

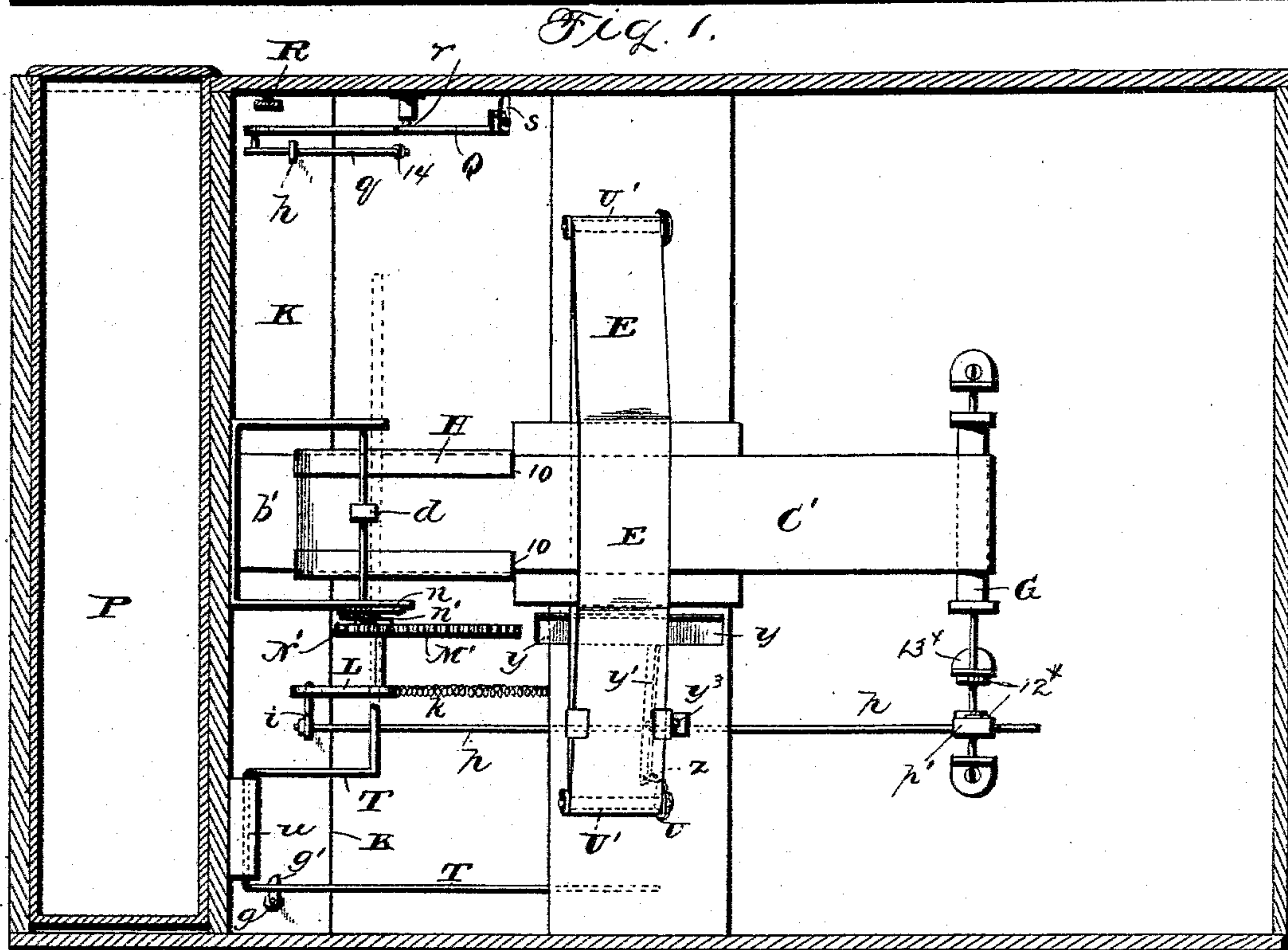
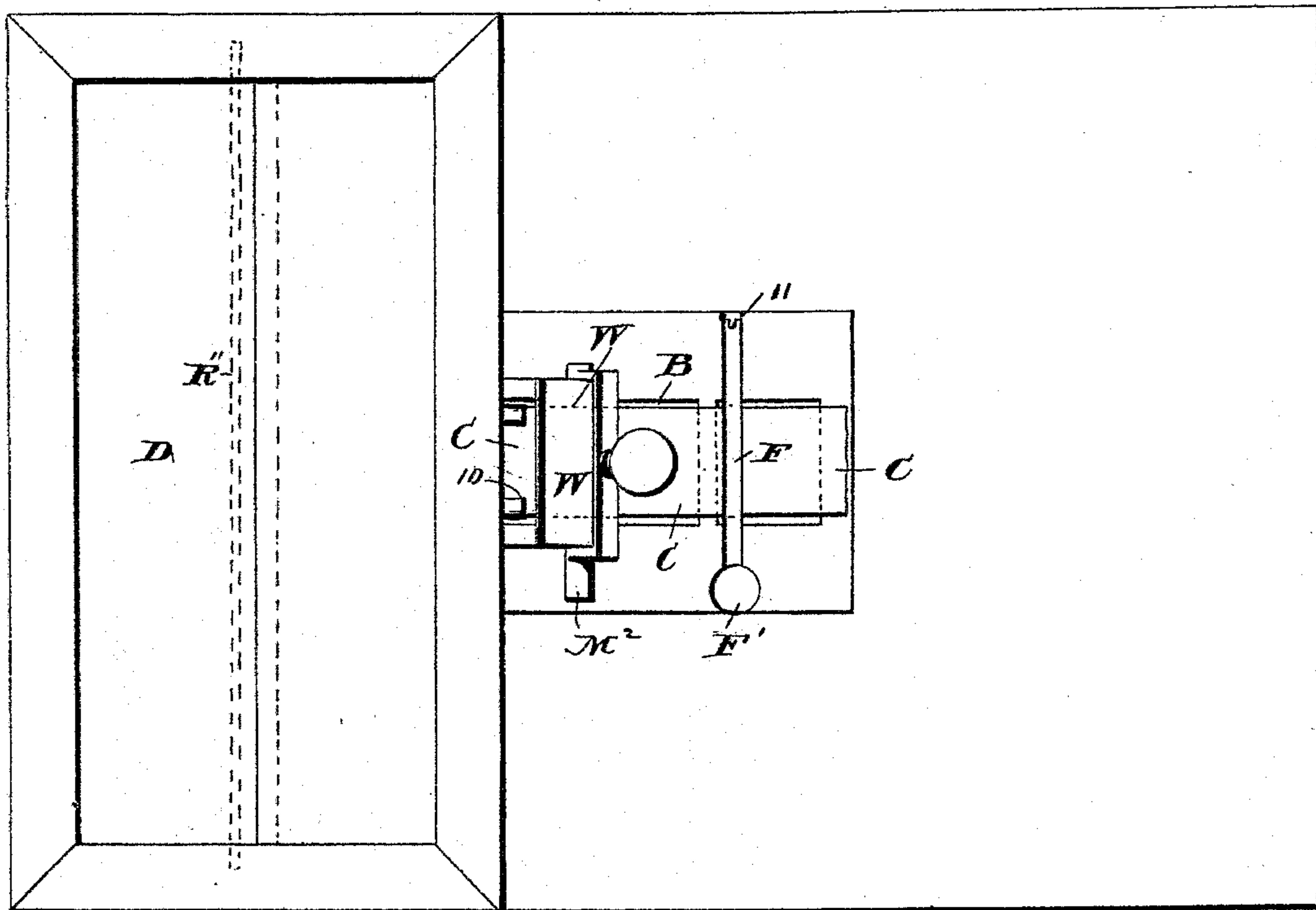
(No Model.)

