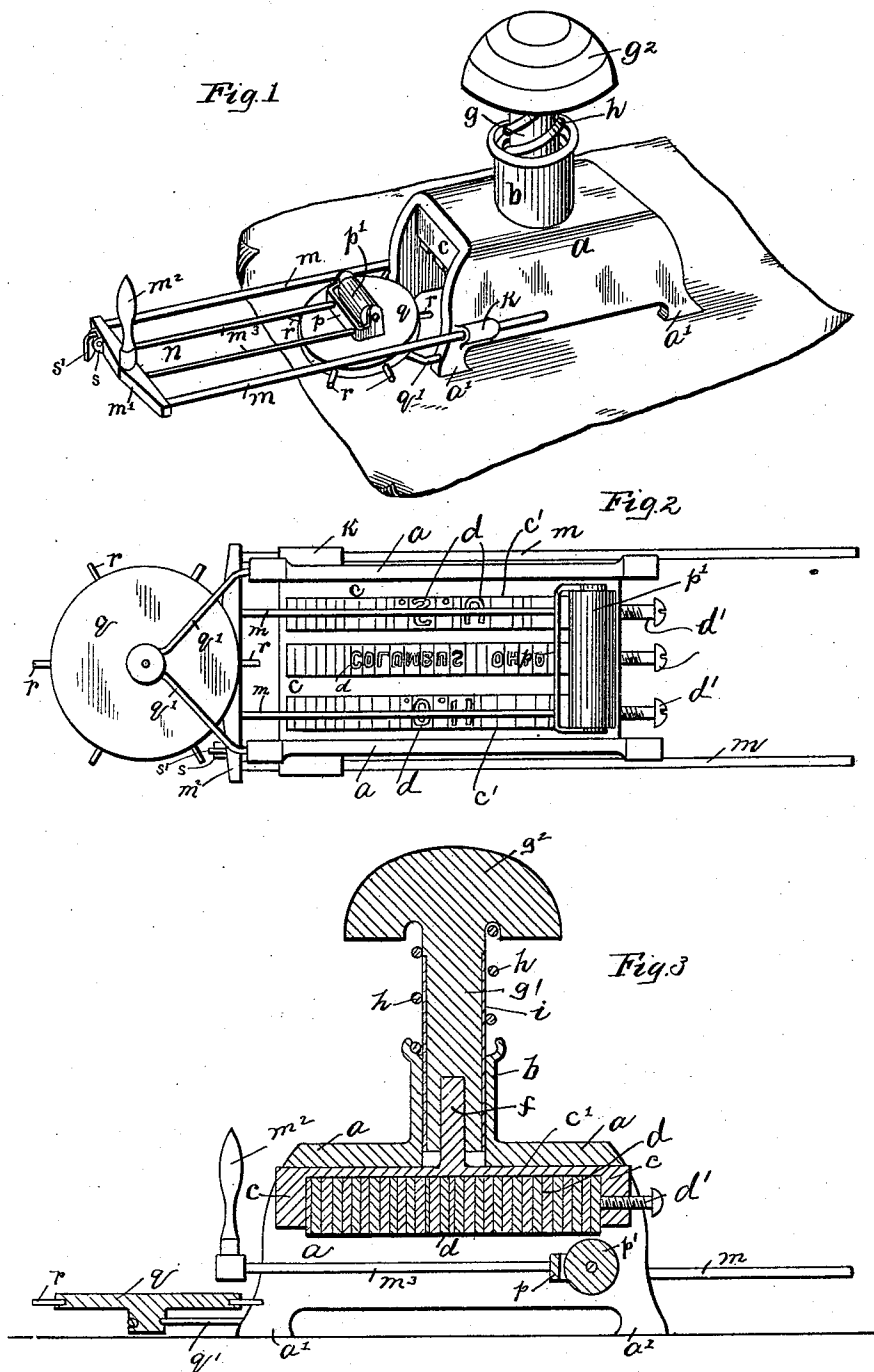


(No Model.)

J. BUFF.
HAND STAMP.

No. 486,080.

Patented Nov. 15, 1892.



WITNESSES:

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HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 486,080, dated November 15, 1892.

Application filed September 22, 1890. Serial No. 365,796. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH BUFF, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Hand-Stamps, of which the following is a specification.

My invention relates to the improvement in hand-stamps of that class wherein a spring-actuated printing block or form is adapted for use in producing printed impressions by pressure of the hand.

The objects of my invention are to provide an improved hand-stamp of this class of such construction as to admit of the use of ordinary metallic interchangeable type, to provide in connection therewith an ordinary inking-roller and an automatically-rotated ink-supply plate, and to construct my improved hand-stamp in a simple and comparatively-inexpensive manner. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of my improved hand-stamp in position for printing. Fig. 2 is a bottom view of the same, showing the inking-roller upon the type-faces; and Fig. 3 is a central vertical section of the same.

Similar letters refer to similar parts throughout the several views.

a represents the body or frame of my improved hand-stamp, which is approximately in the form of a channeled block and is provided at each corner with suitable supporting-legs *a'*. This frame *a* is provided on its upper side with a tubular projection or neck *b*, which, as shown, surrounds a top opening in said frame.

c represents a type-chase or printing-block of such shape as to fit loosely between the sides of the frame *a* and abut against the under side of the frame-top. This chase or printing-block is provided on its under side with two or more parallel type-grooves or longitudinal sockets *c'*, which are adapted to receive the types *d* and allow the printing-faces of the latter to project, as shown, below said chase. The types thus inserted in the chase are held in place by suitable set-screws *d'*, which pass, as shown, through screw-holes formed in one end of the chase and serve by pressure against the types or quads at the

ends of the rows to clamp said types firmly in place.

