

(Model.)

3 Sheets—Sheet 1.

P. EVENS & L. A. WATERS.
LAUNDRY MARK STAMP.

No. 438,578.

Patented Oct. 14, 1890.

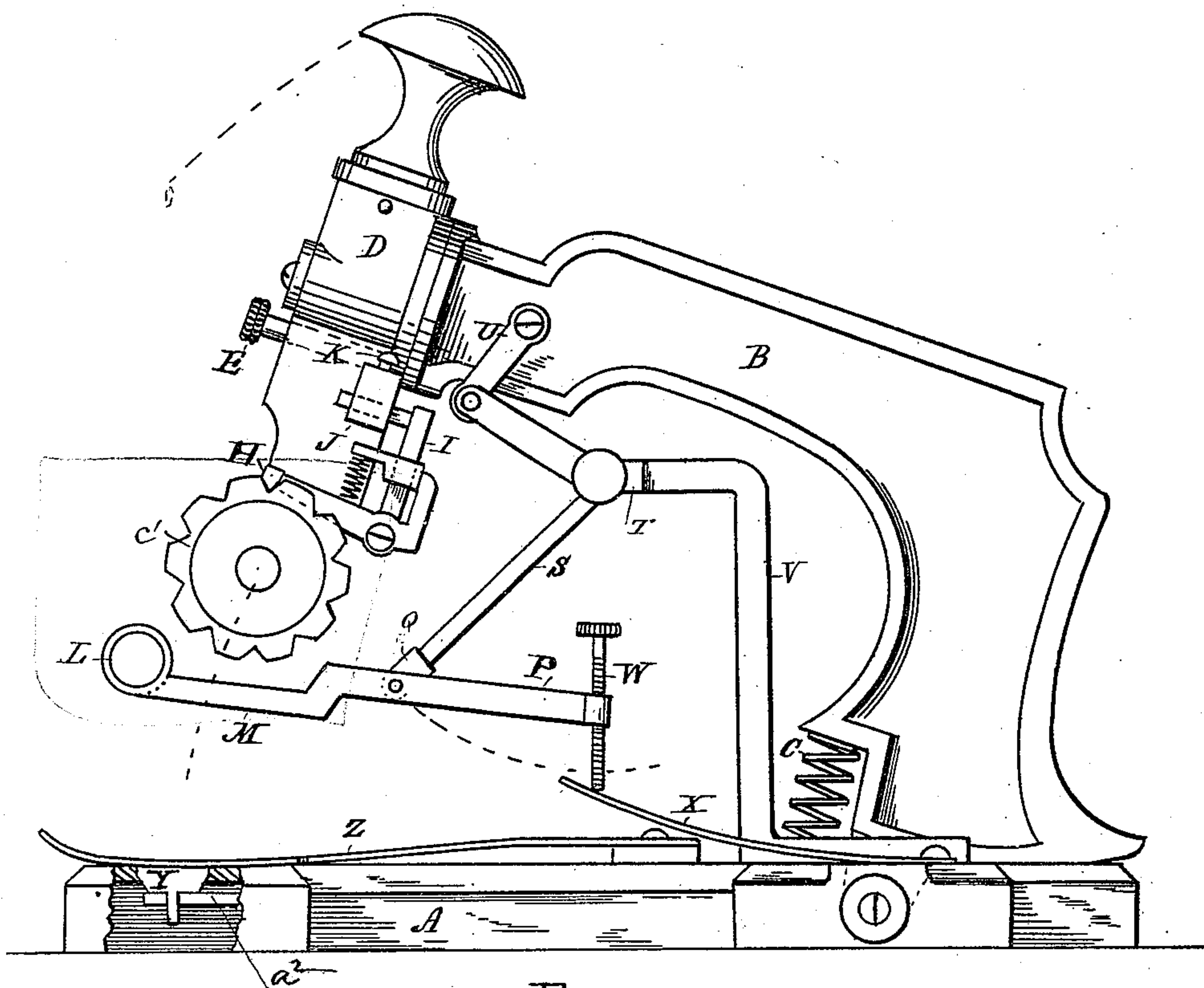


Fig. I.

Fig. 7.