2. Sheets—Sheet 1.

A. OLSEN.
AUTOGRAPHIC REGISTER.

No. 494,881.

Patented Apr. 4, 1893.



Witnesses
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M. L. Mouldson.

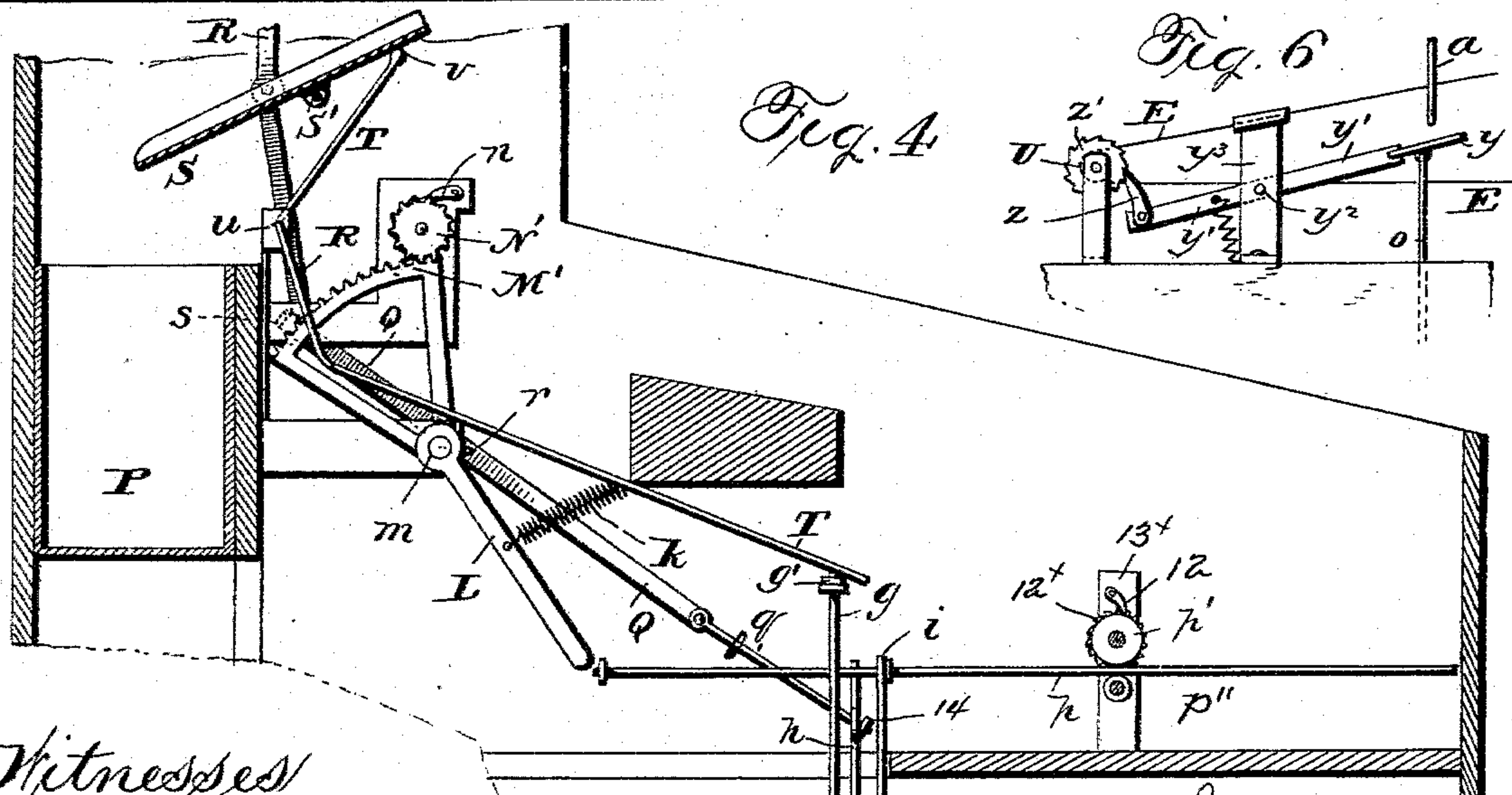
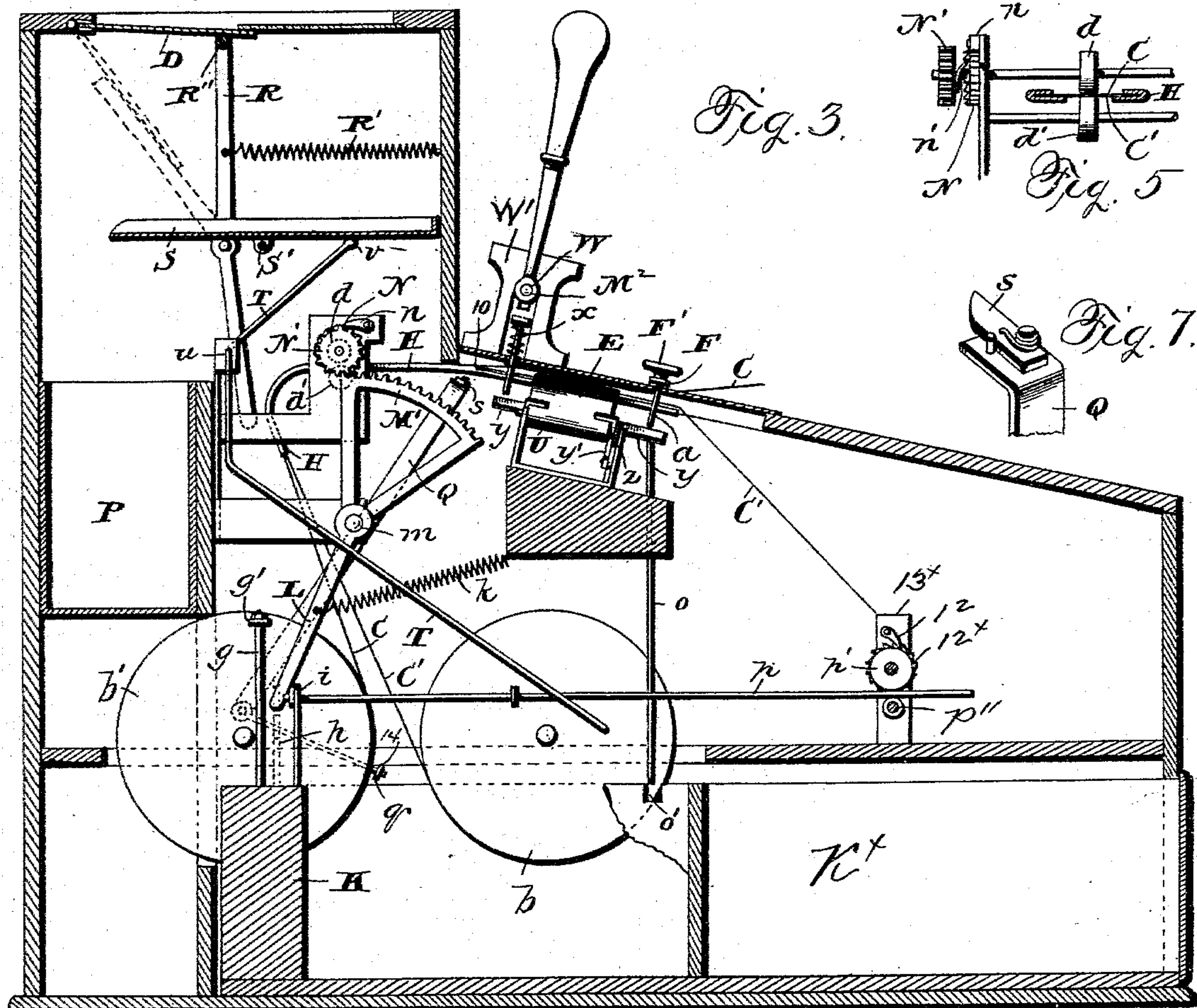
Fig. 2.

