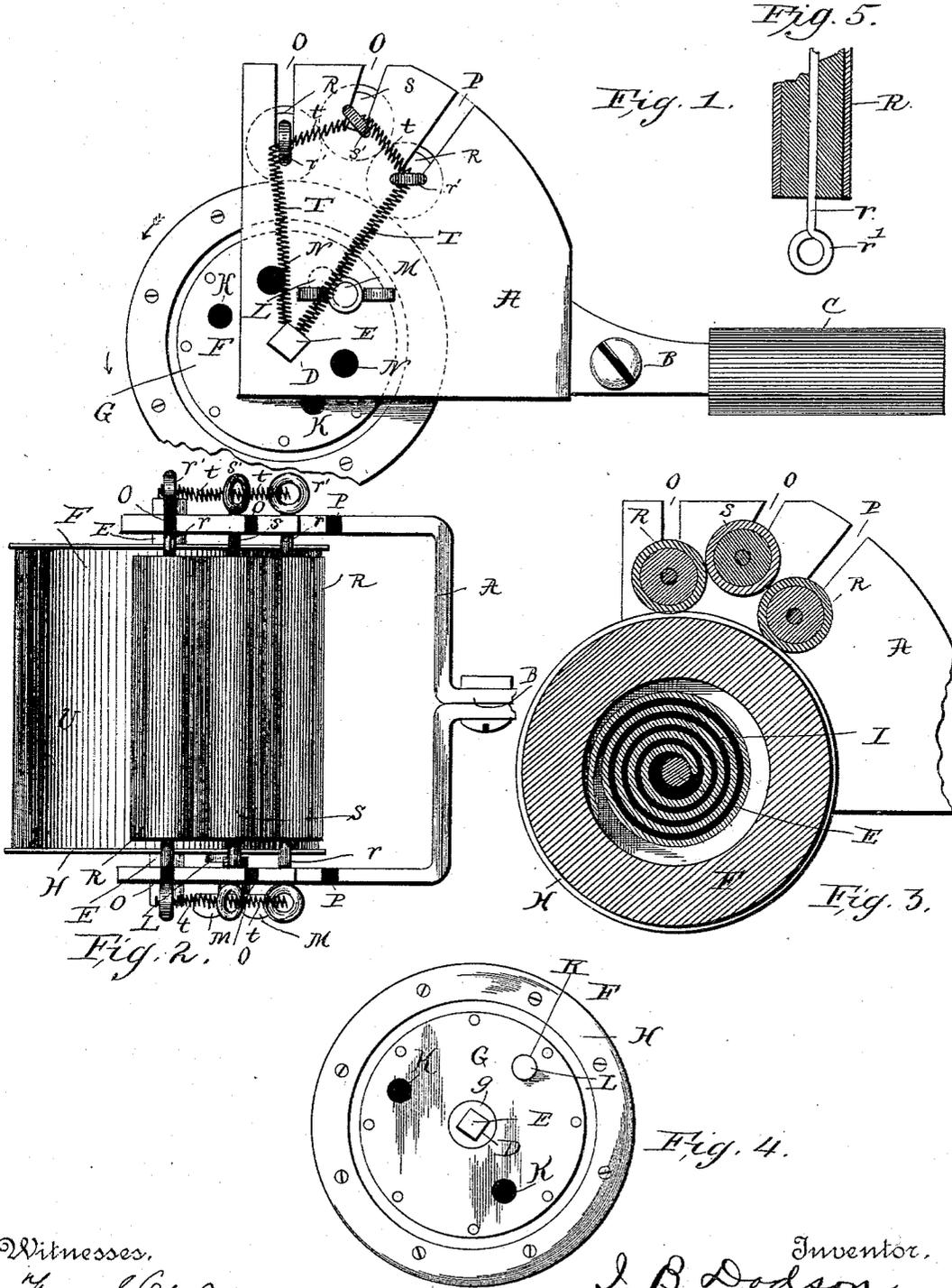


(No Model.)

I. B. DODSON.
HAND STAMP.

No. 401,335.

Patented Apr. 16, 1889.



Witnesses.

Frank S. Carr
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UNITED STATES PATENT OFFICE.

ISAAC BEAUREGARD DODSON, OF DANVILLE, VIRGINIA.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 401,335, dated April 16, 1889.

Application filed April 17, 1888. Serial No. 270,900. (No model.)

To all whom it may concern:

Be it known that I, ISAAC BEAUREGARD DODSON, a citizen of the United States, residing at Danville, in the county of Pittsylvania and State of Virginia, have invented new and useful Improvements in Hand-Stamps, of which the following is a specification.

My invention relates to improvements in hand-stamps; and it has for its object to provide a roller-stamp having improved means for inking the type-plate; furthermore, to provide improved means for returning the type-roller to its initial position after an impression has been made, to enable a subsequent impression to be made.

The invention consists in a certain novel construction and arrangement of devices, fully set forth hereinafter in connection with the accompanying drawings, wherein—

Figure 1 is a side view of the improved stamp. Fig. 2 is a plan view thereof. Fig. 3 is a longitudinal central sectional view. Fig. 4 is an end view of the roller. Fig. 5 is a detail longitudinal sectional view of one of the rolls.