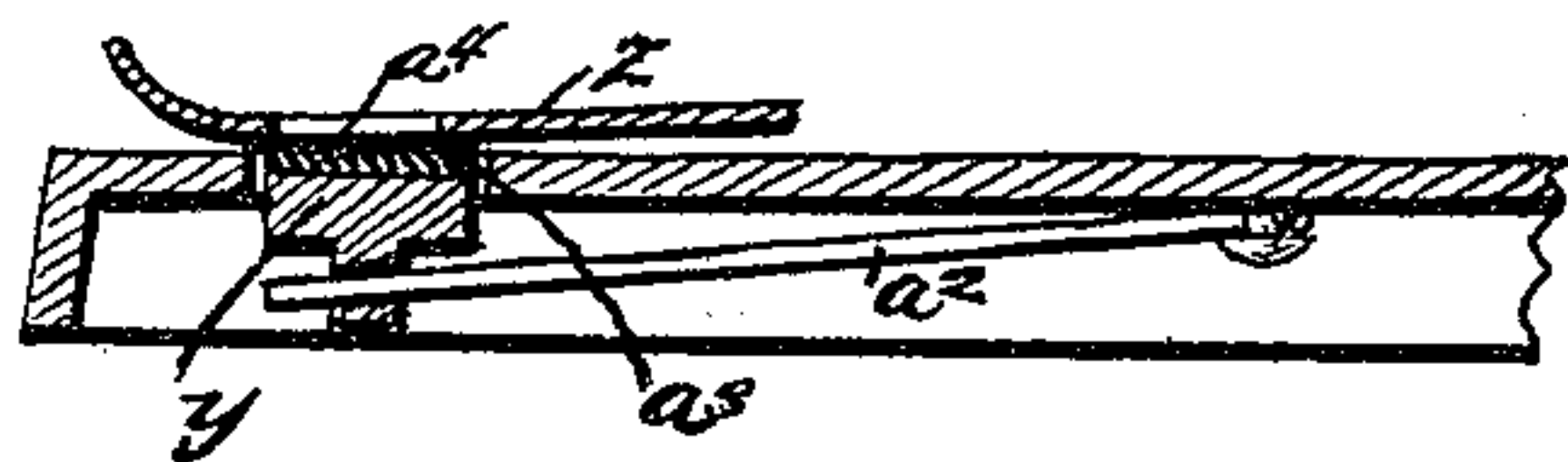
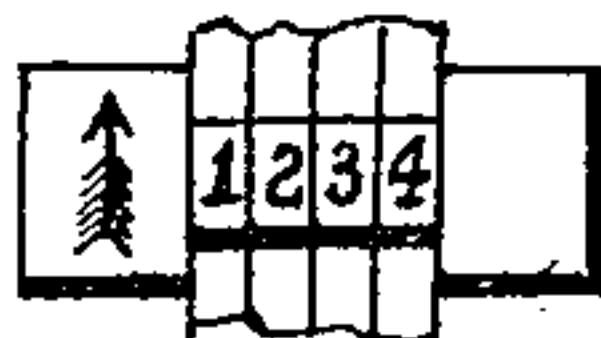


Fig. 8.



