E. B. WILHELM.

STAMPING MACHINE.

APPLICATION FILED DEC. 14, 1908.

**931,170.** Patented Aug. 17, 1909.

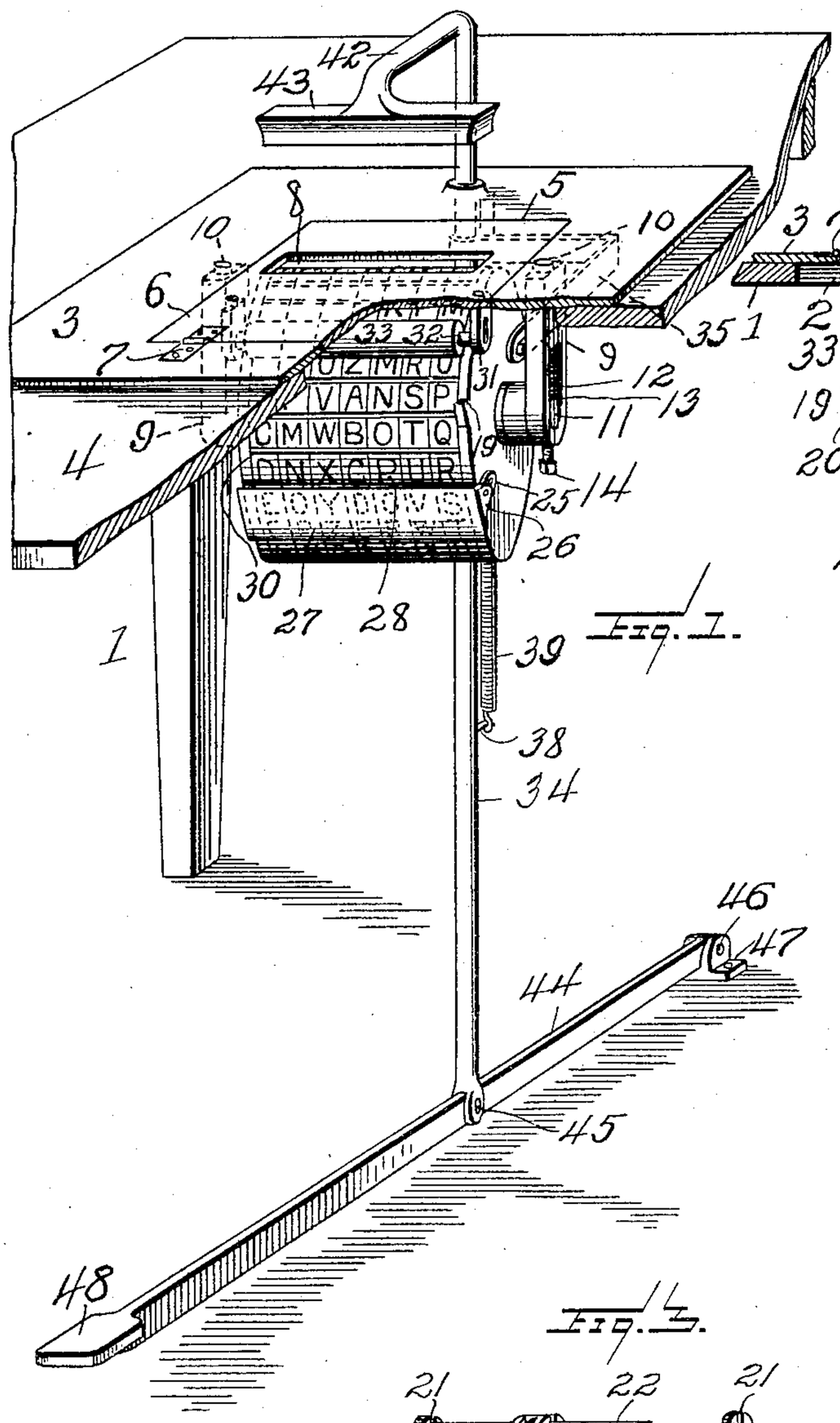


Fig. 1.

