

(No Model.)

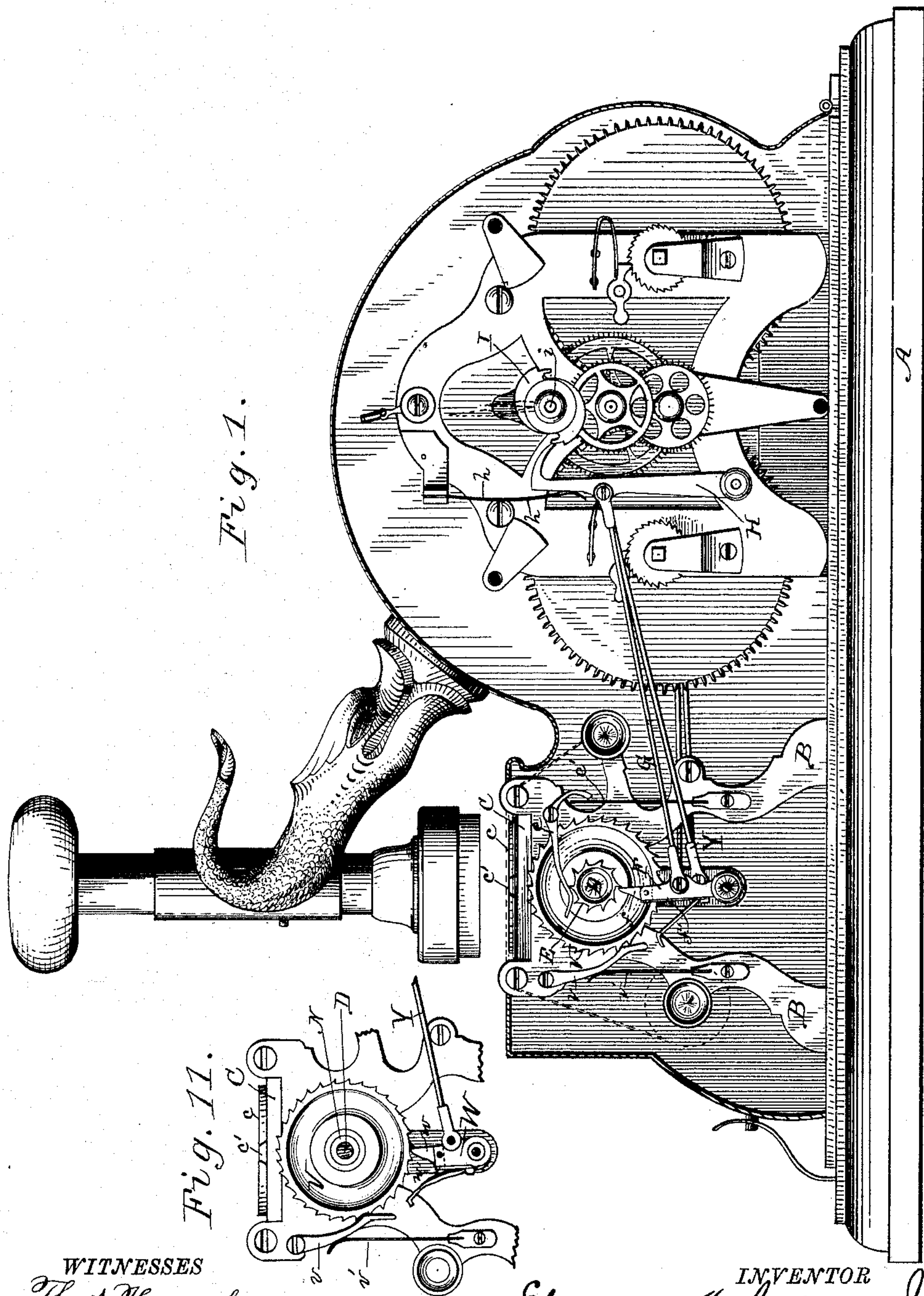
3 Sheets—Sheet 1.

