W. H. DODSON.

HAND STAMP.

APPLICATION FILED NOV. 11, 1912.

1,142,240. Patented June 8, 1915.

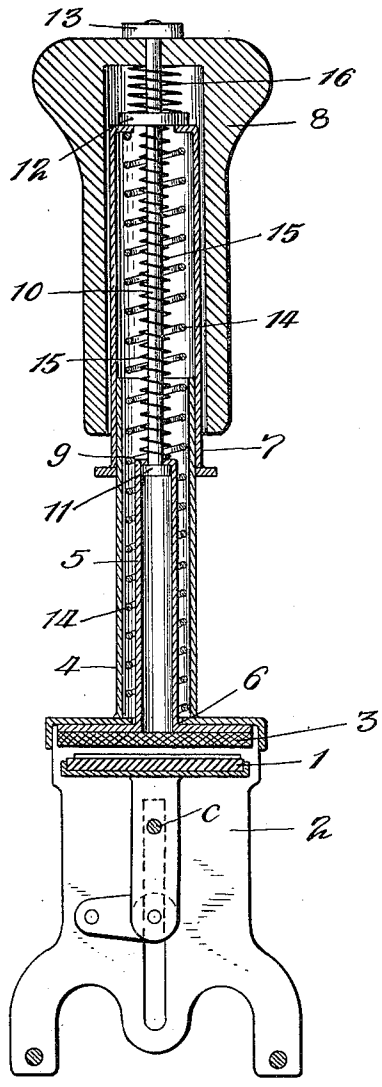


Fig. 1.

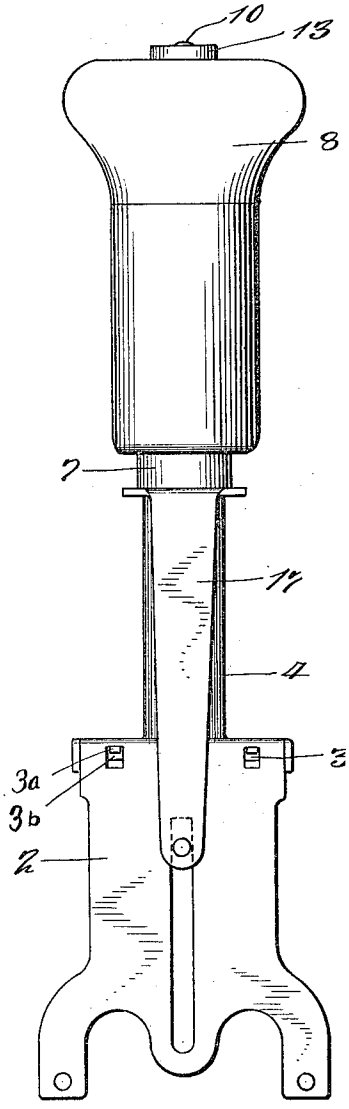


Fig. 2.

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UNITED STATES PATENT OFFICE.

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HAND-STAMP.

1,142,240. Specification of Letters Patent. Patented June 8, 1915.

Application filed November 11, 1912. Serial No. 730,583.

To all whom it may concern:

Be it known that I, WILLIAM H. DODSON, a citizen of the United States, residing in the city of New York, borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Hand-Stamps, of which the following is a full, clear, and exact specification.

My invention relates to certain new and useful improvements in hand stamps and has for its object, the production of a stamp having a high degree of efficiency and durability, and especially to the provision of means for holding inking-pad normally out of contact with the stamping die, and for permitting its contact therewith only momentarily and just before the stamping operation is performed.

One form of my invention is illustrated in the accompanying drawings forming part of this application and in these drawings, Figure 1 is a sectional view of a hand stamp, showing the parts in their normal position, and Fig. 2 is a side elevation in full line. As will be readily understood from these drawings, my invention is applicable to all kinds of stamping apparatus, but for convenience of illustration I have shown it in connection with a hand stamp of well known character, wherein the stamp element or printing head is normally held face upward, and by the depression of the handle is caused to reverse its position before making the impression. The reversing mechanism is not shown, as it forms no part of my invention and is of well known character.

