H. S. FOLGER & C. L. REDFIELD.

SELF INKING HAND STAMP.

APPLICATION FILED MAY 23, 1914.

1,166,667.

Patented Jan. 4, 1916.

2 SHEETS—SHEET 1.

Fig. 1

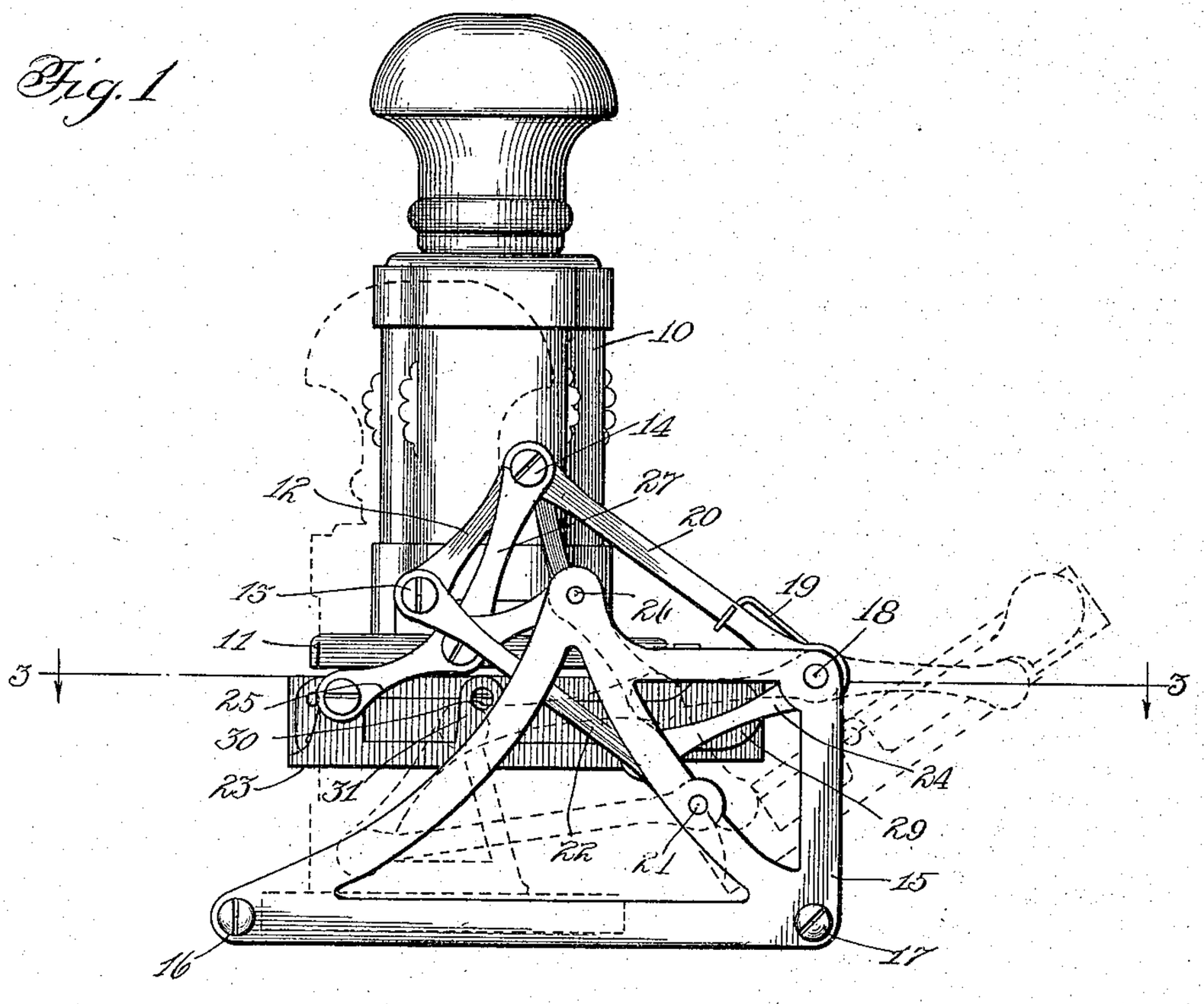

Fig. 2

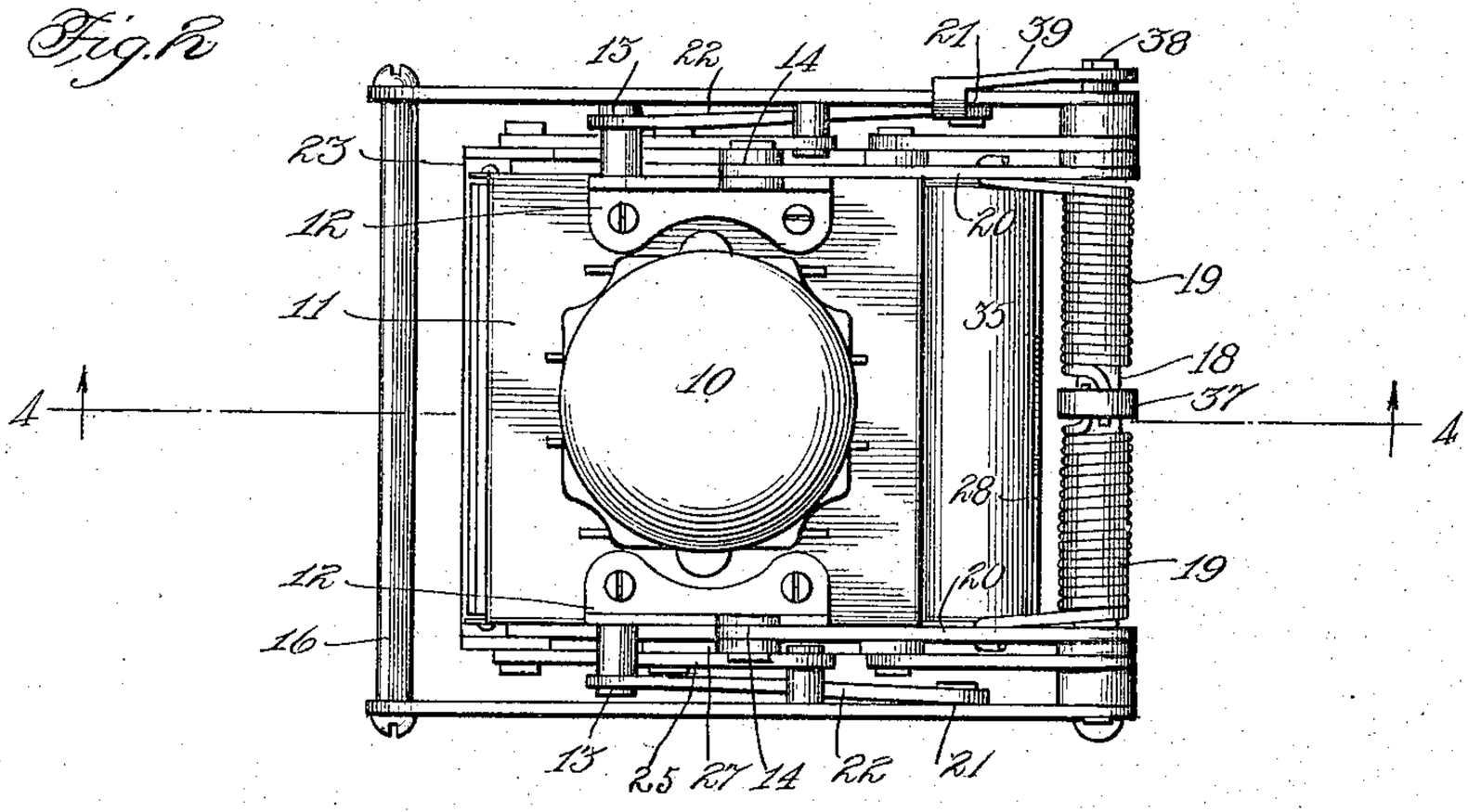

