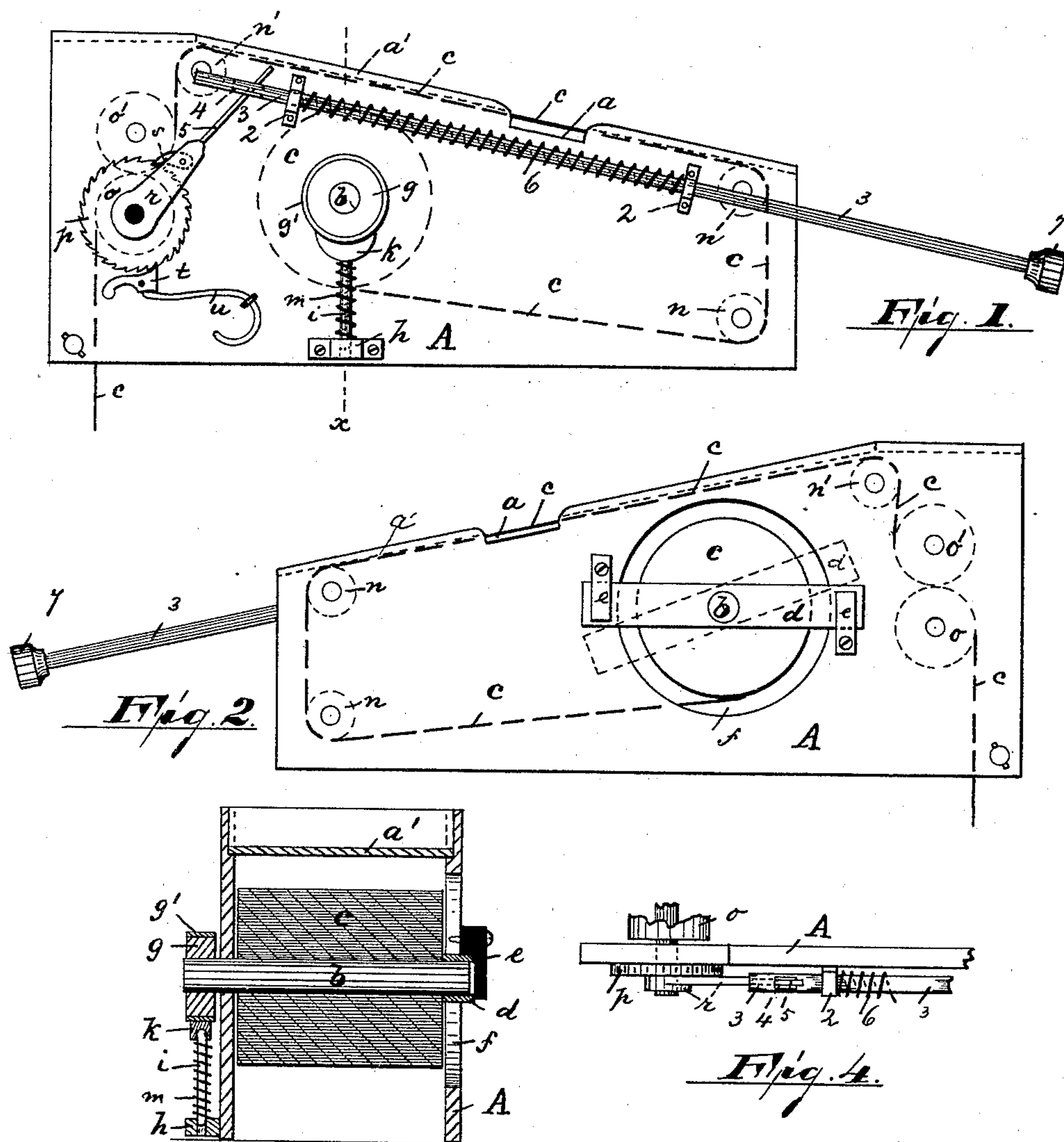


(No Model.)

J. TACK.
CASH RECORDER.

No. 452,930.

Patented May 26, 1891.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JEAN TACK, OF NEWARK, NEW JERSEY.

CASH-RECORDER.

SPECIFICATION forming part of Letters Patent No. 452,930, dated May 26, 1891.

Application filed January 30, 1891. Serial No. 379,637. (No model.)

To all whom it may concern:

Be it known that I, JEAN TACK, a citizen of the United States, residing at Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Cash-Recorders; and I do hereby 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 letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to the system of recording cash or other receipts and keeping a record of the same in connection with each movement of the recorder and cash-box, and has for its object a means of simplifying and recording the amount of a sale or purchase and preventing any change or alterations of the amount received after it has been once entered on the record.

The invention consists in the improved cash-recorder and the combination and arrangement of the various parts thereof, substantially as hereinafter described.

It also consists in the simple mechanism by which the recording-roll can be replaced after it has been fully distributed in the recorder.

Referring to the accompanying drawings, in which like letters and numerals of reference indicate corresponding parts in each of theseveral figures, Figure 1 is a plan side view of a cash-recorder box embodying my improvement. Fig. 2 is a similar view of the other side of the box. Fig. 3 is a vertical section on line *x*, Fig. 1, and Fig. 4 is a top plan view of the pushing or operating mechanism.

