

(No Model.)

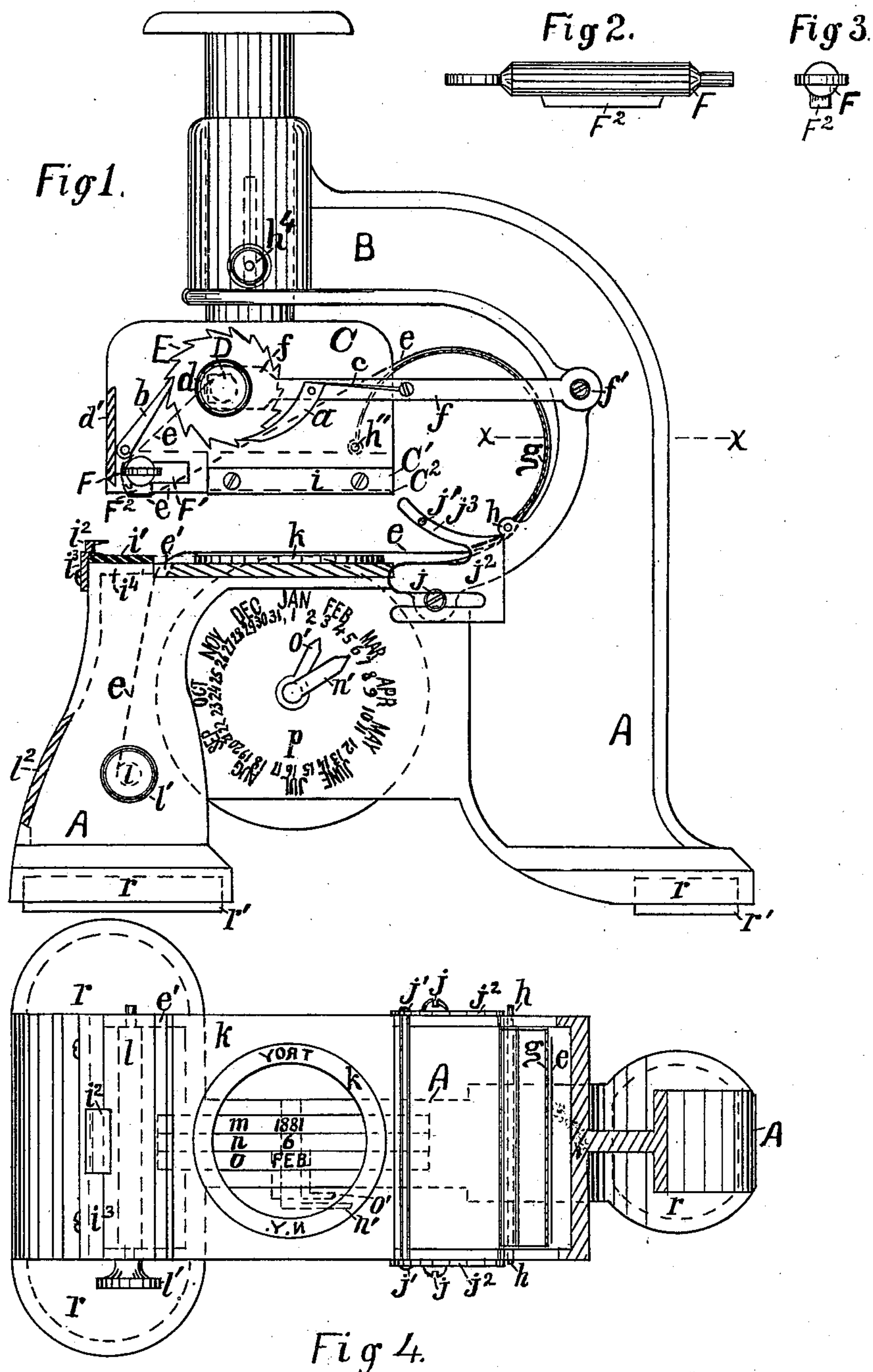
2 Sheets—Sheet 1.