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Fig. 3

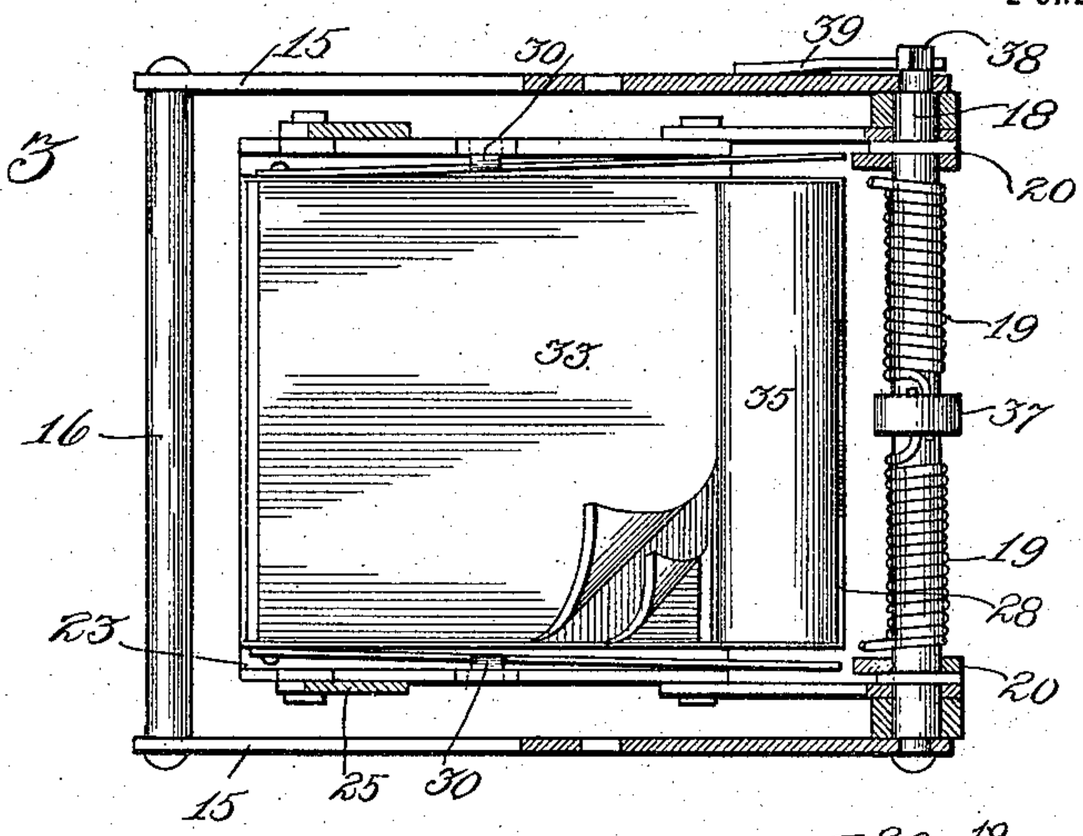


Fig. 4.