In said drawings, A represents a box for supporting and containing the recording mechanism. Within said box is arranged to revolve a shaft *b*, carrying a roll of paper *c*. One end of this shaft revolves in bearings in the box, as shown at the left hand in Fig. 3. The other end of the shaft revolves in bearings on an adjustable and removable bar *d*. This bar is held in proper position by open-end clamps *e e*, secured to the box and oppositely arranged with respect to each other, as shown in Fig. 2. When the bar *d* is turned on the shaft *b* as a pivot in the direction shown in

dotted lines, the ends of the bar are released from the clamps *e e*. The bar *d* can then be withdrawn and a new roll of paper be applied to the shaft through an opening *f* in the side of the box for further use. The opposite end of the shaft *b* extends out beyond the side of the box and has adjustably secured on it in any desired manner a small pulley or wheel *g*, having secured to its outer periphery a rubber or elastic band *g'*.

Upon the outside of the box and directly under the end of the shaft *b* is secured a block or support *h*, in which rests or is secured a post *i*, upon the upper end of which is adjusted a flexible or elastic shoe or brake *k*, adapted to bear against the outer periphery of the elastic band *g'* and held in continual contact therewith by the action of a spring *m*, surrounding or in connection with the post *i*, as shown in Figs. 1 and 3. The top of the box is preferably made sloping, and at any convenient place is provided with a recess or depression *a*, the portions of the sloping top above this depression being provided with a glass cover *a'*, whereby the marks on the paper can be seen but not touched after it has passed the recess where the entries are recorded as each sale is made. The paper *c* as it passes from the roller-shaft *b* passes forward and around tension or guiding pins or rolls *n n'*, to and between regulating feed-rolls *o o'*, secured to shafts adapted to revolve in bearings in the sides of the box. The shaft carrying feed-roll *o* extends outside of the box and has secured thereto a ratchet-wheel *p*, with outwardly-extending crank-arm *r* pivoted on said shaft, and upon which arm is pivoted a pawl *s*, adapted to engage with the teeth on the ratchet *p*. To prevent the ratchet from turning backward, a retaining-pawl *t* is arranged, preferably on the under side of the ratchet, and is held in continual contact with the ratchet-teeth by means of a spring *u*, secured to the side of the box.

Upon the outside of the box and at convenient distance apart are secured guides or ways *2 2*, in which reciprocate or slide an operating-lever *3*, slotted at or near its inner end, as shown at 4 in Fig. 4, in which is adapted to move the end of a lever-rod *5*, extending from and secured to the end of the crank-arm *r*. This operating-lever is held in

its normal position by a spiral spring 6, surrounding said lever and located between the guides 2 2. The outer end of the operating-lever 3 is provided with a handle 7.

5 The operation of my cash-recorder is as follows: The bar *d* is turned into the position shown in dotted lines in Fig. 2, when it is then removed from the end of the shaft and a roll of paper applied to the shaft, the bar
10 replaced, and turned so that its ends shall be under and secured by the clamps *e*. The free end of the paper is brought down and forward, then around one tension pin or roll, and up around another tension-pin to the top of
15 the box, thence rearward and under the top of the box to and across the depression in the top or lid, and under the glass cover toward the rear of the box, thence down and between the feed and ratchet rolls *o o'* to a box or re-
20 ceptacle for holding the strip of paper after it has served its purpose as a recorder. The device is now ready for use.

The salesman or operator whenever a sale is made records the amount of the sale with
25 such other memoranda as may be desired on the exposed portion of the strip of paper on the depression *a* in the top of the box. The operating-lever 3 is then pushed a distance corresponding to the length of the exposed portion of the paper on the recess. This opera-
30 tion causes the pawl-lever to move backward and with it operates the ratchet-wheel, thus causing the paper to move backward the required distance, and the portion containing
35 the record will be carried up under the glass cover, leaving a clear and exposed portion of the paper ready for another recordation. After the operating-lever has been pushed as described it will be returned by the action of
40 the spring 6 to its normal position, ready for another operation; but the ratchet-wheel governing the movement of the paper strip will be held in its position by the retaining-pawl

t. Two, three, or more records can be seen at a glance under the glass cover, according 45 to its length, as will be manifest.

In my construction I have shown the paper strip as passing over and around a series of pins or rolls for the purpose of holding the strip firm and taut between the paper roll and 50 the ratchet feeding-roll; but other means may be employed to accomplish the same purpose without changing or varying the general scope of my invention; nor do I intend to limit myself to the exact construction of the operat- 55 ing parts, as shown.

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

1. A cash-recording device comprising a re- 60 ciprocating push-rod slotted at one end and provided with an adjusting-spring, a ratcheted feed-roll, a crank-arm pivoted on the shaft carrying the feed-roll and adapted to reciprocate in the slot in said push-rod, a pawl 65 pivoted to said crank-arm and adapted to engage with the teeth of said ratchet, and a retaining-pawl, all said parts being arranged and adapted to operate substantially as de- 70 scribed, and for the purposes set forth.

2. A cash-recording device comprising therein a paper-revolving mechanism consisting of a paper roll, a frictional pulley on one end of the shaft carrying said paper roll, an adjustable brake adapted to bear against said 75 friction-pulley, and a removable bearing or support for the other end of said paper-roll shaft, all substantially as described, and for the purposes set forth.

In testimony that I claim the foregoing I 80 have hereunto set my hand this 27th day of January, 1891.

JEAN TACK.

Witnesses:

E. L. SHERMAN,
WALTER THOMPSON.