(No Model.) 2 Sheets—Sheet 1.

W. J. TOWRY & G. A. PICKUP.

HAND STAMP.

No. 457,432. Patented Aug. 11, 1891.

FIG. 5.

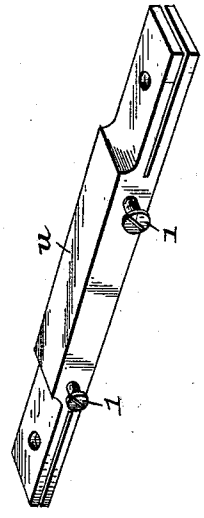


FIG. 4.

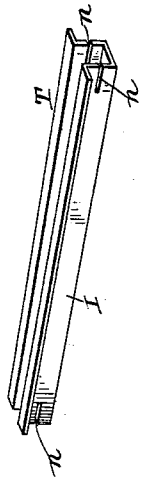
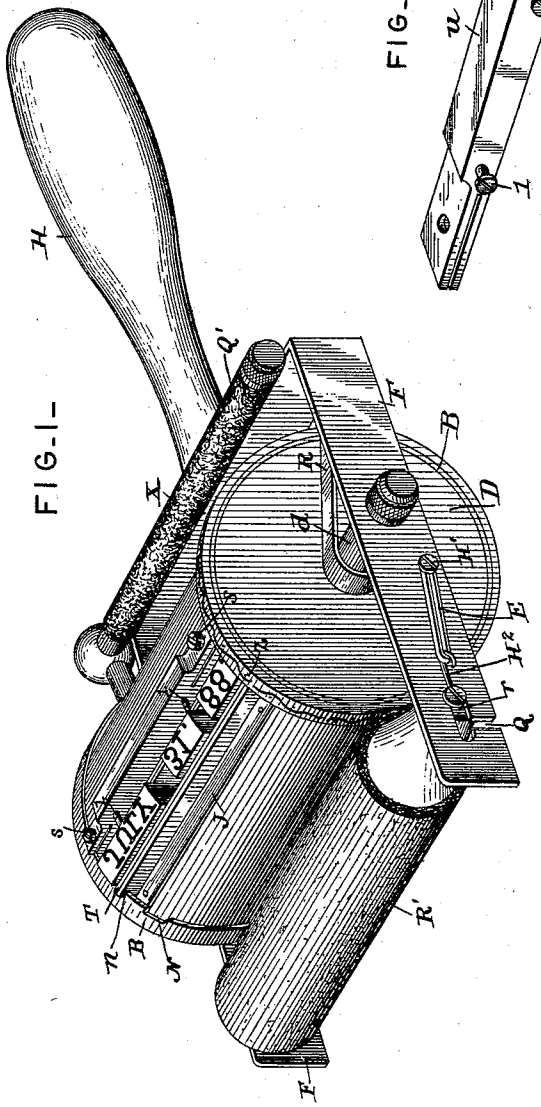


FIG. 1.



Witnesses

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(No Model.) 2 Sheets—Sheet 2.

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FIG. 2.

