W. MORSE & J. HUGHES.

HAND STAMP.

No. 20,922. Patented July 13, 1858

Fig. 1.

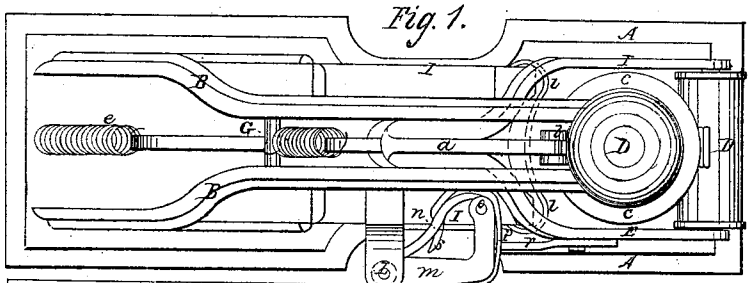


Fig. 3.

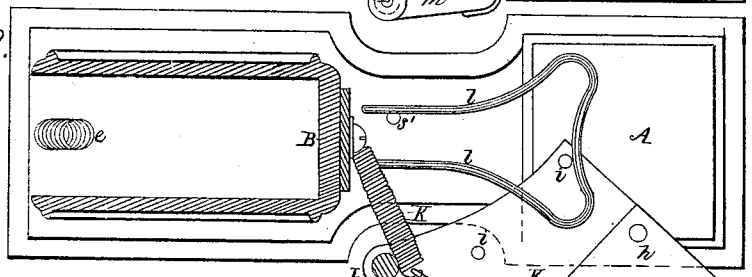
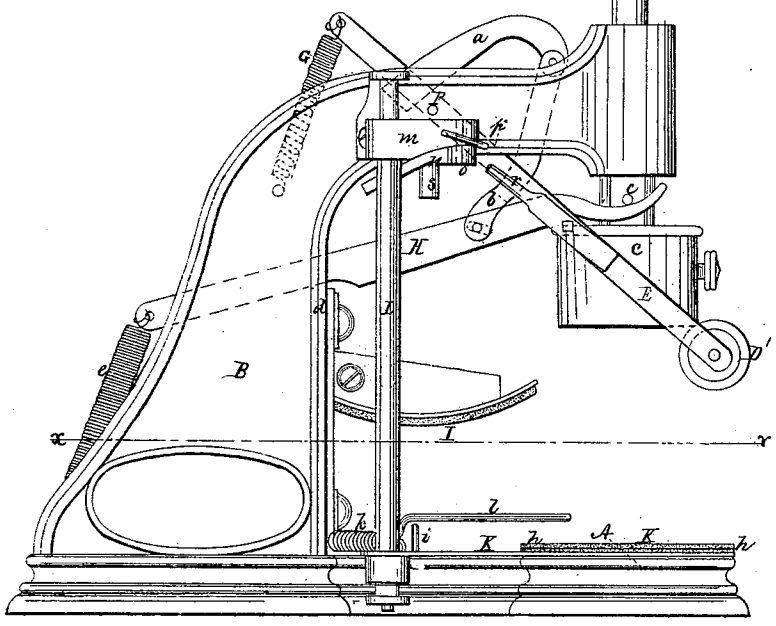


Fig. 4.

Fig. 5.

Fig. 2.



UNITED STATES PATENT OFFICE.

W. MORSE AND J. HUGHES, OF BOSTON, MASSACHUSETTS, ASSIGNORS TO GEORGE H. DEVEREUX, A. F. DEVEREUX, O. W. BARRETT, AND E. E. BARRETT, OF SALEM, MASSACHUSETTS.

HAND-STAMP.

Specification of Letters Patent No. 20,922, dated July 13, 1858.

To all whom it may concern:

Be it known that we, WILLIAM MORSE and JOHN HUGHES, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Hand-Stamps or Presses, and Particularly in Those which are Self-Inking; and we do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, denotes a top view of a self inking hand stamp furnished with our invention. Fig. 2, a side elevation of it. Fig. 3, a horizontal section taken on the line *x*, *x*, of Fig. 2.

