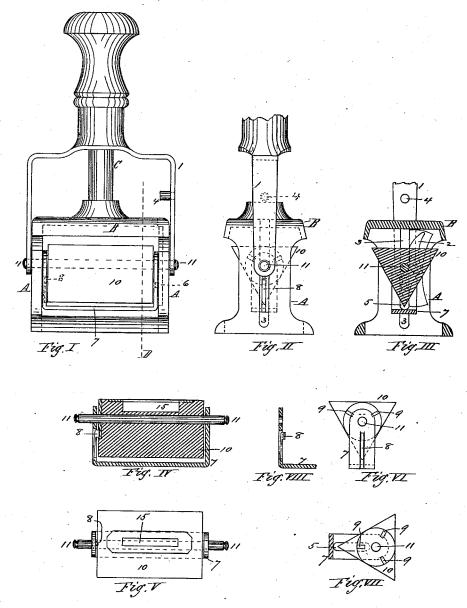
B. B. HILL.

HAND STAMP.

No. 261,229.

Patented July 18, 1882.



Witnesses_

C. S. Hurlbut Chas. H. Wood. Inventor.

his actes.

UNITED STATES PATENT

BENJAMIN B. HILL, OF SPRINGFIELD, MASSACHUSETTS.

HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 261,229, dated July 18, 1882.

Application filed March 28, 1881. Renewed April 14, 1882. (Model.)

To all whom it may concern:

Be it known that I, BENJAMIN B. HILL, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Self-Inking Hand-Stamps, of which the following is a specifica-

tion and description.

The object of my invention is to provide a hand-stamp whose die-block is adapted to be 10 provided with two or more printing-dies, either one of which may be used to make the impression, and be automatically inked therefor at each successive downward and upward movement of the hand-piece in the ordinary opera-15 tion of printing with the stamp; and I accomplish this by the mechanism substantially as hereinafter described, and illustrated in the

accompanying drawings, in which-

Figure I is a front view of a self-inking hand-stamp having my invention applied. Fig. II is an end view of the same. Fig. III is a vertical transverse section of the stamp through the inking-bed and parts below on the line D of Fig. I. Fig. IV is a vertical longitudinal 25 section of the die-block and its rotating yoke. Fig. V is a plan view of the die-block and its yoke and the pivot upon which it revolves. Fig. VI is an end view of the die-block and its yoke. Fig. VII is a transverse section through the die-block yoke, showing the latter and the die-block in a partially reversed position in the operation of printing; and Fig. VIII is a longitudinal vertical section of the end of the die-block yoke, showing the spring-catch 35 which retains the die-block in the position into which it may be placed for printing.

In the drawings, A denotes the stationary frame of an ordinary self-inking hand-stamp; C, the tube containing the actuating-spring; 1, 40 the movable frame, with the hand-piece secured to its upper portion, and ordinarily a dieplate pivoted in the lower end of the movable frame. Instead, however of the ordinary dieplate used, I pivot what might more properly 45 be termed a "die-block," as 10, in the lower end of the movable frame, having any desired number of sides, each adapted to have a die

secured thereto or made thereon.

In the drawings a die-block having three 50 sides is shown, which is provided with a journal-bearing, as 11, at each end, preferably | jecting pin inward, and causing the yoke and

equidistant from the sides of the block, and which journal-bearing may be continuous, extending the entire length of the block, as shown in Fig. IV, and the ends of this pivot or jour- 55 nal may be grooved to receive a spring-ring at

each end after being inserted into place.

The yoke 7 is pivoted upon the journal, or is attached thereto at one end, and extends around the block 10 to its other end, and is 60 there pivoted or attached to that end of the journal; and this yoke is provided with a longitudinal slot, as 5, at one end, and at the other is provided with a spring catch or detent, as 8, whose end projects inward toward 65 the die-block and engages with any one of a series of indents, as 9, made in the end of said die-block, the number of said indents being equal to the number of sides of the block having dies attached.