Formed with the upper side of the chase *c* is a vertical stem *f*, which projects within the larger frame-neck *b*. This chase-stem *f* is fitted rigidly within a socket formed in the lower end of the vertical stem *g'* of the stamp-handle *g*, which extends within the frame-neck *b*. This stamp-handle *g* is provided on its upper end with a suitable button or flanged head *g*².

h represents a coiled spring, which surrounds the stamp-handle stem and bears between the under side of the stamp-handle head and the flaring upper end of the frame-neck. The tension of this spring is such as to normally hold the stamp-handle elevated and its chase in contact with the under side of the frame-top.

In forming the stamp-handle stem I preferably provide a metallic case therefor, as shown at *i* in Fig. 3.

Formed on the outer sides of the frame *a*, and at opposite points adjoining one end thereof, are projecting keepers or guideways *k*, which, as shown, are adapted to support and form guideways for the parallel side rods *m* of a sliding ink-roller frame *n*. The outer ends of these side rods *m* are connected by a suitable cross-piece *m'*, which, as shown, is provided with a central upwardly-extending finger-piece *m*². Extending inwardly from said end piece *m'* and running parallel with the said rods *m* are two roller-supporting rods *m*³. These inking-roller-supporting rods have their inner ends connected by a transverse U-shaped frame-piece *p*, between the forwardly-projecting arms of which is journaled the central shaft or core of a transverse ink-roller *p'*, which is preferably formed of the ordinary ink-roller composition.

q represents a metallic inking-disk, the short central and downwardly-projecting stem of which is journaled or pivotally supported in the angle of an approximately-V-shaped supporting frame or rod *q'*, which projects outwardly from the end of the stamp-frame *a* and beneath the sliding frame *n* and has the ends of its arms secured to the forward sides of the frame-legs *a'*. In this manner the inking-disk is held at such elevation as to cause the roller *p'* to travel over and in

contact with the upper face of said disk when the roller-frame is drawn backward and forward, as hereinafter described.

The inking-disk *q* is, as shown in the drawings, provided on its periphery at equidistant points with spurs or pins *r*. Projecting from the outer side of the end cross-piece *m'* of the roller-frame, near one end thereof, is a bifurcated lug *s*, between the arms of which is pivoted one end of a short trigger *s'*.

The operation of the herein-described stamping-press is as follows: The desired types having been secured as hereinbefore described within the chase, and the upper surface of the inking-disk having been supplied with ink, the printing-faces of the types may be inked by forcing inward the inking-roller frame or carriage, causing its side rods *m* to slide through the guideways *k* and its roller *p'* to travel over the inking-plate and thence inward against the printing-faces of the types. The inking-roller carriage is then drawn back until its roller is upon or slightly beyond the inking-disk, when the stamp-handle *b²* may be forced downward by a quick blow of the hand until the printing-faces of the types are in contact with the surface of the paper previously inserted beneath the stamp-body. The tension of the spring *h* will then operate to draw the printing-block or chase back to its normal position. In drawing outward the inking-roller carriage it will be observed that the depending trigger *s'* will, by contact with one of the projecting spurs *r* of the inking-disk, cause a partial rotation of said disk. By thus shifting the inking-disk the inking-roller at its next inward movement is made to travel over said disk at a different angle, resulting in the ink being taken up uniformly from the surface of the disk. The trigger *s'* being pivoted, it will be seen that its contact with the spurs *r* as the frame *n* travels inward will result in the trigger being raised outward and upward and in its being allowed to drag over the spur without imparting movement to the disk. This swinging movement of the trigger is, however, prevented on the return of the ink-roller frame, owing to the contact of said trigger and the inner side of the supporting-lug.

The herein-described form of stamp will admit of the use of ordinary printing-ink and metallic types, the latter being interchangeable, as desired. As the result of this use

and construction, it is evident that a plain and sharp print may be produced, which presents a much neater appearance than that produced by the ordinary rubber stamp.

It will be seen that by the use of the inking device herein described the ink will be uniformly distributed over the type and the inking process quickly accomplished.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a hand-stamp, the combination, with a frame one end of which is provided with guides, of a vertically-movable chase mounted in the frame, an inking-plate at one end of the frame, two longitudinally-movable parallel rods mounted in the guides of the frame, and an ink-roller secured to the rods and movable from the plate to the chase, substantially as set forth.

2. In a hand-stamp, the combination, with a frame provided with guides and a vertically-movable chase, of a rotatable inking-plate secured at one end of the frame provided with projections, a longitudinally-movable frame mounted in the guides of the main frame, an inking-roller mounted in the movable frame, said roller being adapted to be reciprocated from the plate to the chase, and a detent pivotally secured to the outer end of the movable frame, adapted to engage with the projections of the inking-plate and rotate it, substantially as set forth.

3. In a hand-stamp, the combination, with a stamp-frame provided with guides and a vertically-movable chase, of a substantially-V-shaped supporting frame or rod projecting outwardly from the end of the stamp-frame, an inking-plate provided with a central downwardly-projecting stem pivotally secured in the angle of the supporting-frame, a longitudinally-movable frame mounted in the guides of the stamping-frame, and an inking-roller mounted in the movable frame, said roller being adapted to be reciprocated from the plate to the chase, and said movable frame being provided with means for engaging with and operating the inking-plate, substantially as set forth.

JOSEPH BUFF.

In presence of—

C. C. SHEPHERD,
BARTON GRIFFITH.