E. H. ROGERS, Jr.

HAND STAMP.

No. 353,161.

Patented Nov. 23, 1886.



WITNESSES
Thos. Houghton.
Frank B. Marlow

INVENTOR
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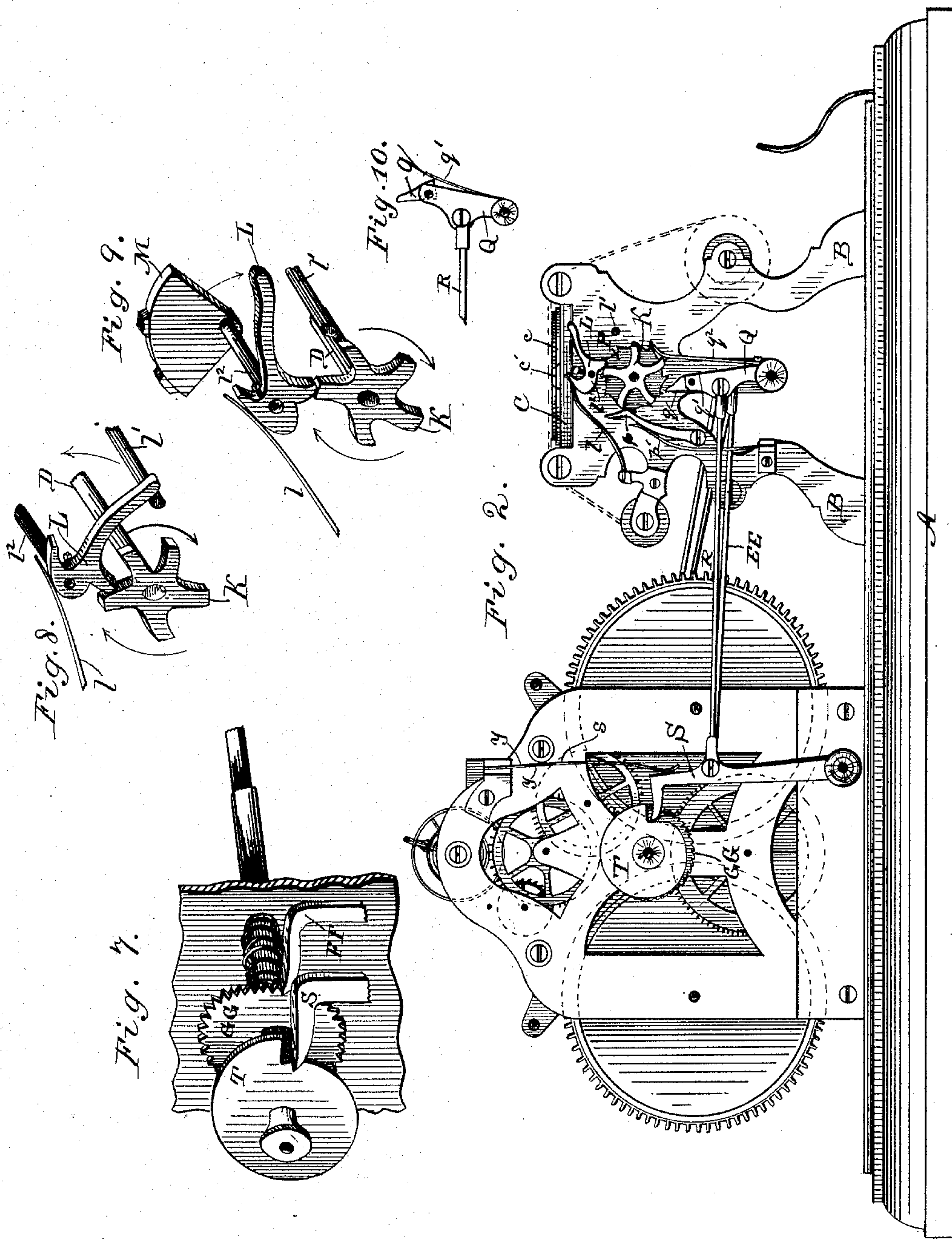
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Fig. 3.