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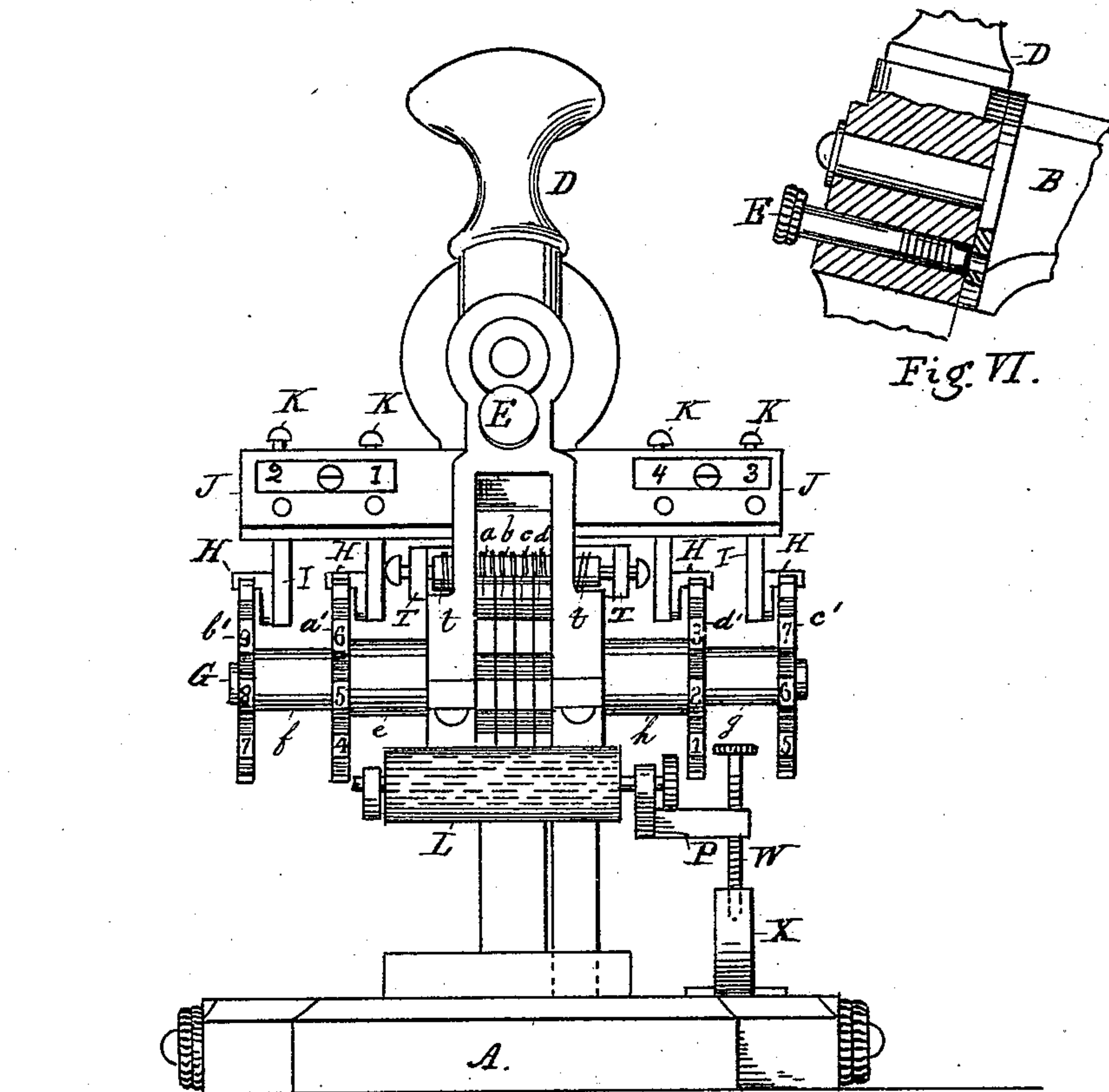


Fig. II.