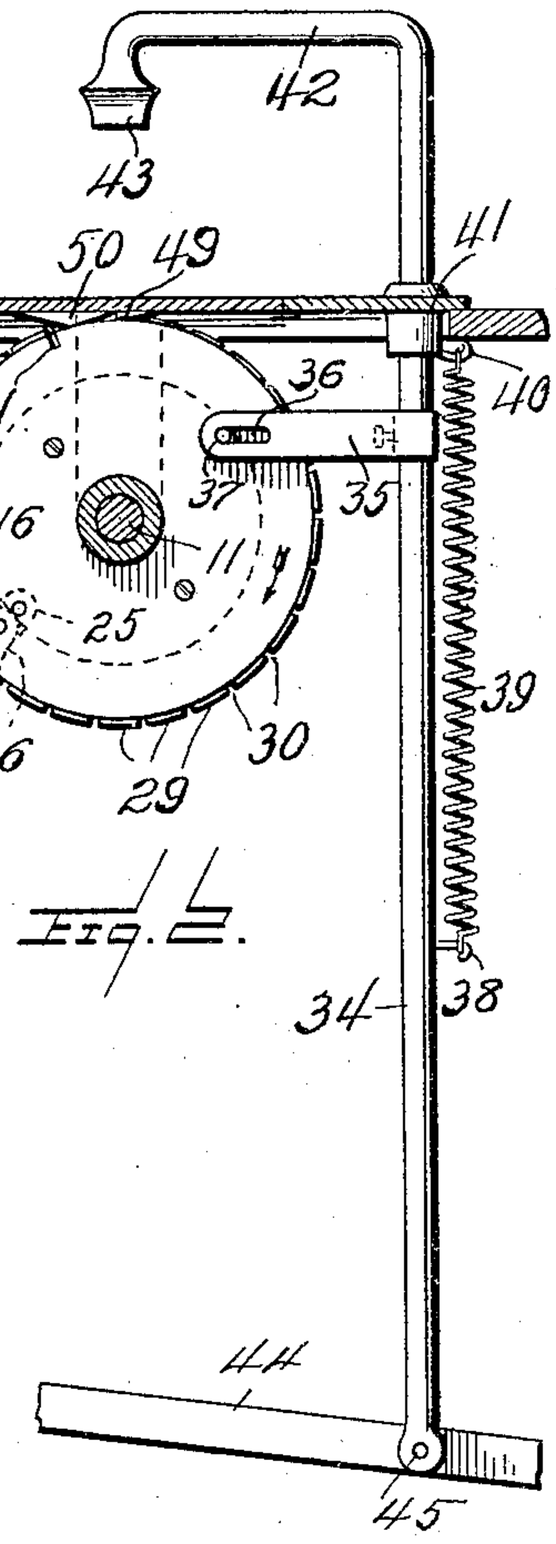


Fig. 2.