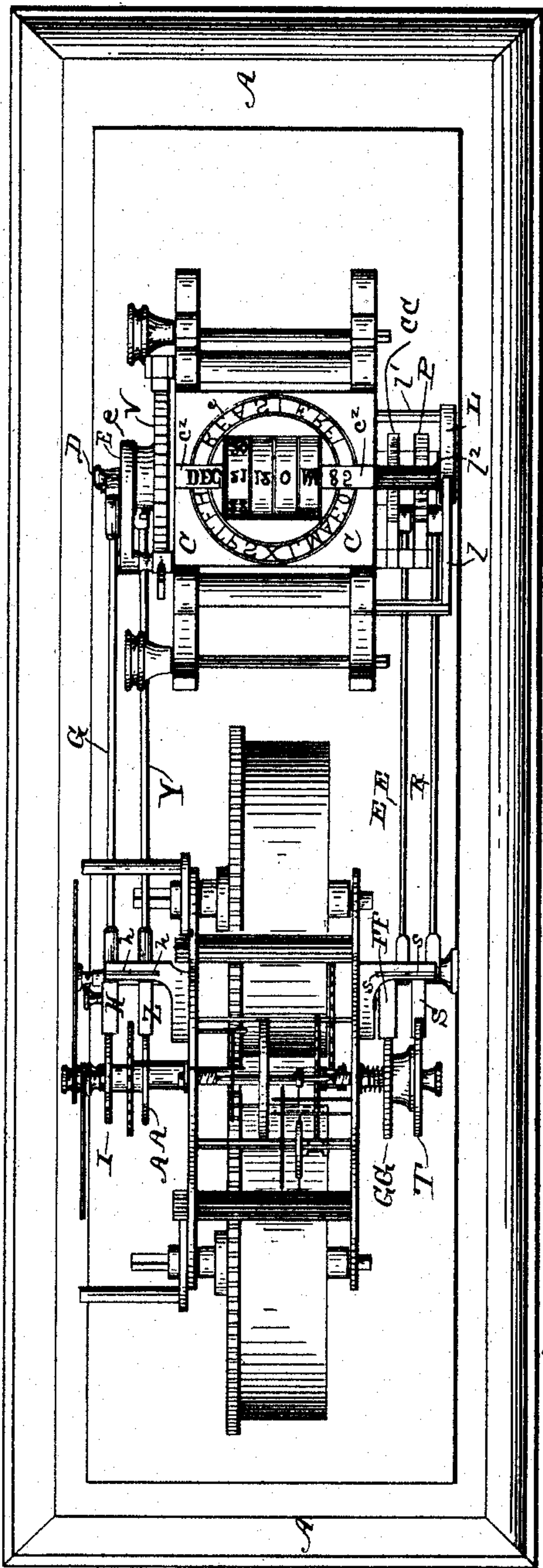


Fig. 6.