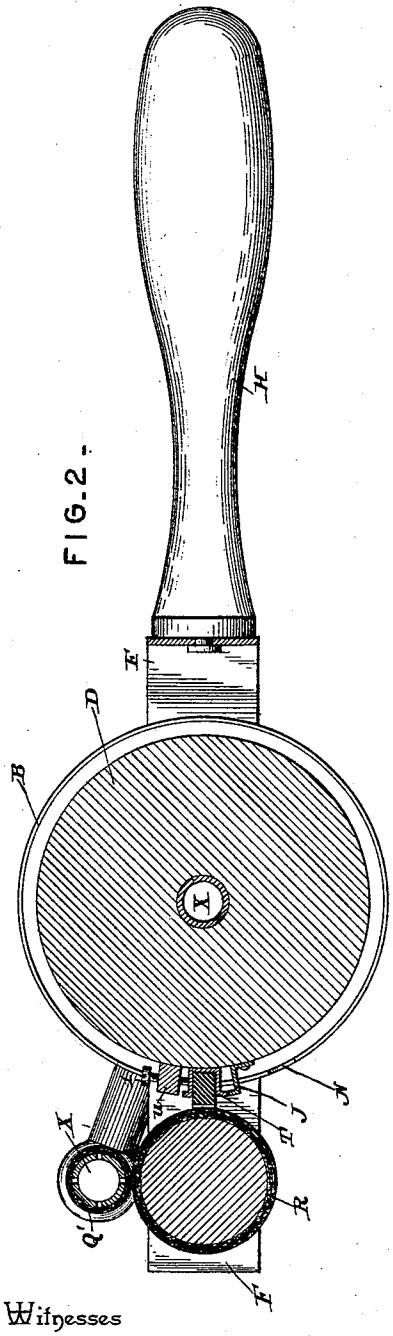
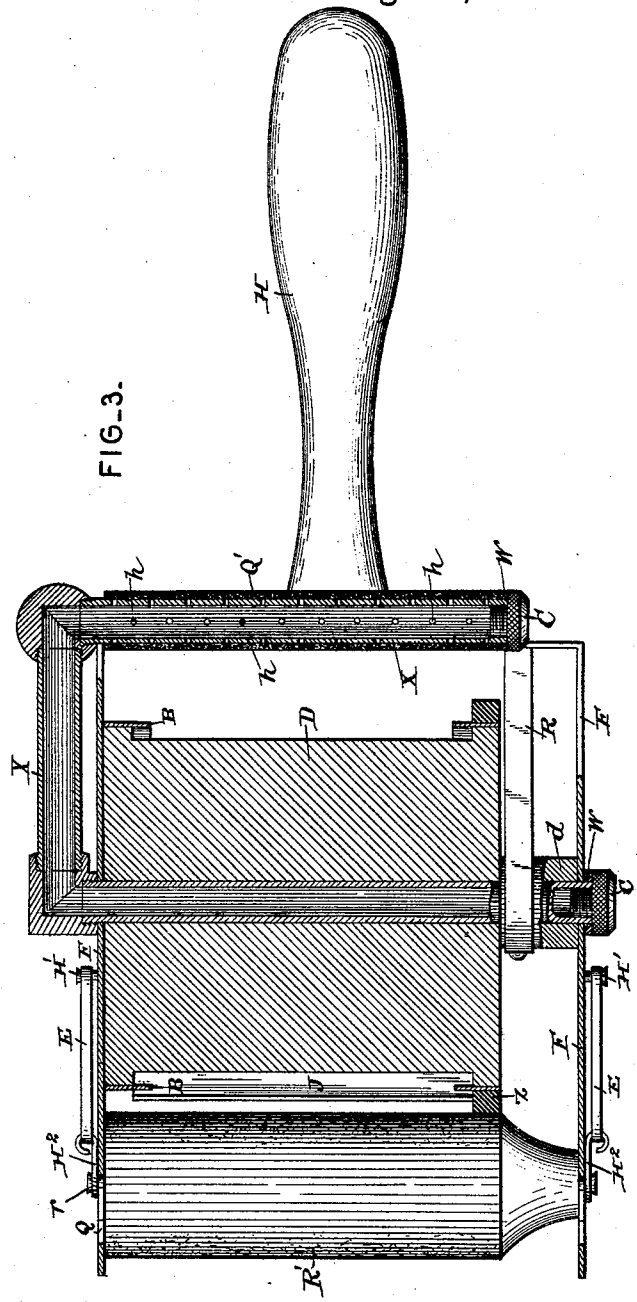


FIG. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM J. TOWRY AND GEORGE A. PICKUP, OF SHELBYVILLE, TENNESSEE.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 457,432, dated August 11, 1891.

Application filed September 19, 1890. Serial No. 365,509. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM J. TOWRY and GEORGE A. PICKUP, citizens of the United States, residing at Shelbyville, in the county of Bedford and State of Tennessee, have invented a new and useful Hand-Stamp, of which the following is a specification.

This invention relates to printing hand-stamps; and the object of the same is to effect improvements in devices of this same general character heretofore existing.

To this end the invention consists of the specific details of construction hereinafter more fully described, and illustrated in the drawings, in which—

Figure 1 is a perspective view of this improved stamp. Fig. 2 is a central longitudinal section thereof. Fig. 3 is a horizontal section. Fig. 4 is a perspective detail of one of the type-troughs. Fig. 5 is a perspective detail of the trough-clamping device.

Referring to the said drawings, the letter F designates the frame, which is of approximate U shape, and is provided with a handle H, and between the sides of this frame is pivoted a large drum D, having a hub *d* at one end inside the frame F.

R is a strong piece of elastic connected at one end to the frame and at the other end to said hub in such a manner that when the drum is rotated in one direction this elastic will wind upon the hub and return it to its normal position.

The face of the drum D is raised at each edge, and upon said raised portion is a flat band B, flush with the outer ends of the drum, but projecting inwardly a slight distance beyond the raised portion, and these bands are provided at a certain point with notches N, as shown in Fig. 1.