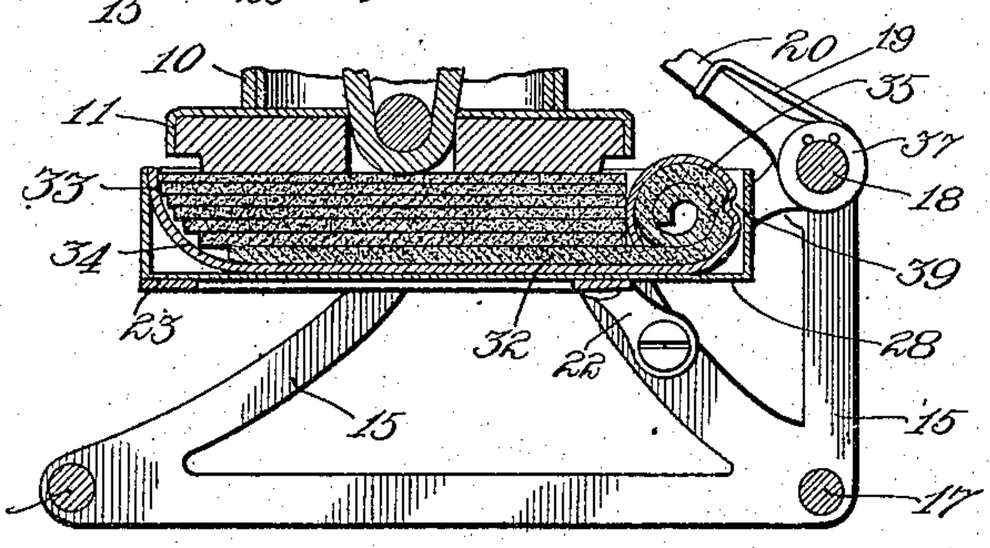


Fig. 5.

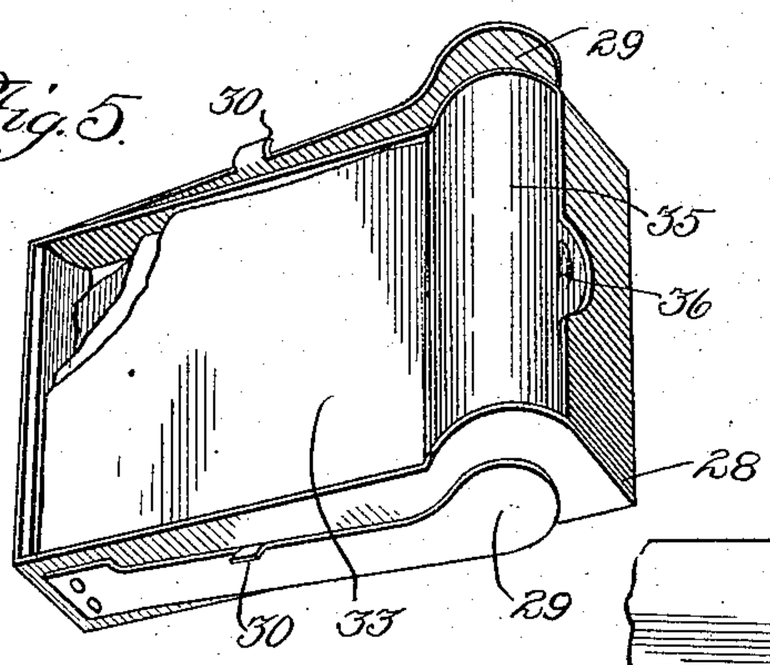


Fig. 6.

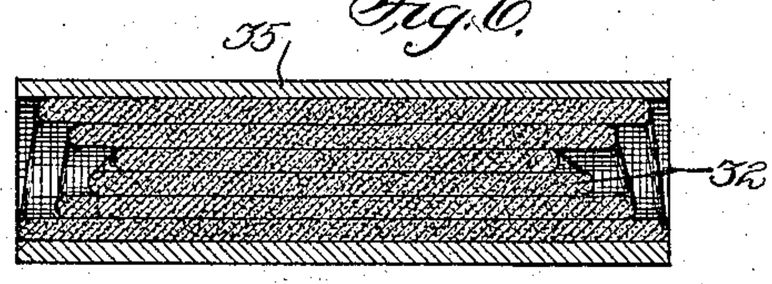
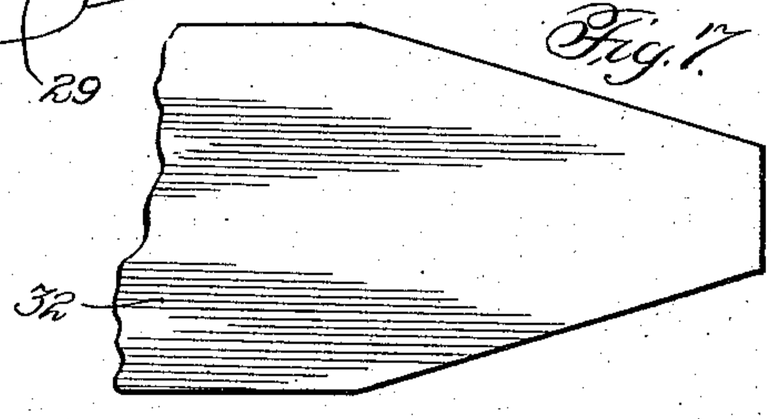