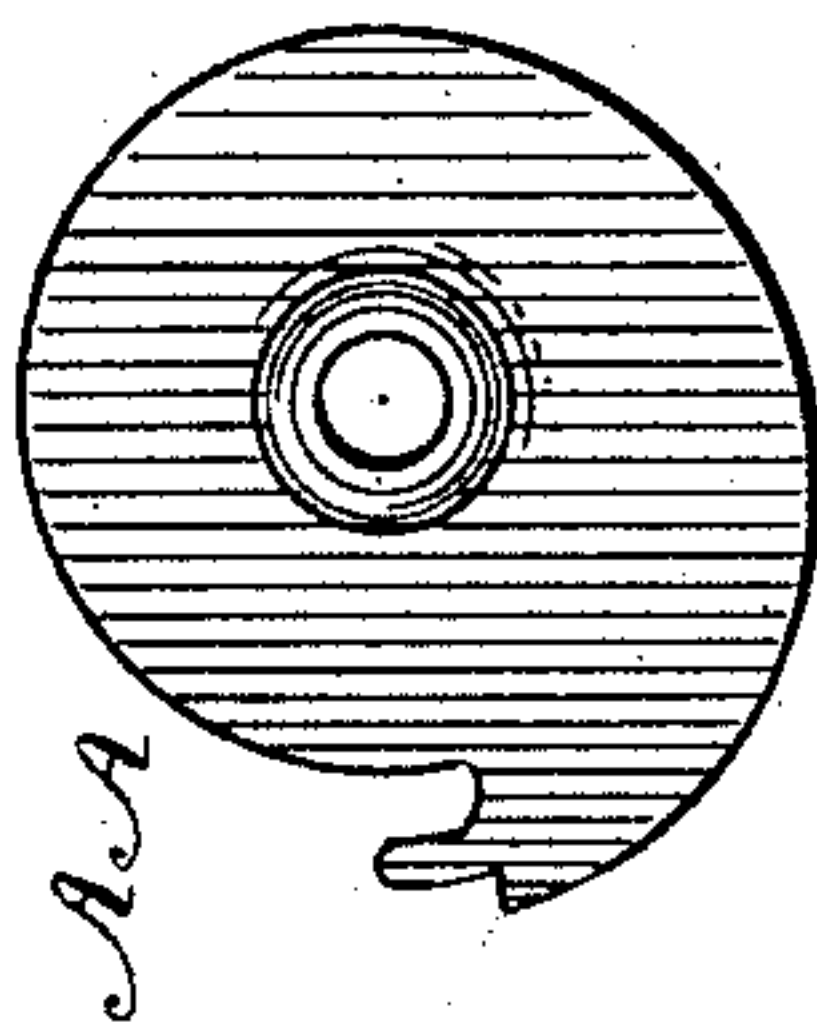
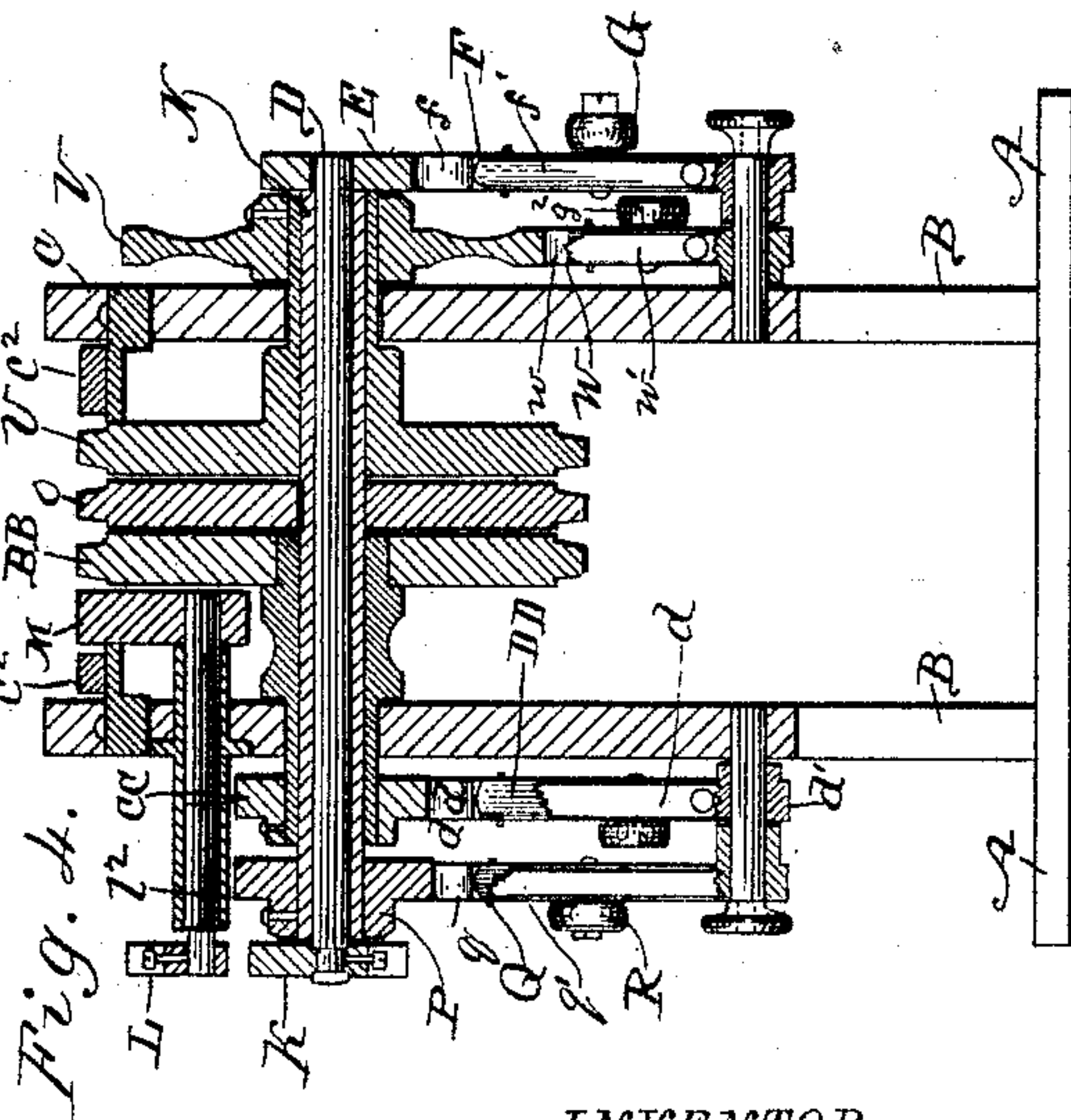