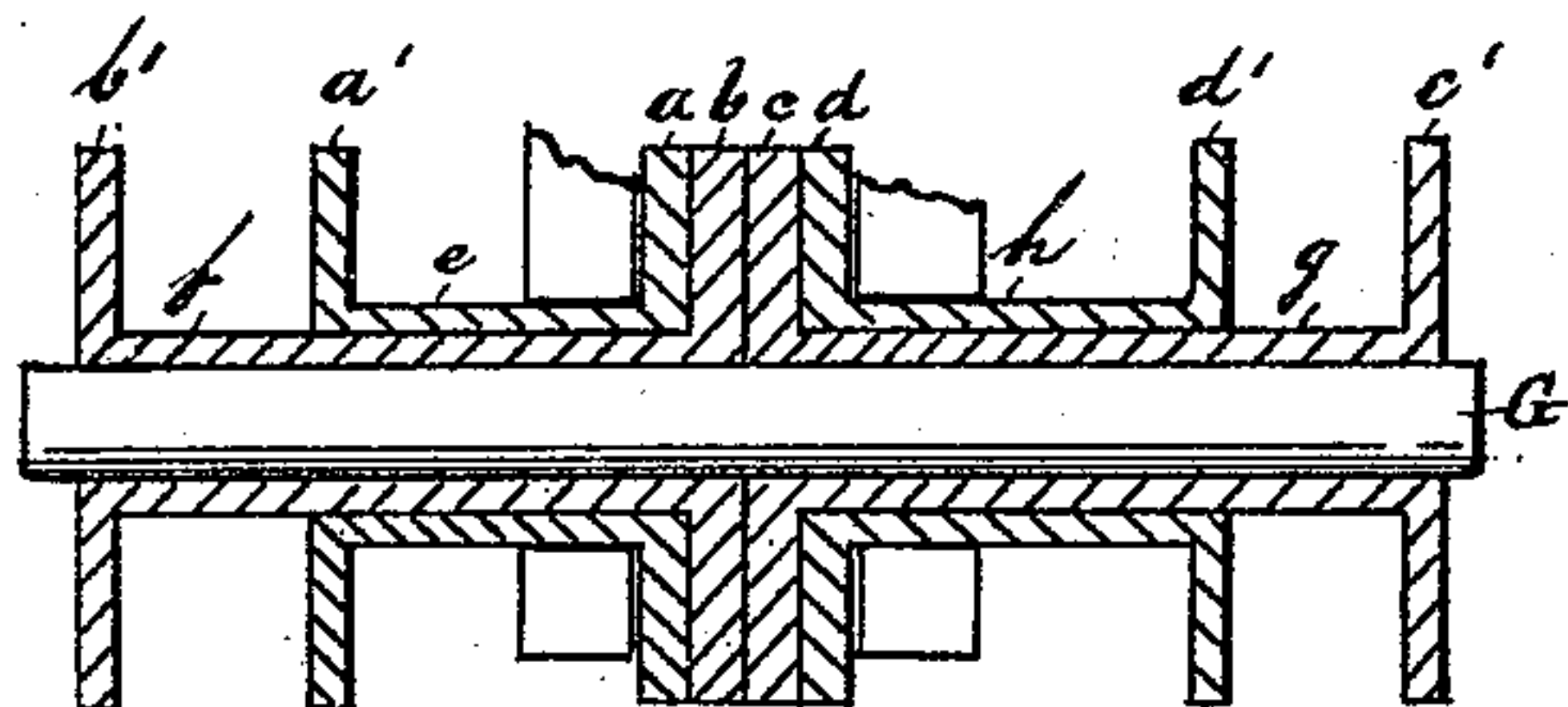


Fig. V.