Referring to the drawings, A A designate the side plates of the stamp, which are reduced at their rear ends and are connected together to form the shank B, which is attached to a handle, C. The front lower corners of the plates A are provided with the angular apertures D, in which are arranged the squared ends of the transverse shaft E, on which the roller F is mounted. This roller is hollow, and removable plates G G are secured to its ends over the central cavity, and are provided with bearings g g, which receive the shaft. The roller is provided at its ends with the flanges H H, and a spiral spring, I, is arranged in the cavity in the roller and is attached at its outer end to the roller and at its inner end to the shaft. The end plates are provided with three or more apertures, K, in one of which is adapted to be arranged the pin or stud L, and an adjustable stop, M, is arranged in the adjacent side plate for the said pin or stud to strike against. The said stop preferably consists of a thumb-screw which may be arranged in either of the tapped apertures N, which are formed in the side plate, A A, adjacent to the end of the roller which carries the pin or stud. The spring in

the roller normally holds the pin or stud L in contact with the front side of the stop M, and therefore the roller cannot turn in the reverse direction to that indicated by the arrow in Fig. 1; but when the roller is placed on a surface and the stamp is moved forward the roller will turn in the direction indicated by the said arrow. The roller will turn until stopped by the pin or stud striking the rear side of the stop, and when the stamp is lifted the roller will be returned by the spring to its first position with the stud bearing against the front side of the stop.

Three slots, O O P, are formed in each side plate, and corresponding slots in the plates are aligned with each other, the said slots being formed radially from the shaft E as a center. In the said slots are arranged the rods r r s, having the eyes or rings r' r' s' on their projecting ends, and on these rods are loosely mounted the inking-rollers R R S. The front and rear rollers, R R, are in contact with the roller F, and the roller S merely bears on the roller R without coming in contact with the roller F.

The ink is placed on the upper roller, S, from which it is spread upon the rollers R R, and from thence it passes to the type-plate, which is arranged on the roller F between the flanges thereon. The rollers R are held in contact with the type-plate by the coiled springs T T, which are attached at their upper ends to the eyes or rings on the rods r r and at their lower ends to the projecting ends of the shaft E, and the roller S is held in contact with the rollers R R by the coiled springs t t, which are attached at their adjacent ends to the eyes on the ends of the rods s, and at the other ends to the eyes on the rods r r. Thus it will be seen that all the rollers are connected by the series of coiled springs, so that a steady and at the same time yielding pressure is exerted.

The type-plate U, which is used on this stamp, may be of rubber, metal, or any other suitable material, and it is secured to the roller by means of screws or the like.

The operation of the stamp will now be readily understood. The roller is placed on the surface to receive the impression and the stamp is pushed forward, thereby causing the roller to turn and bring all parts of the face

of the type-plate in contact with the surface. At the end of a revolution the roller is stopped in the manner above described, and the end of the type-plate having been reached the stamp is raised from the surface, whereupon the roller returns to its original position and the stamp is in condition for a second impression. This reverse revolution of the roller enables the type to be more thoroughly inked, so that the impression is clear and even.

The adjustable stop and pin or stud enable the initial point of the impression to be arranged at any desired point on the periphery of the roller, and they further enable the tension of the spring to be adjusted at will.

If it is desired to maintain the initial point at the same place and vary the tension of the spring, both the stop and the pin or stud must be adjusted; and if it is desired to change the initial point and maintain the spring at the same tension both the stop and the pin or stud must be adjusted; further, by providing means to adjust both the stop and the pin or stud the initial point of the type-roller can be more accurately adjusted, as will be evident.

The rods *r r* and *s* extend entirely through the rollers *R R S*, and the rings on the ends, bearing against the outer sides of the side plates, prevent longitudinal movement of the rods and enable the rollers to turn freely.

Having thus described the invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a hand-stamp, the combination of the type-roller, the spring for returning the same to its initial position, and an adjustable stop for limiting the rotation of the roller, whereby the initial position of the latter may be adjusted, substantially as specified.

2. In a hand-stamp, the side plates provided with a series of apertures, *N*, combined with

a roller, *F*, mounted between the plates, having a stud or pin, *L*, and provided with a spring to return it to its initial position, and the adjustable stop fitting in one of the apertures *N* in the path of the stud or pin, substantially as and for the purpose specified.

3. In a hand-stamp, the side plates provided with a series of apertures, *N*, combined with the roller provided with a spring to return it to its initial position and having a series of apertures, *K*, in one end, the adjustable stud or pin arranged in one of the apertures *K*, and the adjustable stop *M*, fitting in one of the apertures *N* in the path of the stud or pin, substantially as specified.

4. In a hand-stamp, the combination, with the side plates having the radial slots *O O P* therein, of the roller *F*, mounted between the said plates, the rods *r r s*, arranged in the slots *O O P*, respectively, and having eyes or rings on their ends, the springs *T T*, attached at their upper ends to the rods *r r*, the springs *t t*, connecting the ends of the rod *s* to the ends of the rods *r r*, and the rollers *R R* and *S*, mounted on the rods *r r* and *s*, respectively, substantially as specified.

5. In a hand-stamp, the combination, with the side plates having the roller *F* mounted therebetween and provided with slots arranged radially to the said roller, of the inking-rollers *R R*, mounted in the said slots and connected by springs *T T* to the roller *F*, and the roller *S*, arranged between and in contact with the rollers *R* and connected to the latter by springs *t t*, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ISAAC BEAUREGARD DODSON.

Witnesses:

W. E. GRIGGS,

W. W. CLARK.