The letter T designates type-troughs, which are preferably of metal and are adapted to receive type having rubber bodies or having wooden bodies and rubber faces, and each trough when in position rests upon the face of the drum D, with the notches *n* in its ends engaging the inner edges of the bands B. The troughs also, preferably, have outwardly-turned edges I, or edges which taper to the bottom and which hold the type in place. The latter, which are of metal, wood, or rubber, or of any two materials, are put into the troughs in any well-known manner common in this art, after which the troughs are brought into position above the two notches N and are pressed down upon the drum and then moved along upon the face thereof, so that the small notches *n* in the ends engage the inner edges of the bands B and hold the troughs against displacement from the drum either longitudinally or radially. After the desired lines of printing-matter have been set up in a number of troughs and the latter are brought into place upon the face of the drum the trough-clamping device illustrated in Fig. 5 is brought into place beneath the lowermost trough, pressed upwardly until all the troughs are tight, and there secured. This trough-clamping device consists of a strip *u*, having bifurcated ends, and two screws *s*, which pass through the upper and lower ends of the strip near their extremities. Said extremities overlap and underlap the inner edges of the bands B, and when the screws *s* are tightened it is obvious that the upper and lower ends will be clamped upon the bands, whereby the whole device will be clamped upon the drum and the troughs held against circumferential displacement upon the drum. Two screws *l* pass transversely through the strip *u*, whereby after the strip is clamped upon the bands these screws can be turned to bind the troughs more tightly in place.

Each end of the frame F is provided with an L-shaped notch Q, wherein are removably journaled the shafts *r* of an inking-roller R'. Upon the outer ends of the shafts and sliding against the outer faces of said frame are two hooks H^2, and rubber bands E engage said hooks and pass also around other hooks H' in the sides of the frame, all as best seen in Fig. 3. The inking-roller is provided with a fabric or felt face, whereby the ink is partially absorbed and from which it is communicated to the type-faces as the drum revolves, each type having two contacts with an inked roller—that is, one with the roller in each direction. The rubber bands E draw the hooks H^2 and the shafts of the roller R' downwardly into the deep notches Q, whereby the roller is pressed upon the faces of the type.

In Fig. 3 is seen in section our improved ink-fountain X. This consists of a U-shaped

tube, one of whose arms forms the shaft of the drum D and passes through the two sides of the frame F. The other arm has a number of fine holes *h* therein, and is covered with felt Q′ or other absorbent material, and these arms are connected by the side arm of the fountain, which stands outside the frame, as shown in Fig. 1. Both ends of this tube are open, and screw-threaded caps C, with rubber washers W beneath them, close such open ends. In this way the fountain may be filled from either end or can be washed out by removing both caps and passing water through it. When turned back upon the handle, as seen in Fig. 1, no ink will flow from the fountain; but when the latter is turned forward the felt Q′ communicates ink to the roller R, as will be clear.

The letter J designates a block, which is less than type-high, and which is fixed upon the face of the drum D above the upper trough, although it will be understood that two of the trough-clamping devices may be used and this block omitted, if preferred. Large cuts, which may be either all of rubber or rubber-faced wooden bases or otherwise, may be used, and various other changes may be made without departing from the spirit of our invention.

At the left-hand end of the drum (shown in Fig. 1) is illustrated a removable elastic border-band Z, which may sometimes be used when it is desired to print a border along each side of the matter printed by the type. These bands, it will be understood, are of rubber and fit tightly upon the flat bands B, and their height is such that when in place their outer or printing faces will be just flush with the faces of the type in the troughs. A variety of these bands may be sold with each stamp and will greatly enhance the value of the same.

What is claimed as new is—

1. In a hand-stamp, the combination, with a frame and a drum journaled therein, said drum having raised edges and flat bands secured upon said edges and extending inwardly beyond the same, oppositely-disposed notches being provided at a certain point in said bands, of type-holding troughs equal in length to the distance between the inner faces of said raised edges, notches in the ends of said troughs adapted to engage the inner edges of said bands, and means for clamping said troughs in place, as set forth.

2. In a hand-stamp, the combination, with a frame and a drum journaled therein, said drum having raised edges and flat bands secured upon said edges and extending inwardly beyond the same, of type-holding troughs resting upon the face of said drum with their ends engaging the inner edges of said bands, and a trough-clamping device comprising a strip having bifurcated ends standing, respectively, above and below the inner edges of said bands, and screws passing through said upper and lower ends inside the inner edges of the bands, as and for the purpose set forth.

3. In a hand-stamp, the combination, with a frame and a drum journaled therein, said drum having raised edges and flat bands secured upon said edges and extending inwardly beyond the same, of type-holding troughs resting upon the face of said drum with their ends engaging the inner edges of said bands, and a trough-clamping device comprising a strip having bifurcated ends standing, respectively, above and below the inner edges of said bands, screws passing through said upper and lower ends inside the inner edges of the bands, and tightening-screws *l* passing transversely through said strip, as and for the purpose set forth.

4. In a hand-stamp, the combination, with the frame F, the type-drum D, journaled therein, and the ink-roller R, also journaled therein and bearing against the type on said drum, of the U-shaped hollow ink-fountain X, one of whose arms passes through the center of said drum and the other of which is perforated and covered with felt resting against said roller, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

WILLIAM J. TOWRY.
GEORGE A. PICKUP.

Witnesses as to William J. Towry:
WM. H. GRAHAM,
J. A. JOHNSON.

Witnesses as to George A. Pickup:
ERNEST CALDWELL,
EUGENE E. RIVES.