W. H. POOLE.

HAND STAMP.

No. 256,242.

Patented Apr. 11, 1882.



Witnesses

Patrick Harvey
H. A. Herring

Inventor.

William H. Poole
By Wm Zimmerman
Atty.

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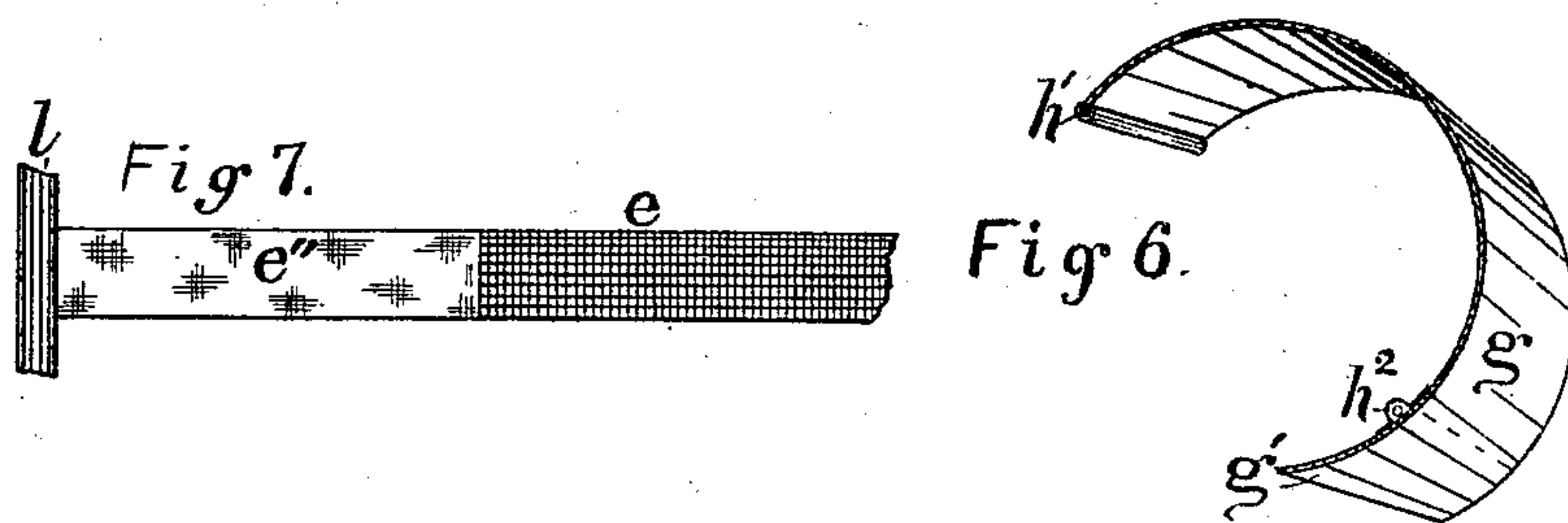
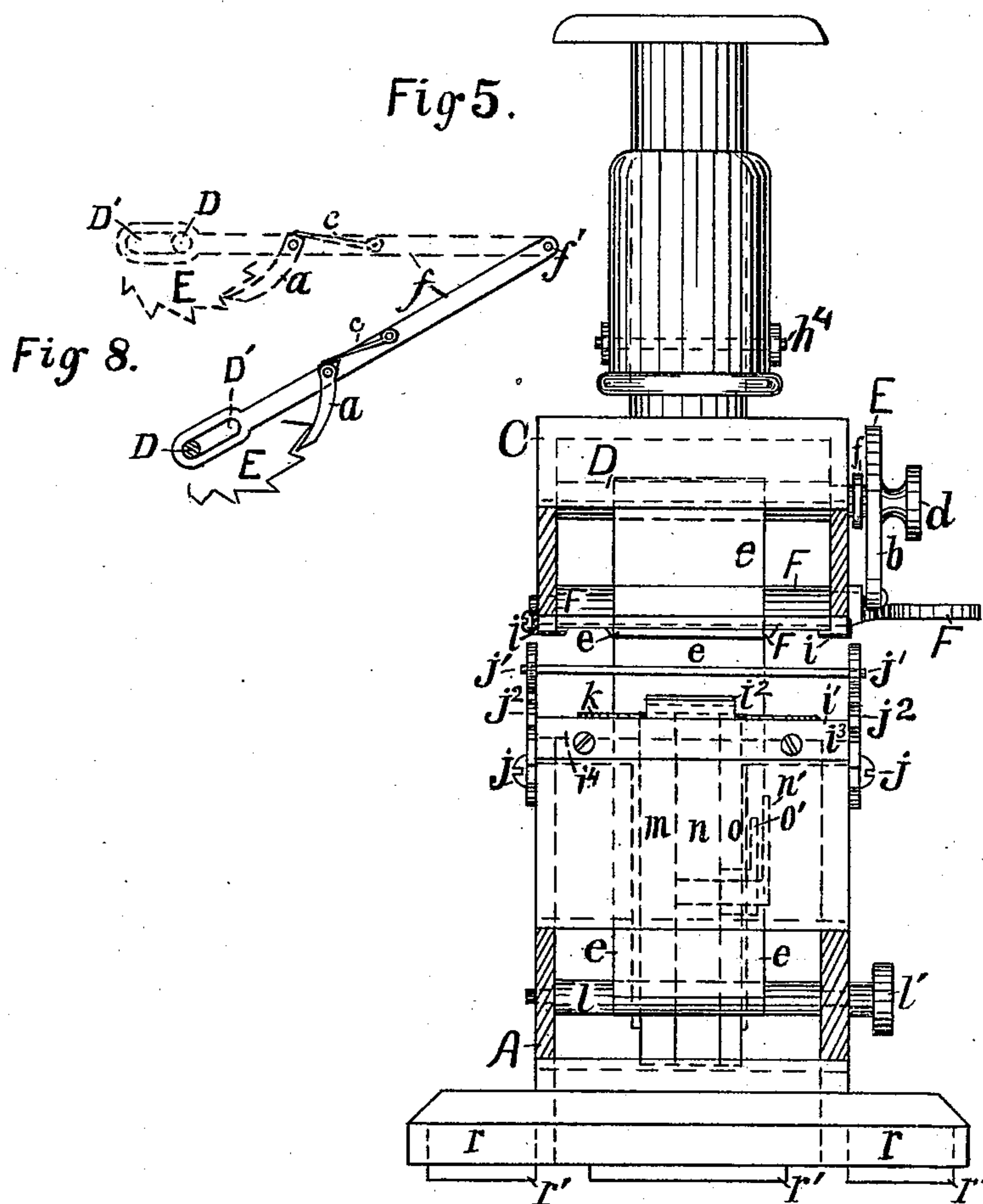
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UNITED STATES PATENT OFFICE.