Fig. 7.



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UNITED STATES PATENT OFFICE.

HARRY S. FOLGER AND CASPER L. REDFIELD, OF CHICAGO, ILLINOIS; SAID REDFIELD ASSIGNOR TO SAID FOLGER.

SELF-INKING HAND-STAMP.

1,166,667. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed May 23, 1914. Serial No. 840,423.

To all whom it may concern:

Be it known that we, HARRY S. FOLGER and CASPER L. REDFIELD, citizens of the United States of America, and residents of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Self-Inking Hand-Stamps, of which the following is a specification.

Our invention relates to self inking hand stamps and has for its object the construction of a frame work, a stamp movement and an ink pad suitable for making an ordinary hand inking stamp into a self inker.

In the accompanying drawings Figure 1 is a side elevation; Fig. 2 is a plan; Fig. 3 is a section on line 3—3 of Fig. 1; Fig. 4 is a sectional elevation of Fig. 3; Fig. 5 is a perspective of the ink pad and its holder; Fig. 6 is an enlarged longitudinal section of the ink receiving and holding part of the ink pad; and Fig. 7 is an enlarged detail of that end of the lower layer of the ink pad which is rolled up to make the ink holding part of the pad.

In the said drawings 10 is a hand band dater of a type well known in the trade and is here used as typical of the kind of hand stamp for which the self inking devices are made.

On the die holder 11 of the dater 10 are secured brackets 12 having pivoting points 13 and 14. These are pivoting points for links to be described hereafter and are the only connections between the dater and the self inking apparatus in which it is supported.

The frame consists of two similar stamped plates 15 connected together by tie bolts 16, 17 and 18. Bolts 16 and 17 are plain tie bolts, while bolt 18 serves to carry the stamp elevating springs 19 and also as a pivotal support for the links 20 which are connected to the bracket 12 at the points 14.

At the point 21 on the frame 15 are pivoted the links 22 which have their other ends connected to the points 13 on the brackets 12. The links 20 and 22 are of the same length, and the distance from 18 to 21 is equal to the distance from 14 to 13. The result is a parallel movement by which the dater 10 is held in an upright position while moving about the pivotal centers 18 and 21. The downward movement of the stamp carries it forward so that it strikes the printing surface closely adjacent to the tie rod 16. The rod 16 thus serves as a guide in placing the stamp frame when using the stamp for printing purposes.

The pad frame 23 has its rear portion supported by links 24 pivoted on bolt 18 and has its front portion supported by links 25 pivoted at points 26 on the side frames 15. In this case the links 25 are longer than the links 24. Links 27 connect the centers of links 25 with the pivoting points 14 on the brackets 12, and these links 27 act to swing links 24 and 25 on their pivotal supports 18 and 26 when the stamp 10 rises and falls in the frame. The relation of these parts to each other is such that when the stamp is in elevated position the frame 23 will be horizontal under the stamp die, but when the stamp is depressed the pad frame 23 will be to the rear in a tilted position as shown in dotted lines in Fig. 1.

The pad frame 23 is in the form of an open ended channel into which is slipped a pad holding box 28. On the sides of the box 28 are spring arms 29 having projecting lips 30 adapted to enter holes in upstanding lugs 31 on the side of the pad frame 23. When the box 28 is in the frame 23 the lips 30 engaging the holes in lugs 31 hold the box in place. By manually pressing the arms 29 against the sides of the box 28 the lips 30 are freed and said box may be withdrawn rearwardly.