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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

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AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 494,881, dated April 4, 1893.

Application filed September 30, 1891. Serial No. 407,294. (No model.)

To all whom it may concern:

Be it known that I, ANTON OLSEN, a subject of the King of Denmark, residing at Copenhagen, Denmark, have invented certain new and useful Improvements in Autographic Registers; 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 and figures of reference marked thereon, which form a part of this specification.

The invention includes two movable paper strips, one being intended to be torn off, to supply the customer, with a memoranda of the purchase, and the other to receive said memoranda by means of an interposed carbon strip, the latter memoranda strip being wound within the casing.

The invention includes the various combination of devices hereinafter explained.

In the drawings: Figure 1 is a plan view of the machine. Fig. 2 is a plan view of part of the interior mechanism, parts of the frame being in section. Fig. 3 is a central vertical section through the frame or case with parts of the interior mechanism in section and parts in elevation. Fig. 4 is a view similar to Fig. 3 of a portion thereof, showing the parts in a different position. Figs. 5, 6 and 7 are views of details.

The casing has an opening B to which the two strips of paper C C' are directed through a guide H, and rollers d d' from the spools b b' , said strips being arranged one above the other, the upper C passing out of the guide at the point 10, to go over a carbon ribbon E and out through the opening B, while the under strip passes under the said ribbon and thence down within the case to the winding roller G. The paper is fed forward one step each time the drawer K^x is pushed in by the pin i , on the drawer extension K, striking the lever L pivoted at m and having a segmental rack M' at its upper end engaging a pinion N' loose on the shaft of roller d , which pinion is connected by any suitable clutch n' with the ratchet N fixed to the roller shaft so that the forward movement of the rack M' as the lever L is swung back at its lower end, will turn the roller to feed the paper forward

whereas on the opening of the drawer, the spring k will return the lever L to normal position, but this movement will not affect the roller d as this will then be held by the pawl n engaging the ratchet N, the clutch connection n' allowing the pinion N' to turn backward freely. The memoranda of the purchase having been made on the upper slip C, this portion may be torn off by the straight edge F movably connected at 11 to the casing extending thence transversely across the strip and having at its end the button F', by pressing down upon which the straight edge is forced into contact with the strip C which may then be torn off and given to the customer with the proper memoranda thereon.