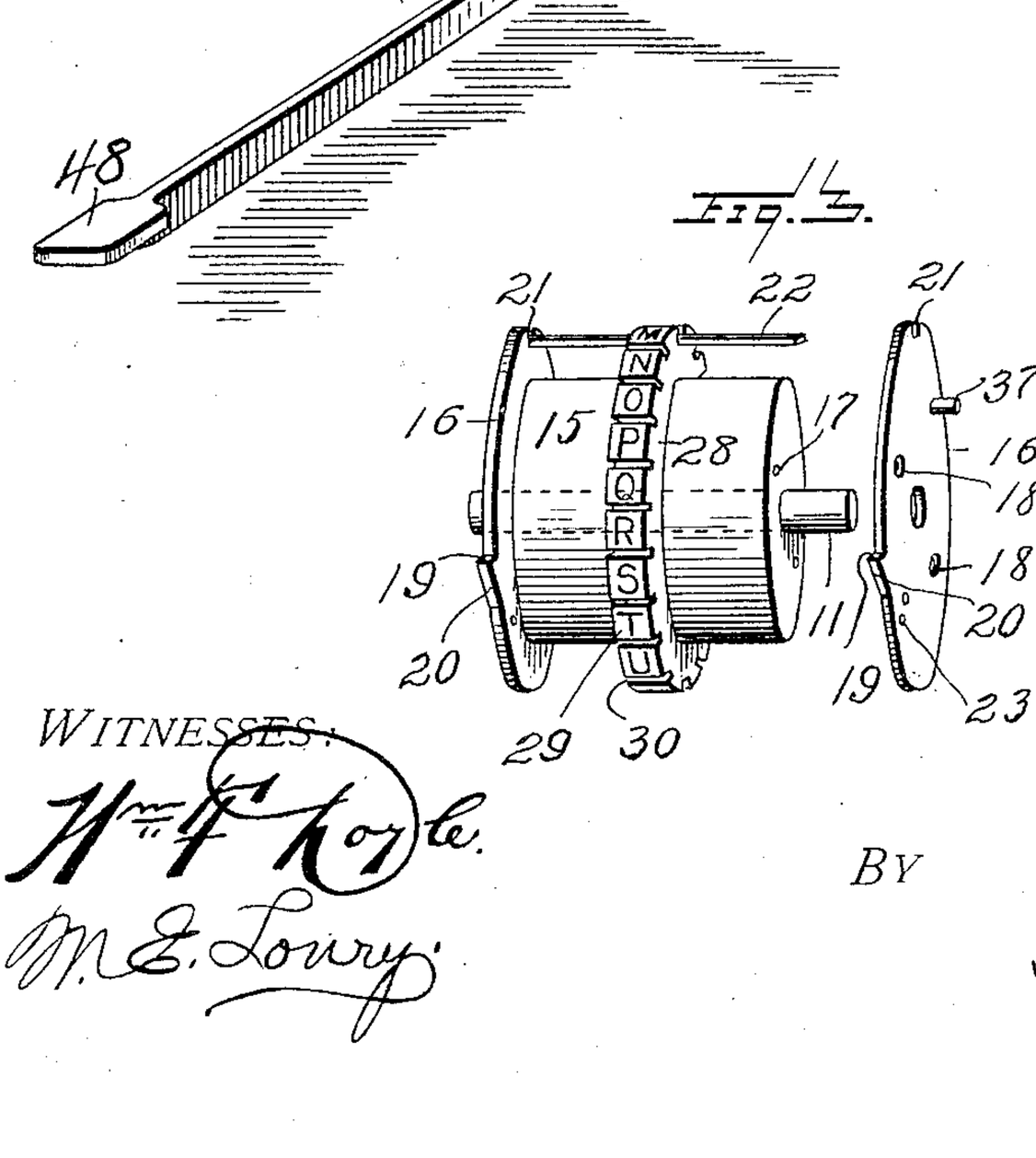


Fig. 3.

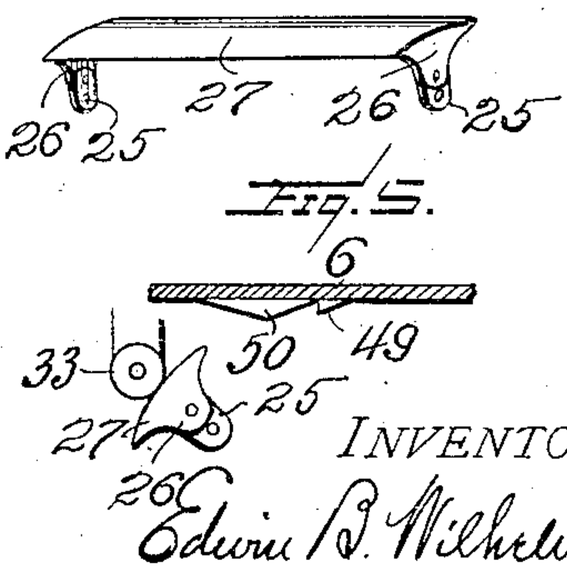


Fig. 4.