The nature of our invention consists in combining with the bed and stamp or printing mechanism a letter "cast off" or device or mechanism for discharging a letter or its equivalent from or from over the bed, after such letter may have been stamped.

In the drawings, A, denotes the bed furnished with a curved standard B, for carrying the supporting rod D, of the stamp C, and also for giving support to the inking roller and the mechanism for operating the same.

D′, is the inking roller which is supported within a bifurcated lever, E, which works on a fulcrum at F, and has a spring G, connecting its rear end with the standard B, as shown in the drawings. An arm *a*, extends upward from the said lever, and is jointed to a connecting link, *b*, which at its lower end is jointed to a forked lever, H, the whole being arranged as shown in the drawings. The said lever, H, straddles the rod, D, and extends directly underneath a pin, *c*, projecting from each side of the rod, D. The lever H, rests on a bearing at, *d*, and has its rear end connected with the base plate by a spring, *e*, as shown, in the drawings. Such is the apparatus for operating the inking roller and moving it from the face of the stamp to a curved inking surface, I, or vice versa during the vertical movements of the stamp, C, that is to say, when a person strikes on the top of or presses downward the rod, D, so as to move the stamp, C, toward the bed, the inking roller will be carried across the face of the stamp and upon the inking surface, I, the motion of the roller being reversed, while the stamp is being raised upward.

On the bed, A, is a false bed or "cast off" K, which consists of a plate formed as shown in Figs. 2, and, 3, and having an elastic cushion, *h*, and two or any other suitable number of projections, *i*, *i*, the same being arranged on its upper surface, as shown in the drawing. This plate or cast off projects from a vertical shaft, L, and has a retracting spring, *k*, extending from it to the standard, B, as shown in Figs. 2, and 3. A guide wire or guide, *l*, rises from the bed and over it and the cast off, K, as shown in Figs. 2, and 3. From the upper part of the shaft, L, an arm, *m*, extends horizontally and carries a tripper, *n*. This tripper consists of a bent lever whose form is exhibited in top view and in side elevation in Figs. 4, and 5. It turns horizontally on a pivot, *o*, projecting downward from the arm, *n*, and has a retractor spring, *p*, which presses against its inner surface and extends from the arm, *m*, as shown in Figs. 1, and 3. This tripper is operated by a projection, *r*, extended from the lever, E, that is to say during the downward movement of the stamp, C, the projection, *r*, will be carried in contact with the part or cam, *s*, of the tripper and so as to cause such a movement of the tripper as will enable the projection *r*, to pass by the part, *s*, and into its rear. During the upward movement of the stamp, C, the projection, *r*, will be thrown quickly against the rear surface of the part *s*, and so as to cause the tripper and its arm, *m*, to be moved suddenly in a manner to rotate the shaft, L, and of course turn or move the cast off, K, outward as shown in Fig., 3. As soon as the projection, *r*, may pass beyond the cam or part, *s*, the spring, *k*, will bring or move the cast off K, back to place or against a stop, *s*′, see, Fig. 3, all this being accomplished so suddenly as to cause the cast off to discharge from itself or the bed, a letter which may have been placed thereon and stamped.

In using this machine, an attendant with his left hand should place the letter or article to be stamped on the cast off and against the stops *i*, *i*. Next, with his right hand he should force downward the rod, D, of the stamp, C, his left hand while so operating the stamp being free to take up another letter or article, each letter as fast as it is stamped being discharged or thrown from its position over the bed.

Our invention is intended to facilitate the operations of post stamping letters in a post office.

What we claim is—

1. Combining with the stamping, mechanism, a cast off mechanism for discharging the letter or article to be stamped from the bed, or the cast off over the same.

2. We also claim combining the pad or cushion, *h*, with or arranging it directly upon the cast off or plate K, thereof substantially as specified.

3. We also claim the combination for operating the cast off, the same consisting of the arm *r*, the tripper, *n*, the arm, *m*, the shaft, L, and the spring *k*, the same being arranged and made to act together essentially as specified.

In testimony whereof we have hereunto set our signatures.

WM. MORSE.
JOHN HUGHES.

Witnesses:
R. H. EDDY,
A. F. DEVEREUX.