The pad consists of certain layers of felt 32 and 33 held to a plate 34. The plate 34 has its rear end bent into a loop 35 in which is a notch 36 for receiving the thumb nail to release the pad from the box 28. The layer 32 has its end tapered as shown in Fig. 7 and this end is coiled up into a roll which fits in the loop 35. This leaves a conical chamber in each end of the loop 35 into which ink is inserted for inking the pad. When ink is placed in these conical chambers and the pad inserted in the box 28, the sides of the box close the ends of the loop to retain the ink in the chambers. It is then conveyed by capillarity through the layer 32 to the bottom of the box under the layers 33. By these means the loop and contained felt serve as a reservoir of ink for the pad.

The springs 19 have their inner ends connected to a collar 37 rigid on the bolt 18, and their outer ends looped under links 20 to elevate the stamp in its frame 15. This

bolt 18 may be rotated in bearings in the frame 15 and has one end squared as shown at 38 in Figs. 2 and 3. On this squared end is an arm or key 39 having its outer end hooked over the adjacent side frame 15. By shifting the position of the key 39 on the squared end of bolt 18 the tension of the springs 19 may be adjusted.

What we claim is:—

1. The combination with a hand stamp, a frame, and parallel motion links connecting the stamp to the frame, of a pad, links of unequal length connecting the pad to the frame, and connections for moving the pad on its supporting links to and from a position under the stamp when said stamp rises and falls in the frame.

2. The combination with a hand stamp, a frame, and a spring for supporting said stamp at an elevated position in said frame, of a pad, links of unequal length connecting the pad to the frame and so arranged that the pad will be tilted when said links swing on their pivotal supports, and connections for causing the stamp and pad to move simultaneously in the frame.

3. The combination with a hand stamp, a frame, parallel motion links connecting the stamp to the frame, and a spring for supporting said stamp in an elevated position in said frame, of a pad, long and short links connecting the front and rear portions of the pad to the pivoting points on the frame, and connections for moving the pad to and from a position under the stamp when said stamp rises and falls in the frame.

4. A frame consisting of two side plates connected together by ties, a stamp having one pivotal support on one of said ties and a second pivotal support on said side plates, a pad similarly supported on one of said ties and on said side plates, and connections between the stamp and pad and so arranged as to cause the pad to move to and from a position under said stamp when said stamp rises and falls in said frame.

5. Two similar side plates, two lower tie rods and one upper tie rod connecting said side plates together to form a frame, a stamp pivoted at one point on the upper tie rod and at another point on the frame, a pad similarly pivoted on the upper rod and the frame, and connections between the stamp and the pad for moving said pad to and from the face of the stamp.

6. A hand stamp provided with two pivoting points on the same side thereof, a frame, links pivoted at different points on the same side of the frame and having their free ends connected to the pivoting points on the stamp, an ink pad provided with two pivoting points on the same side thereof, pad supporting links connected to said pivoting points on the pad and supported on different pivoting points on the same side of the frame, and interconnections arranged to cause the stamp and pad to move simultaneously in the frame.

7. The combination with a frame, a stamp, and supports for said stamp pivoted at different elevations on said frame, of a pad, two supports for said pad pivoted at different elevations on said frame, and interconnections for causing simultaneous movements of the stamp and pad.

8. The combination with a stamp, a pad, and a frame within which the stamp and pad are movable, of two stamp supporting links pivoted at different elevations on the frame, two pad supporting links pivoted at different horizontal positions on the frame, and connections for causing the stamp and pad to move simultaneously in the frame.

9. The combination with a stamp, a pad, and a frame within which the stamp and pad move, of two stamp supporting links pivoted at different elevations on the frame, two pad supporting links pivoted at different horizontal positions on the frame, a connection from the stamp to one of the pad supporting links, and a spring for elevating said stamp in the frame.

Signed at Chicago, Illinois, this 21st day of May, 1914.

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