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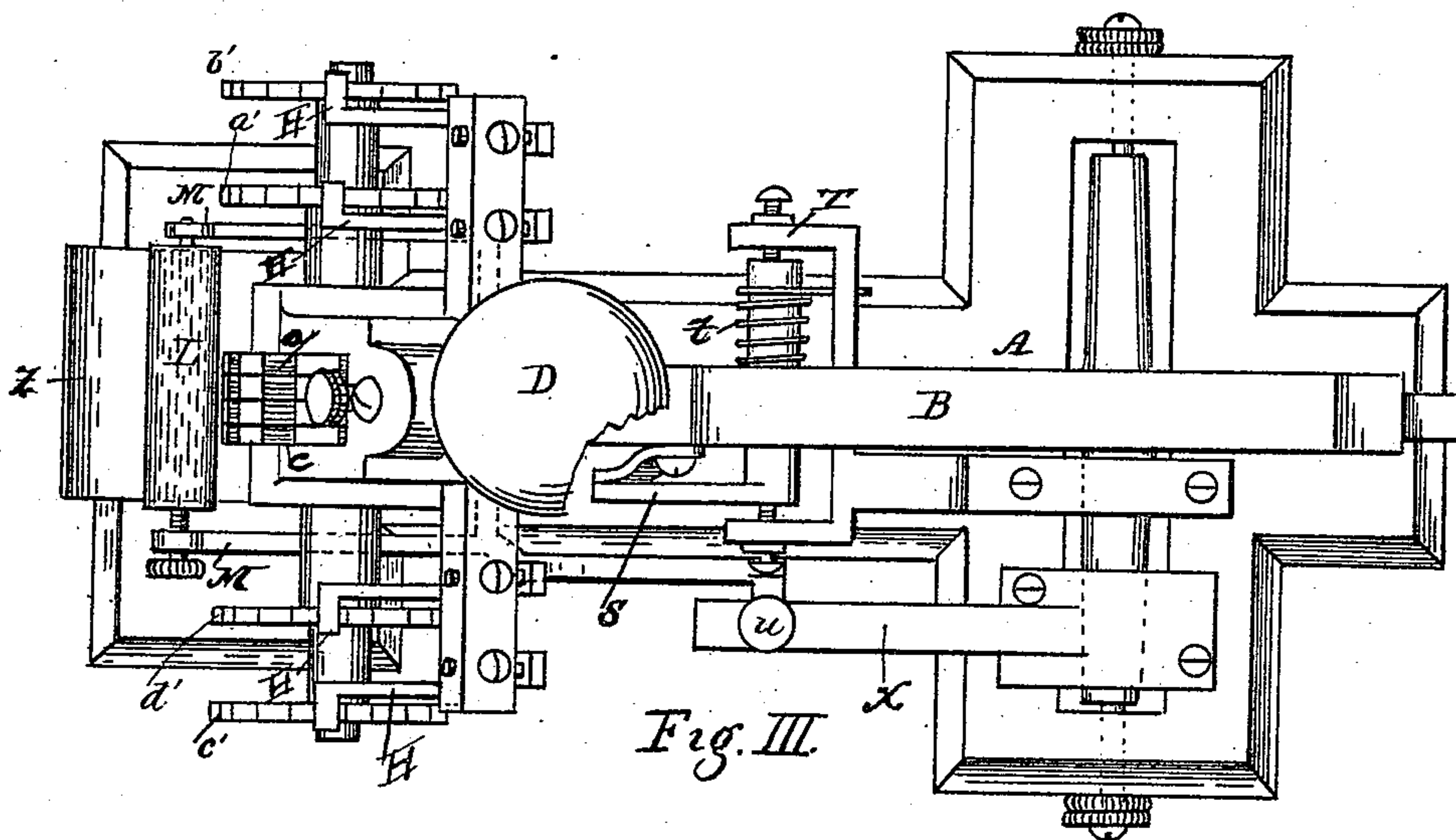