WILLIAM H. POOLE, OF CHICAGO, ILLINOIS.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 256,242, dated April 11, 1882.

Application filed February 24, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. POOLE, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hand-Stamps; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 represents a side elevation of my improved hand-stamp. Fig. 2 represents a side view of a removable die, F. Fig. 3 represents an end view of the same. Fig. 4 represents a plan view of the parts below the plunger, it and all parts above the line *xx* being removed. Fig. 5 represents a front view of my hand-stamp with the working parts in the plunger and base partly exposed. Fig. 6 represents a perspective view of the spring *g*. Fig. 7 represents my improved inking-ribbon for automatically inking the dies of my hand-stamp. Fig. 8 represents a detached view of the slotted lever *f* and its attached pawl *a* and spring *c*, together with part of the ratchet-wheel E, the full lines showing the position of the shaft of the drum D in the slot D' when the plunger-head has reached the end of its stroke, and the dotted lines show the position of the shaft of the drum D in the slot D' when the several parts are in their normal position.

Like letters of reference indicate like parts.

My invention relates to that class of hand-stamps more particularly adapted for stamping railway coupon-tickets; and it consists in the combination of the several parts, as hereinafter described and claimed.

In the drawings, A represents the base or body part of my improved hand-stamp, which is cast hollow, so as to receive a drum or roller, *l*. On the outside edge of the base, and on a level with the die *k*, is a platen, *i*¹, faced with rubber *i'*, and on one side of the base, under the die *k*, is constructed a dial on which are marked, in concentric circles, the names of the months and days of the month.

To the shaft of the dating-wheels *n* and *o* are

attached hands *o'* and *n'*, each of which moves with its corresponding dating-wheel, and which is so arranged as to point on the dial to the date or figure which the stamp will print upon the card or ticket. The dating-wheels are engraved on their peripheries with the desired letters and figures, which project through the circular opening of the removable die *k*, and are on a level with it, so that the dating-wheels and horizontal die *k* give each their impression at the same time and on the same surface. The wheel *m*, indicating the year, is set only once for a year, and therefore does not necessarily require an index and dial.

From the rear edge of the base rises, so as to form a part thereof, a curved arm, B, provided with a socket in which works a plunger carrying a head, C. Said plunger is hollow and provided with a coiled spring, the lower end of which rests on the pin *h*⁴, passing through the socket, and the plunger is provided with slots, (shown dotted,) so as to allow it vertical play. This part of the construction is not claimed as new. The head C of the plunger is provided with a platen, C', which is faced with a soft elastic material, as rubber, (shown at C²,) to prevent injury to the dies *k m n o*, which it strikes when in operation. The rubber facing C² is held in place by rectangular clamps *i*. The part of the head C over the platen *i*⁴ is provided with a slot, F', into which is placed a removable die, F, having its bearings in the sides of the head C.

Upon the inside of the head C is a revolving drum, D, to which is attached an inking-ribbon, *e*, which passes around the face of the die F, behind the platen C', and around the outer surface of the curved spring *g*, and out at its toe *g'*, over the die *k* and dating-wheels *m n o*, and through the slot *e'*, down to the drum *l*, to which its other end is attached, and upon which about a yard or more of it is wound before use.

To the shaft of the drum D, immediately outside of the head C, is attached a lever, *f*, the other end of which is pivoted at *f'*, and upon which are a pawl, *a*, and a spring, *c*. Said spring *c* presses upon the heel of the pawl and keeps its point engaged with the

teeth of the ratchet-wheel E. A milled head, d , is also attached to the shaft of the drum D, and a sliding door, d' , is shown on the end of the head C to provide access to the drum D.

5 The drum l is also provided with a milled head, l' , and a sliding door, l'' , provides access to the drum.

10 The rectangular clamp i^3 , which holds the rubber facing i' upon the face of the platen i^4 , is provided with a hook, i^2 .

On each side of the base A, and back of the die k , are adjustably attached by screws j notched plates j^2 , the upper part of which forms an arm, j^3 . Said arms are united by a bar, j' , and the parts so united form a gage or guide, with i^2 , for the tickets as they are passed under the stamp.

20 The lower part of the spring g is provided with an eye, h^2 , by means of which it is fastened to the base A by a pin passing through lugs h . The other end thereof is also provided with an eye, h' , and fastened by a pin, h'' , to the head C. The feet of the base are provided with sockets or recesses r , into which are secured elastic or rubber blocks r' , for the purpose of giving elasticity to the apparatus, and prevent the injurious jar, as well as noise, when in use.

30 The die F is provided with the name F^2 , in raised letters, of a point or destination on the route, and of which as many should be provided as the route has stations.