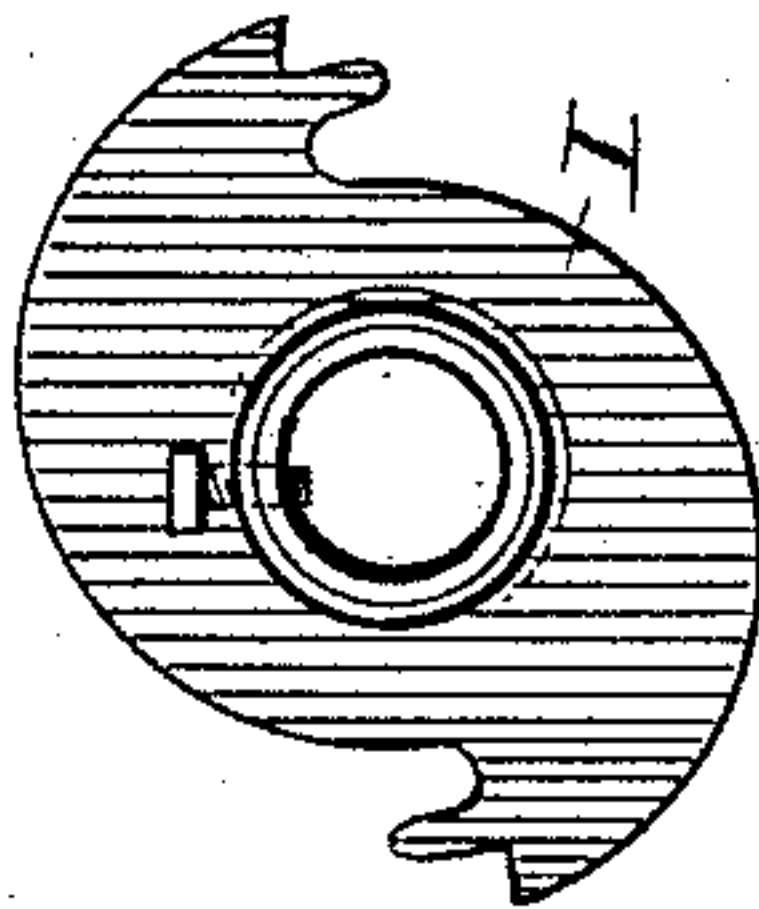