Fig. III.

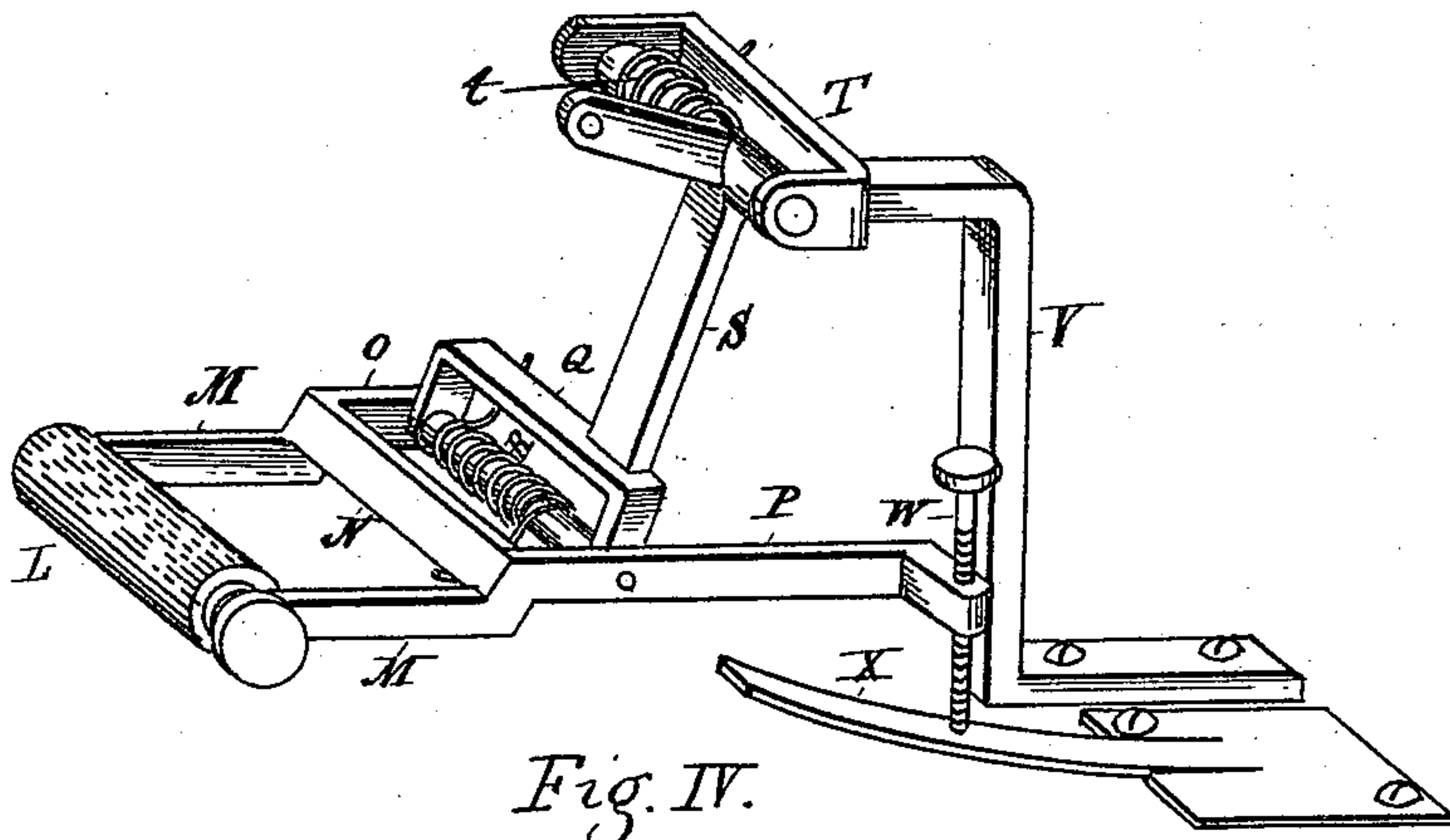


Fig. IV.

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UNITED STATES PATENT OFFICE.

PLATT EVENS AND LOUIS A. WATERS, OF CINCINNATI, OHIO.

LAUNDRY-MARK STAMP.

SPECIFICATION forming part of Letters Patent No. 438,578, dated October 14, 1890.

Application filed May 8, 1889. Serial No. 309,969. (Model.)

To all whom it may concern:

Be it known that we, PLATT EVENS and LOUIS A. WATERS, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Laundry-Mark Stamps, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of my improved laundry-mark printer; Fig. 2, a front view of the same; Fig. 3, a top view; Fig. 4, a perspective view of the mechanism of the inking apparatus; Fig. 5, a longitudinal section showing the hollow axles which connect the printing-wheels and their respective indicator-wheels; Fig. 6, a cross-section showing the pivotal connection of the swinging arm and the depending head. Fig. 7 is a detail in vertical central section through the base. Fig. 8 is a detail showing the trade-mark under the lower end of the head near the letter-wheels.

Our invention relates to improvements in machines designed to print or stamp numerals, letters, or marks of any description on textile fabrics, and its object is to provide a simple, durable, and efficient device which is well adapted to a variety of uses, and will be found especially useful and desirable for laundries, where it may be used to print any desired names, numbers, or other marks directly upon garments of every description or upon tags, which may be adjustably attached thereto.

The invention consists in the construction and novel combination of parts, hereinafter described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

The details will be understood by referring to the accompanying drawings, in which—

A designates the base of the machine, having a swinging arm B pivoted thereto and upheld normally by a spiral spring C.

A depending head D is pivoted on the free end of the arm and secured by a screw E. The lower end of the head is centrally slotted and incloses a series of four disks or type-wheels *a b c d*. (See Fig. 2.) These wheels are attached to independent hollow axles *e f g h*, which rotate upon each other and upon a central spindle G. (See Fig. 5.) The print-

ing-wheels have on their peripheries a consecutive series of numerals, capable of a combination reaching 9,999. Attached to the outer ends of the axles are duplicate wheels *a' b' c' d'*, which are also provided with numerals corresponding in series but not in position to those on the type-wheels. The difference in position will be hereinafter explained. The outer wheels serve as indicators to facilitate the adjustment of the printing-wheels. A series of indentures alternating with the numerals on the periphery of the indicator-wheels engage detents or dogs H, which are pivoted on brackets I, the upper limbs of which are adjustable in the arm J by set-screws K. By this arrangement the numerals on the type-wheels may be readily adjusted and kept in line.

An ink-roller L is pivoted on arms M, connected by an integral cross-bar N, having rearwardly a lug O and arm P, between which is pivoted a frame or bracket Q on a shaft having bearings in the arms of said bracket. The pivotal shaft is surrounded by a spiral spring R, the ends of which engage the cross-bar N and the clip-bar Q. A bell-crank lever S, having an integral shaft, is pivoted at its angle to and between the arms of a frame or bracket T and at its upper extremity to the link U, which is pivoted to the swinging arm B. The bracket-clip T is supported by an integral standard V, attached to the base of the machine. The spring *t* in the bracket T about the pivoted shaft of the lever S and the spring R in the bracket Q, operating on the lower portion of said lever, are designed to throw the inking-roller up against the letters when the head is raised.