One end of the stationary frame A is provided with a vertical slot, as 3, and a bar, as 2, is pivoted midway its length to the inside of said frame by the side of this slot, with a pin, 6, projecting inward from the lower portion of 75

said bar and into the slot 5 in the yoke 7. The lower ends of the movable frame 1 are pivoted to the journals 11 of the die-block, and a pin, as 4, projects inward from the upper portion of the movable frame 1, which, when 80 the said frame is moved down, passes down in the slot 3 in the stationary frame A and against the inner curved edge of the vibrating bar 2. As the movable or actuating frame 1 moves down the journal 11 at one end of the 85 die-block first strikes against the inner edge of the lower part of the vibrating bar 2, moving the lower end of the latter outward, and as the pin in the lower end of the vibrating bar projects into the slot 5 in the yoke 7 at a point 90 quite near to the journal 11 the main part of the yoke is moved to one side or partially revolved upon the journals 11, partially revolving the die-block also, which is held fast to the yoke. The die-block being thus revolved 95 somewhat more than one-fourth of a revolution, as the actuating-frame 1 is moved farther down the pin 4 in the upper part of said frame strikes against the curved inner edge of the upper end of the vibrating bar 2, moving its 100 upper end outward and its lower end and pro-

the die-block held fast by the detent 8 to complete a half-revolution upon the journals 11, when the die-block will be in a reversed position from that which it occupied when the act-5 uating-frame was in its most elevated position, and the die will in this lower and reversed position make an impression upon any material placed beneath to receive it. In the upward movement of the actuating-frame 1 the jour-10 nal 11 at the end of the die-block first strikes against the inner curved edge of the lower end of the vibrating bar, and moving its projecting pin and the yoke to one side, and causing the latter and the die-block to make a partial 15 revolution back again on the journals 11, and as the frame and journals 11 move upward one end of the latter strikes against the inner curved edge of the vibrating bar at its upper end and throws it outward and its lower end 20 and its projecting pin inward, causing the dieblock to complete its half-revolution backward, and resuming its original position before it was moved down. When in this elevated position the same die which made the impression at the 25 last downward movement of the frame 1 will be held by the frame up against the inkingpad located and exposed in the lower side of the part B of the stationary frame A, and will thereby receive the ink necessary for making 30 the next impression at the next downward movement of the hand-piece and actuatingframe 1. Any one of the dies of the three on the three-faced die-block 10 may thus be used for making successive impressions; and if any 35 one of the dies is being used and it is desired to use one of the others, the block 10 may be revolved upon the journals 11, springing the detent 8 out of its recess, and when the desired die is exposed for use, or in a position oppo-40 site the yoke 7, the detent 8 will then spring into the appropriate recess, as 9, and the die-block be held in the same position until it is again turned with the fingers to expose the desired 45

In the illustration a die-block is shown having three faces, to each of which a die may be secured different in its character or printingmatter from either of the others; but it is obvious that a die-block having any desired num-50 ber of faces may be used, each having a die different in character or matter from the others, which is oftentimes a matter of no little convenience.

I am aware that stamps having die-blocks 55 with two sides, each provided with a printingdie, have heretofore been used, in which the die-block was caused to make an intermittent rotary movement always in the same direction

by the successive downward movement of the hand-piece and movable frame, in which case 60 with a die-block having two faces or sides and two dies the same die could be made to print only at each alternate downward movement of the hand-piece and movable frame. In my invention the downward movement of the frame 65 1 reverses the die-block, causing any particular and desired die to make the impression, and the next upward movement of the said frame reverses the die-block back again, the latter making but half a revolution at each 70 downward movement of the frame 1 and a halfrevolution back again at the next upward movement of said frame.

It is evident that the desired number of detents may be made in the end of the die-block 75 and arranged to engage in an indent made in the inside of the yoke 7, if desired; but I prefer the construction hereinbefore described.

If it is desired to have more than one dieblock, the journal may be disengaged from its 80 bearings in the lower end of the frame 1, the die-block thereon removed from the journal and another slipped onto the journal, and the latter again secured in its bearings in the frame, all with very little trouble. In this 85 manner a great variety of printing may be done with one stamp by having the desired variety of die-blocks, one being removed and another being substituted when desired.

One or more of the faces of the die-block may 90 have a recess, as 15, therein, in which to insert type to be used for dating purposes in connection with the permanent die made thereon or secured thereto.

Having thus described my invention, what 95 I claim as new is-

In a hand-stamp, the combination of a fixed frame provided with an inking-pad exposed on its lower side, an actuating-frame, a revolving die-block having a number of sides, as de- 100 scribed, and pivoted upon journals having a bearing in said actuating frame, an oscillating yoke loosely embracing the ends of said dieblock, and a spring-detent or catch mechanism between said yoke and die-block, so that 105 the latter may be revolved in the yoke to bring and retain either of its printing-dies into position to be used for printing and for having the ink automatically applied for printing by the movement of the actuating-frame in the oper- 110 ation of printing, substantially as described.

BENJAMIN B. HILL.

Witnesses:

T. A. CURTIS, CHAS. H. WOOD.