Fig. 5.



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UNITED STATES PATENT OFFICE.

EBENEZER H. ROGERS, JR., OF BROOKLYN, NEW YORK.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 353,161, dated November 23, 1886.

Application filed March 29, 1886. Serial No. 196,970. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER H. ROGERS, Jr., a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Hand-Stamps; 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.

This invention relates to hand-stamps for imprinting dates and other information upon suitable surfaces, and its object is to automatically adjust certain of the changeable parts of the stamp for each successive imprint. I accomplish this by putting my printing-types on wheels, and revolving the latter by means of ratchets, pawls, and levers connected with an ordinary clock-movement.

In the accompanying drawings, wherein like letters represent like parts, Figure 1 is a front elevation of the stamp; Fig. 2, a rear elevation thereof; Fig. 3, a top plan thereof; Fig. 4, a cross-section through the type-wheels and accessories; Fig. 5, an enlarged view of the cam shown in the first figure; Fig. 6, an enlarged view of the cam A A, shown in plan in the third figure; Fig. 7, a detached perspective of certain parts shown in the second figure; Fig. 8, also a view of parts shown in the second figure; Fig. 9, a modified view of the same parts with additions; Fig. 10, a detached view of one of the pawls used in connection with the system of ratchets, and shown in the first and second figures; and Fig. 11 is a detailed view of a pawl and accessories shown in Fig. 4.

A is a platform, upon which is a frame, B, and in the top of this frame is a platen, C, provided with an annular step, *c*, wherein are recesses *c'*, for the insertion of blocks *c''*, which have on their faces raised types indicating the name of a month or year. These blocks are inserted and removed by hand, as occasion may require. An inking-ribbon passes over the platen, and is carried and adjusted in the customary manner, so that no description of ribbon or carrier is needed.

In the frame B is a shaft, D, to which is keyed a ratchet, E, meshing with a pawl, F, having a pivoted toe, *f*, and a flat spring, *f'*, to keep the toe vertical when not under pressure. A rod, G, is pivoted at one end to the pawl F and at its other end to the pawl H, which is governed by a flat spring, *h*, in the manner shown in Fig. 1. This pawl bears against a double cam, I, sleeved upon an extra shaft, *i*, formed on the clock-frame, and is operated from the main shaft of the said clock-work by any suitable system of gear-wheels, as indicated in Fig. 1.

In the regular operation of the clock-movement the cam I revolves toward the left hand, whereby the pawl F is pushed from the right to the left side of that tooth of the ratchet E which is next to be operated upon. When the toe of the pawl H drops into an outer notch of the cam I, the pawl F goes into position to turn the ratchet E one space to the left, and when the toe of the pawl H falls into the inner and larger notch of the cam the turn is made. A pawl, *e*, governed by a spring, *e'*, serves to steady the wheel at each turn; but novelty is not claimed for this device.

Keyed to the shaft D at the opposite extremity from the wheel or ratchet E is another ratchet, K, co-operating with a gravity-pawl, L, which is governed by a spring, *l*, and a stud, *l'*, in the manner shown. This pawl is keyed to a sub-shaft, *l''*, journaled in the frame B, and at the inner end of this sub-shaft is keyed a block, M, bearing on its upper face the legends "A. M." and "P. M.," as indicated in Fig. 3. When the legend A. M. is on the printing-line in relation to the platen C, the ratchet K and pawl L are in the position shown in Fig. 9; but at the next turn of the ratchets E and K the position is changed to that shown in Fig. 8, and the legend P. M. then comes to the printing-surface.