Describing my invention and referring to the drawings the numeral 1 indicates a printing head or stamp member of well known character. This printing head is mounted in a frame 2, which is provided with an inverted recess, in which the inking-pad 3, is normally housed, said pad having lugs 3^a formed thereon and positioned within the apertures 3^b. The frame 2 is provided with a cylindrical member 4 upon which the operating handle reciprocates, and within cylinder 4 a smaller cylinder 5 is provided, the lower end of which is permanently connected to an inking-pad where it passes through the aperture 6 in the frame. A third cylinder 7, of a diameter to fit snugly over the cylinder 4, and which slides easily thereon, is also employed and a handle 8, having an internal bore sufficiently large to allow it to slide over the cylinder 7, is also provided. The upper end of the smaller cylinder 5 is contracted as at 9 and through an aperture in this contracted end a rod 10, having a head 11, passes.

The upper end of rod 10 is threaded, and threaded nut 13 is adapted to be screwed thereon in the position shown, a washer 12 being slidably mounted on said rod. Springs for returning the parts to their normal position are provided, including the spring 14, the lower end of which bears upon the top of the frame within the cylinder 4 and surrounding the cylinder 5, and its upper end bearing against the contracted upper end of the cylinder 7. Spring 15 is located with its lower end bearing upon the upper end of the sleeve 5, and its upper end upon the underside of the washer 12, while the spring 16 has its lower end bearing upon the upper side of the washer 12, and its upper end against the underside of the recess wall in the handle 8.

The operation of my device will be readily understood from the foregoing and from an examination of the drawings. As shown in Fig. 1, the parts are in normal position, the printing head upturned and the inking-pad slightly above the same but out of contact with it. Upon applying downward pressure to the handle, the spring 16, which is comparatively weak, is compressed, and on continuing the pressure on the handle, the rod 10 is forced downwardly and carries with it the inking-pad which is forced against the printing head with a yielding pressure, which is regulated by the strength of the spring 15.

On continuing the downward movement of the handle, the arms 17, which control the printing head reversing mechanism, are forced downward, thus withdrawing the printing head from the inking-pad, the further downward movement of the inking pad being limited by the lugs 3^a abutting the lower edges of the apertures 3^b, and causing an impression to be made, the downward pressure of the handle being resisted by the tension of all three springs, which however is not excessive, but is sufficient to accomplish the purpose.

It is obvious that many modifications and changes may be made in my invention, without departing from the essential fea-

tures contained therein, and I do not wish to limit myself to the exact details described, but—

What I claim as new herein and desire to secure by Letters Patent is:

1. A stamping apparatus comprising a frame, a movable printing head mounted therein, an inking-pad movable in the plane of movement of the printing head and normally out of contact of the said printing head and means for forcing the inking-pad into contact with said printing head and further operable in the same direction for causing the printing head to be brought into contact with the object upon which the impression is to be made by a single operation.

2. A hand stamp comprising a frame, a movable printing head mounted therein, an inking pad mounted in proximity to said printing head movable in the plane of movement of said printing head and normally out of contact therewith, and means initially operable to move said inking pad into contact with said printing head, the continued operation of said means in the same direction actuating said printing head.

3. A hand stamp comprising a frame, a movable printing head mounted therein, an inking pad movable in the plane of movement of said printing head and normally out of contact with said printing head, a handle operatively connected to said printing head and to said inking pad, and means whereby the initial movement of said handle will bring said inking pad into contact with said printing head, and whereby the continued movement of said handle in the same plane will operate said printing head.

4. A hand stamp comprising a frame, a movable printing head mounted therein, an inking pad movable in the plane of movement of said printing head and normally out of contact with said printing head, a handle operatively connected to said printing head and to said printing pad, means whereby the initial movement of said handle will bring said inking pad into contact with said printing head, and whereby the continued movement of said handle in the same plane will operate said printing head, and automatic means for returning the parts to their normal positions.

5. A hand stamp comprising a supporting frame, a movable reversible printing head mounted therein, an inking pad of approximately the same area as said printing head, movably mounted within said frame, and normally out of contact with said printing head, a handle operatively connected to said printing head and to said inking pad, means whereby the initial movement of said handle will bring said inking pad into contact with said printing head, and whereby the continued movement of said handle in the same direction will operate said printing head, and means for returning the parts to their normal positions.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM H. DODSON.

Witnesses:
WM. C. DUNN,
LILIAN MALZER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."