Fig. 5.

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# UNITED STATES PATENT OFFICE.

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## STAMPING-MACHINE.

No. 931,170. Specification of Letters Patent. Patented Aug. 17, 1909.

Application filed December 14, 1908. Serial No. 467,500.

*To all whom it may concern:*

Be it known that I, EDWIN B. WILHELM, a citizen of the United States of America, residing at Cedar Rapids, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Stamping-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a stamping machine particularly adapted for marking articles of laundry or for other purposes wherein it is found applicable and the object thereof is to provide a machine of such class in a manner as hereinafter set forth with means whereby articles of laundry can be stamped or marked with the names or initials of the owner and to furthermore provide a machine with means in a manner as hereinafter set forth whereby it can be adapted for stamping articles of laundry with different names or initials.

Further objects of the invention are to provide a stamping machine for the purpose set forth which shall be simple in its construction, strong, durable, conveniently used, adjustable, efficient, readily set up, and inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings wherein is shown the preferred embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings wherein like characters denote corresponding parts throughout the several views, Figure 1 is a perspective view broken away of a stamping machine in accordance with this invention. Fig. 2 is a sectional side elevation broken away. Fig. 3 is a perspective view disassembled of the type ring carrying cylinder. Fig. 4 is a like view of the inking pad, and, Fig. 5 is a detail showing the inking pad in engagement with the inking roll.

Referring to the drawings by reference characters, 1 denotes a table having an opening 2 in the top thereof and over which is arranged a plate 3 which is supported by the table top 4. The plate 3 approximately centrally thereof is cut away to provide an opening 5 in which is positioned a cover 6 hinged as at 7 to the plate 3. The cover 6 is formed with a rectangular slot 8 for a purpose to be hereinafter referred to.

Secured to the side walls of the opening 2 are hangers 9 provided on their upper ends with dowels 10 which engage in openings in the plate 3 to prevent it from moving when positioned upon the table top 4. Journaled in the hangers 9 are the ends of a spindle or shaft 11 and against the said ends bear coil springs 12 which are arranged in the hangers 9. Vertical slots 13 are formed in the hangers 9 for the reception of the spindle or shaft 11 and springs 12. The ends of the spindle or shaft 11 are vertically adjusted through the medium of set screws 14 which extend through the bottom of the hangers 9 and engage with the ends of the shaft 11. Fixed to the shaft 11 is a type ring supporting cylinder 15 having removable heads 16 which are of greater diameter than the diameter of the cylinder 15. Each end of the cylinder 15 is provided with openings 17 which register with openings 18 in the heads 16 and through which are adapted to extend suitable means for fixedly securing the heads 16 to the cylinder 15. Each of the heads 16 is formed with a peripheral shoulder 19 beveled as at 20. When the heads 16 are fixed to the cylinder 15, the shoulders 19 are arranged directly opposite each other. The peripheral edge of each of the heads 16 is furthermore provided with a notch or seat 21 for the reception of a retaining bar 22, the function of which will be hereinafter referred to. Each of the heads 16 is also formed with an opening 23, said openings 23 being arranged opposite each other and are adapted to receive hold fast devices for connecting thereto arms 25 to which are attached the arms 26 of an inking pad 27, the latter being segment-shape in contour and of a length as to extend from one head 16 to the other head and is arranged over the peripheral edge of each of the heads 16 as clearly shown in Fig. 1.

Mounted upon the cylinder 15 and interposed between the heads 16 is a series of type rings 28, each having its periphery provided with a series of type 29, each separated by a notch 30 in which is adapted to extend the retaining bar 22. The rings 28 are loosely

mounted upon the cylinder 15 so that each can be adjusted independently of the other and when the rings are adjusted, the bar 22 is adapted to engage in the alining notches 30 of the rings and in the seats 21 of the heads 16, whereby the type rings 28 are retained in their adjusted position. Depending from the lower face of the cover 6 is a pair of hangers 31 in which is journaled the spindle 32 of an inking roll 33 adapted to be engaged by the pad 27 whereby ink is supplied thereto and the said roll 33 is adapted to ink the type as they pass against the same during the movement of a type cylinder 15.