The manner of using my improved hand-stamp is as follows, to wit: The gage j^2 is first set to the given width of ticket to be stamped by means of the screws j , which bind it to the desired point after they are adjusted; then the desired die F is placed into the head C, which is done by placing it so that the name or raised letters F^2 shall pass through the slot F' , and after it has passed clear in it is turned so that the name F^2 shall be above the ribbon e and face the platen i^4 . The die k is made and attached once for all for the station at which it is to be used. Next, the dating-wheels are set

45 for the year, month, and day of the month, and all the other parts being constructed and arranged as described, a ticket is placed between the hooks i^2 and j^3 , and over the dies and platen of the base and the head C forced down upon it by striking the plunger. As the head C descends the pawl a rises into the next higher notch of the ratchet-wheel E, and as it automatically rises to its original position by the force of the spring within the plunger it forces the ratchet-wheel to turn a notch, and so turns it and the drum D, to which it is attached, and thereby slowly winds the ribbon e upon the drum when the stamp is worked. The lever f is pivoted at f' and longitudinally slotted where it is connected with the shaft of the drum D, which permits it to vibrate with the head C, so as to cause the drum D to turn as described. A pawl or detent, b , holds the wheel E while the pawl a is passing to the next notch. The spring g vibrates with the head C and tends to keep the ribbon taut, so

as to permit the dies to give a uniform and perfect impression. It also serves to keep the ribbon out of the way. The spring g is sometimes extended beyond the eye h^2 , so as to form a spring-toe, g' , for the purpose of bearing the inking-ribbon down firmly on the base.

In order to enable the operator or person using my hand-stamp to see when the inking-ribbon has passed from the lower drum, l , to that of the upper drum, D, in time to prevent the ribbon from being broken or injured, as otherwise would be apt to be the case, as the operator has no warning and could only ascertain the fact by frequent and careful examinations, I construct my inking-ribbon with several inches of the lower part attached to the drum l blank or white, which will at once attract the attention of the operator as it passes up through the slot e' over the dies, and in case this should fail to be observed it will, as soon as the blank part e'' passes over the dies, cease to print upon the ticket, and then compel attention to the fact that the ribbon must again be rewound upon the drum l in the base of the hand-stamp.

Having thus explained my invention, what I claim is—

1. In a hand-stamp, a base provided with a platen, removable die, and a fixed arm carrying a vertically-reciprocating plunger provided with a removable die, platen, and automatically-turning drum for the purpose of winding the inking-ribbon thereon, all arranged to operate substantially as and for the purposes specified.

2. A hand-stamp the base of which is provided with a platen, removable die, and drum carrying an inking-ribbon, and a fixed arm carrying a vertically-reciprocating plunger provided with a removable die, platen, and automatically-turning drum upon which the inking-ribbon is wound, all arranged to operate substantially as and for the purpose specified.

3. In a hand-stamp, a base provided with a platen, removable die, series of dating-wheels, and drum carrying an inking-ribbon, and a fixed arm provided with a vertically-reciprocating plunger having a platen, removable die, and an automatically-turning drum upon which the inking-ribbon is wound, and which is actuated by means of a lever attached to said drum and pivoted to the fixed arm, and provided with a pawl, all arranged to operate substantially as and for the purpose specified.

4. In a hand-stamp, a base provided with a platen, removable die, and drum carrying an inking-ribbon, and a fixed arm carrying a plunger provided with a die, platen, and automatically-turning drum to wind the inking-ribbon, in combination with a spring, g , all constructed to operate substantially as and for the purpose specified.

5. In a hand-stamp provided with drums on which an inking-ribbon is worked from one to the other of said drums, an inking-ribbon pro-

vided with a white or blank end, constructed and arranged to operate substantially as and for the purpose specified.

5 6. In a hand-stamp provided with a reciprocating plunger, a drum, D, provided with a ratchet-wheel, E, and longitudinally-slotted lever *f*, attached to and pivoted at *f'*, and provided with a pawl, *a*, and spring *c*, all combined and arranged to turn the drum D, substantially as and for the purpose specified.

7. The clamp *i*³, provided with a fixed hook, *i*², in combination with the notched plate *j*², united by a bar, *j'*, so as to form an adjustable ticket-gage for a hand-stamp, all constructed and arranged to operate substantially as here- 15 in shown and described.

WILLIAM H. POOLE.

Witnesses:

GEORGE A. POOLE,
PATRICK GLEESON.