In order to move the collar band or ribbon E step by step each time the straight edge is depressed the said straight edge has a depending pin a , Figs. 3 and 6, which presses upon a board y on the lever y' pivoted at y^2 on the standard y^3 Fig. 6, said lever having a pawl z , engaging a ratchet wheel z' on the roller U, to which the end of the color band is fastened, the other end being fastened to the other roller U', Fig. 2. It will be seen that each depression of the straight edge, will cause the feeding of the transverse color band one step through the lever and ratchet and pawl construction described. The color band may be operated also each time the stamping device W is used, Figs. 1 and 3, said device being vertically movable in a guiding bracket W' and having a lug M² adapted to press upon the pin x , which like the pin a is arranged over the board y of the lever y' to operate said lever when depressed.

The winding roller G is operated from the pin i , by a rod p , engaging the wheel p' , and moving it by frictional contact therewith when the rod is moved in one direction but when the rod moves in the other direction it slips over the surface of the roller as the roller at this time is held against retrograde movement by the pawl 12 engaging with the ratchet wheel 12^x fixed on the shaft of the roller G, said pawl being pivoted to a stationary stud or post 13^x. The rod p is kept in proper frictional contact with the roller p' by a smaller roller p'' .

The money is placed upon the pivoted plate D at the top of the casing, this is held

normally up by a lever R having a cross rod, R'' at its upper end. The lever is under tension of a spring R' to keep it in the position shown in Fig. 1. The lower end of the lever is in the path of the pivoted spring catch s on the upper end of a lever Q pivoted at r and connected at its lower end with the drawer extension, by a link g passing loosely through an opening in the pin h on said extension, the end of the link, having a button 14. As the drawer is pulled out, the pin h strikes this button and through the link moves the lever Q so that its spring catch s gets back of the lower end of the lever R and then when the drawer is pushed in again, the lever R is turned to the position shown in dotted lines Fig. 1, so that the money will drop from the plate D onto the tray S. The parts are so arranged that as the movement of the levers Q and R continues toward the front, they will disengage themselves as their ends move along diverging arcs, and when so disengaged, the spring R' will draw the lever R to normal position. The spring catch s, is provided so that it may snap behind the lever R.

The money tray S, is pivoted at S' and is operated to tilt and thus deposit the money into the drawer P, by the bent lever T, pivoted at u and connected with the tray at v, the lower end of said lever being in the path of the latch g', Figs. 2 and 3, on top of the pin g, secured to the money drawer extension. As the drawer is pulled out, this latch strikes the lever T and tilts the parts as shown in Fig. 4, and as the pin g gets to the front of the lever T, the weight thereof will act to tilt the parts back into normal position, on the return of the drawer the pivoted catch g snaps by the lever T and gets behind it for another action.

In order to prevent the drawer from being pulled out when the straight edge is depressed, the rod o is provided depending from the board y of the lever y' down to the drawer and engaging an opening o' in the said drawer.

I claim—

1. In combination, the casing having the opening, the carrying means for the two paper strips C, C with means for feeding said strips, the guide for directing the strips, the winding mechanism within the casing for one of the strips, the color band passing substantially at right angles between the two strips, the spools for said color band within the casing, the movable straight edge extending transversely across the path of the upper strip

and adjacent to the opening in the casing therefor, the lever pawl and ratchet device connected with one of the color band spools for operating it to wind the said band, and the pin extending from the straight edge into the casing to operate the pawl lever, substantially as described.

2. In combination the spools for two paper strips with feeding mechanism for said strips, the color band E passing between the two strips, the lever for moving the said color band, and the means for operating the said lever consisting of the stamp having a lug m² and the movable pin, projecting through the casing in line therewith, substantially as described.

3. In an autographic register, in combination with the drawer K^x, the spools for a paper strip, the feeding mechanism for the said strip, operated by the said drawer, the movable plate D at the upper end of the casing the operating connections from said plate to the drawer to be operated thereby, and the receptacle for the money, substantially as described.

4. In combination the drawer K^x a recording strip, the feeding mechanism therefor operated by the drawer, the plate D the lever R engaging said plate to hold it up in normal position the lever Q arranged to operate the lever R said lever being in the path of the drawer to be operated thereby, substantially as described.

5. In combination the drawer K^x, a recording strip with feeding mechanism therefor operated from the drawer the plate D pivoted at the upper part of the casing, the lever connections thereto arranged to be operated by the drawer, the tray S arranged below the plate and the lever operating means therefor arranged to be operated by the drawer, substantially as described.

6. In combination the spools for the two strips with feeding mechanism therefor connected with the drawer, the straight edge the color ribbon E the lever y' for operating the same and the depending rod o for catching the drawer and the winding means for one of the strips, substantially as described.

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

ANTON OLSEN.

Witnesses:

M. HULTGREEN,
TH. PEDERSEN.