The type cylinder 15 is oscillated so as to carry the adjusted type toward and away from the opening 8, the latter constituting means whereby the garment can be forced upon the type through the medium of a platen to be hereinafter referred to. The oscillatory movement of the cylinder 15 is had by a vertically movable operating bar 34 provided with a laterally extending link 35 having an elongated slotted end 36 whereby the link 35 is slidably connected to a laterally extending lug 37 projecting from one of the heads 16. The operating bar 34 carries a hook 38 to which is attached the lower end of an expansible and contractible spring 39, the latter having its upper end secured to a hook 40 carried by a bearing 41 which is secured to the rear of the plate 3. The bar 34 extends through the bearing 41 and is bent forwardly at right angles as at 42 and upon the forward terminus of the angular portion 42 is carried a rectangular platen 43 which is adapted when the bar 34 is lowered, to engage the garment, linen, or other article, and force the same through the opening 8 so as to engage the adjusted type whereby the garment, linen, or article will be stamped or marked in the manner desired. The bar 34 is lowered through the medium of a foot lever 44 which is connected as at 45 to the lower end of the bar 34. The lever 44 at its inner end is pivoted as at 46 to a bracket 47 upon a suitable support and said lever at its forward end is provided with a foot tread 48. The upward movement of the bar 34 or the restoring of the bar 34 to its normal position so as to elevate the platen 43 is had by the contracting of the spring 39.

The movement of the cylinder in one direction, that is to say, toward the opening 8 is arrested by the engagement of the shoulders 19 with the projection 49 formed on the lower face of the cover 6. In this connection, it will be stated that when the bar 34 is lowered to shift the cylinder 15 in the direction of the arrow, Fig. 2, the shoulders 19 will, as will be evident, engage with the projection 49 whereby the movement of the cylinder will be arrested. To prevent the garment, linen, or article to accidentally engage or contact with the inked type, prior to the operation of the platen and during the movement of the cylinder to position the type for stamping purposes, the cover 6 upon which the garment, linen, or article is mounted, is automatically raised. The cover 6 is also automatically raised to release the stamped article from the type to prevent smearing immediately upon the return of the platen 43 to normal position. The elevation of the cover 6 is had by the engaging of the shoulders 19 with a double face protuberance 50, both faces of said protuberance 50 being beveled. The protuberance 50 depends from the lower face of the cover 6 forwardly of the projection 49. By reference to Fig. 2 the protuberance 50 is clearly illustrated and it will be noted that when the shoulders 19 engage the forward face of the protuberance on the movement of the type cylinder to position the type for stamping, that the cover 6 will be raised and held elevated until the shoulders 19 engage the projection 49. On the opposite movement of the cylinder 15, the shoulders 19 will engage the rear face of the protuberance 50 and elevate the cover 6 and retain it in an elevated position until the shoulders 19 have passed clear of the protuberance 50.

The link 35 is formed of resilient material so as to allow a further downward movement of the platen 43 when the cylinder 15 has reached the limit of its movement in one direction. The arrangement of the platen 43 with respect to the cover plate 6 and the limit of movement of the cylinder 15 are such that the platen does not engage the garment to force it against the type which are arranged at the opening 8 until after the movement of the cylinder 15 has been arrested by the projection 49. This will also prevent any smearing action during the stamping operation.

When it is desired to adjust the type rings to change the name or initials to be stamped upon the article, the cover 6 is thrown back which carries the inking roll 33 therewith, the bar 22 is removed, the rings are then adjusted manually in the manner desired, the bar 22 is then positioned in the seats 21 and notches 30 which fix the rings from rotative movement upon the cylinder 15, the cover 6 is then closed and the machine is ready for the operation of stamping.