In casing the shaft D is a sleeve, N, to which is keyed a type-wheel, O, bearing figures denoting the twelve hours of a meridian, and keyed to the same sleeve is a ratchet, P, meshing with a pawl, Q, constructed (like the pawl F) with pivot-toe *q* and spring *q'*, and having an extra spring, *q''*, fitting within the notches of the ratchet P, to steady it in making a turn. This pawl is pivoted to a rod, R, and this to a

pawl, S, governed by a spring, s, all as hereinbefore stated with reference to the rod G and pawl H, and the pawl S bears against a cam, T, which is keyed to the main shaft of the clock-work, 5 so as to make a complete revolution in company with the minute-hand of the clock.

It is unnecessary further to describe the operation of the mechanism of the hour-wheel, because of its similarity to the operation of 10 the mechanism pertaining to the meridional block M.

Sleeved upon the sleeve N is a wheel, U, bearing figures indicating the thirty-one days of a full calendar month. Keyed to the sleeve 15 of this wheel is a ratchet, V, having thirty-one teeth and meshing with a pawl, W, having pivot-toe *w* and spring *w'*, and this pawl is pivoted to a rod, Y, which connects with a pawl, Z, Fig. 3, which is in all respects like the pawl 20 H, and this pawl operates upon a cam, A A, which is outlined in Fig. 6. This cam is upon the same sleeve as the cam I, and turns with it, so that the position of the wheel U is changed at the end of each twenty-four hours. When- 25 ever a calendar month has less than thirty-one days, the surplus figures may be skipped by turning the minute-hand of the clock. The wheel V is steadied in turning by a pawl, *v*, governed by a spring, *v'*, as to which novelty 30 is not claimed.

Sleeved upon the sleeve N is a wheel, B B, bearing upon its periphery the figures denoting the successive minutes in an hour, and keyed to the sleeve of this wheel is a ratchet, 35 C C, containing sixty teeth and meshing with a pawl, D D, having toe *d d* and spring *d' d'*, which pawl is connected to a rod, E E, a pawl, F F, and a ratchet, G G, having sixty teeth, and which is upon the same sleeve as the cam 40 T, so that by this arrangement, and in a manner already sufficiently described, the position of the wheel B B is changed every minute.

Having thus sufficiently described my invention, what I claim to be new and useful, 45 and desire to secure by Letters Patent, is the following:

1. In a hand-stamp, a platen, as C, provided with an annular step, *c*, recesses *c'*, and movable blocks *c''*, for the purpose of imprinting letters or other characters upon any suitable 50 surface.

2. The combination, in a hand-stamp, of any suitable supports with the type-wheel U, the ratchet V, the pawl W, having toe *w* and spring *w'*, the rod Y, the pawl Z, having spring 55 *z*, the cam A A, and an ordinary clock-movement to revolve said cam, whereby the characters representing the current day of a month may be automatically adjusted.

3. The combination, in a hand-stamp, of any 60 suitable supports with the block M, the ratchets E and K, the pawl F, having toe *f*, and spring *f'*, the rod G, the pawl H, having spring *h*, the cam I, the pawl L, and an ordinary clock-movement to revolve said cam, 65 whereby the characters representing the meridional divisions of a day may be automatically adjusted.

4. The combination, in a hand-stamp, of any suitable supports with the wheel O, the sleeve 70 N, the ratchet P, the pawl Q, having toe *q*, and spring *q'*, the rod R, the pawl S, having spring *s*, the cam T, and an ordinary clock-movement to revolve said cam, whereby the characters representing the hours of a meridional division 75 of a day may be automatically adjusted.

5. The combination, in a hand-stamp, of any suitable supports with the wheel B B, the 80 ratchet C C, the pawl D D, having toe *d d*, and spring *d' d'*, the rod E E, the pawl F F, having spring *f' f'*, the ratchet G G, and an ordinary clock-movement to revolve said ratchet last named, whereby the characters representing the minutes of an hour may be automatically 85 adjusted.

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

EBENEZER H. ROGERS, JR.

Witnesses:

FRANK WHEATON,
C. M. BROWN.