The arm P has a right-angled extension provided with a regulating-screw W, which engages upon the inclined plane X and is adapted to adjust the pitch of the ink-roller.

At the end of a spring-rod *a*², attached to the base A, is a plug Y, fitting in a slot *a*³ in the base. This plug is faced with rubber *a*⁴ and adapted for the impact of the type when the device is operated. The platen-gage Z, which is fastened at its inner end to the top of the base A, has in its front end an L-shaped opening, and in the adjustment of the parts this opening comes directly over the rubber projecting through the slot *a*³. The inner an-

gle of the L-shaped opening indicates the position of the numeral on the type-wheel *a*, and the garment or tag may be readily adjusted in the right position accordingly.

5 The operation of the machine will now be described.

Referring to Fig. 5 it will be seen that owing to the arrangement of the hollow-axles the first printing-wheel *a*, counting from
10 left to right, is of necessity adjusted by the indicator-wheel *a'* on the same axle, the next in order *b* by the indicator *b'*, and so on through the series. The numbers 2 1 4 3, which are stamped on the arms J above the indicator-
15 wheels, (see Fig. 2,) indicate the relative positions of the two series of wheels. It will be understood that when the machine is prepared for operation the numerals on the printing-wheels which are in position for work are nec-
20 essarily on the lower peripheries of the wheels and consequently invisible. To obviate all inconvenience from this cause, the numerals on the indicator-wheels are diametrically opposite the position of the corresponding numerals
25 on the printing-wheels. By this arrangement any desired group of numerals may be quickly placed in position. If, for instance, it be desired to print the numeral 5 on wheel *a*, the indicator-wheel *a'* is turned until it shows the
30 numeral 5 immediately in front of the spring-dog. In other words, if the numerals 3 4 5 6 appear on the peripheries of the indicator-wheels 2 1 4 3 in the order named and in front of the dogs, the press will print the desired
35 combination.

The pivotal attachment of the head D to the arm B is designed to facilitate the cleaning of the type-wheels, which may be readily inverted for that purpose by withdrawing the
40 set-screw E.

The various advantages of this device will be obvious. It is compact, durable, and certain in its operation, saves time in marking goods, provides a method for keeping a record
45 of marks consecutively, and requires only ordinary care to operate it successfully.

What I claim as new is—

1. In a hand-stamp, the combination, with a base, swinging arm, and recessed head constructed substantially as described, of a
50 transverse spindle G, journaled in the recess of said head, the type-wheels *a b c d* in said recess, the indicator-wheels *a' b' c' d'*, connected to the corresponding type-wheels by sleeves mounted on the spindle G and upon each
55 other, the dogs H, formed to engage in notches in the peripheries of the indicator-wheels and pivoted on brackets I, the upper limbs of which are adjustable on arms J of the head, and suitable springs to cause said dogs to en-
60 gage said notches, substantially as specified.

2. In a hand-stamp, the combination, with a swinging arm and type-wheels connected therewith and moved thereby, of the arms M, connected by the cross-bar N and having ex-
65 tensions O P, the pivoted shaft journaled in and between said extensions, the inking-roller journaled in and between the outer ends of the arms M, the angle-lever with its upper arm connected by a link to the swinging arm
70 having at its angle a shaft journaled in a bracket T at the top of a standard rising from the base of the stamp and provided at its lower end with a bracket Q, pivoted on said pivotal shaft, and the springs R *t*, re-
75 spectively mounted on the pivotal shaft and angle-lever shaft, substantially as specified.

3. In a hand-stamp, the combination, with the swinging arm, type-wheels, and base, of the inking-roller, arms M, angle-lever, link U,
80 connecting the said lever and the swinging arm, the spring X, and the adjusting-screw W, substantially as specified.

In testimony that we claim the foregoing we have hereunto set our hands, this 15th day of
85 February, 1889, in the presence of witnesses.

PLATT EVENS.
LOUIS A. WATERS.

Witnesses:

WM. HENNKENS,
GEO. FRIES.