What I claim is:

1. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, means for operating the platen and cylinder simultaneously, and means for arresting the movement of the

cylinder in advance of the forcing of the article through said opening by the platen.

2. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, means for operating the platen and cylinder simultaneously, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, and means for elevating the support with the article thereon in advance of and after the stamping operation.

3. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, means for operating the platen and cylinder simultaneously, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, an inking pad carried by the cylinder, and an inking roll suspended from said supporting means adapted to engage the type and further adapted to be engaged by the inking pad.

4. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, means for operating the platen and cylinder simultaneously, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, means for elevating the support with the article thereon in advance of and after the stamping operation, an inking pad carried by the cylinder, and an inking roll suspended from said supporting means adapted to engage the type and further adapted to be engaged by the inking pad.

5. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, a reciprocatory bar for operating the platen, a resilient connection between the bar and the cylinder for oscillating the latter when the bar is moved in one direction, and means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen.

6. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, a reciprocatory bar for operating the platen, a resilient connection between the bar and the cylinder for oscillating the latter when the bar is moved in one direction, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, and means for elevating the support with the article thereon in advance of and after the stamping operation.

7. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, a reciprocatory bar for operating the platen, a resilient connection between the bar and the cylinder for oscillating the latter when the bar is moved in one direction, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, an inking pad carried by the cylinder, and an inking roll suspended from said supporting means adapted to engage the type and further adapted to be engaged by the inking pad.

8. A stamping machine comprising an oscillatory type ring carrying cylinder, adjustable type rings mounted thereon, a supporting means for the article to be stamped, said means having an opening, a platen adapted to force the article through said opening to engage the type whereby the article is stamped, a reciprocatory bar for operating the platen, a resilient connection between the bar and the cylinder for oscillating the latter when the bar is moved in one direction, means for arresting the movement of the cylinder in advance of the forcing of the article through said opening by the platen, means for elevating the support with the article thereon in advance of and after the stamping operation, an inking pad carried by the cylinder, and an inking roll suspended from said supporting means adapted to engage the type and further adapted to be engaged by the inking pad.

9. In a stamping machine, a hinged support for the article to be stamped, an oscillatory type carrying cylinder in operative relation with respect to said support, and means carried by the support and adapted

to be engaged by the cylinder when the latter is moving in either direction for elevating said support prior to and after the stamping operation.

10. In a stamping machine, a hinged support for the article to be stamped, an oscillatory type carrying cylinder in operative relation with respect to said support, means carried by the support and adapted to be engaged by the cylinder when the latter is moving in either direction for elevating said support prior to and after the stamping operation, and means carried by the support and adapted to be engaged by the cylinder for limiting the movement of the cylinder in one direction.

11. In a stamping machine, a hinged support for the article to be stamped, an oscillatory type carrying cylinder in operative relation with respect to said support, means carried by the support and adapted to be engaged by the cylinder for limiting the movement of the latter in one direction, a reciprocatory platen associating with said support and the said cylinder, means for operating said platen, and a resilient connection between said operating means and the cylinder for operating the latter and to allow of the movement of the platen after the movement of the cylinder has been arrested in one direction.

12. In a stamping machine, a hinged support for the article to be stamped, an oscillatory type carrying cylinder in operative relation with respect to said support, means carried by the support and adapted to be engaged by the cylinder when the latter is moving in either direction for elevating said support prior to and after the stamping operation, means carried by the support and adapted to be engaged by the cylinder for limiting the movement of the cylinder in one direction, a reciprocatory platen associating with said support and said cylinder, means for operating said platen, and a resilient connection between said operating means and the cylinder for operating the latter and to allow of the movement of the platen after the movement of the cylinder has been arrested in one direction.

In testimony whereof I affix my signature in the presence of two witnesses.

EDWIN B. WILHELM.

Witnesses:

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JOHN M. ELY.