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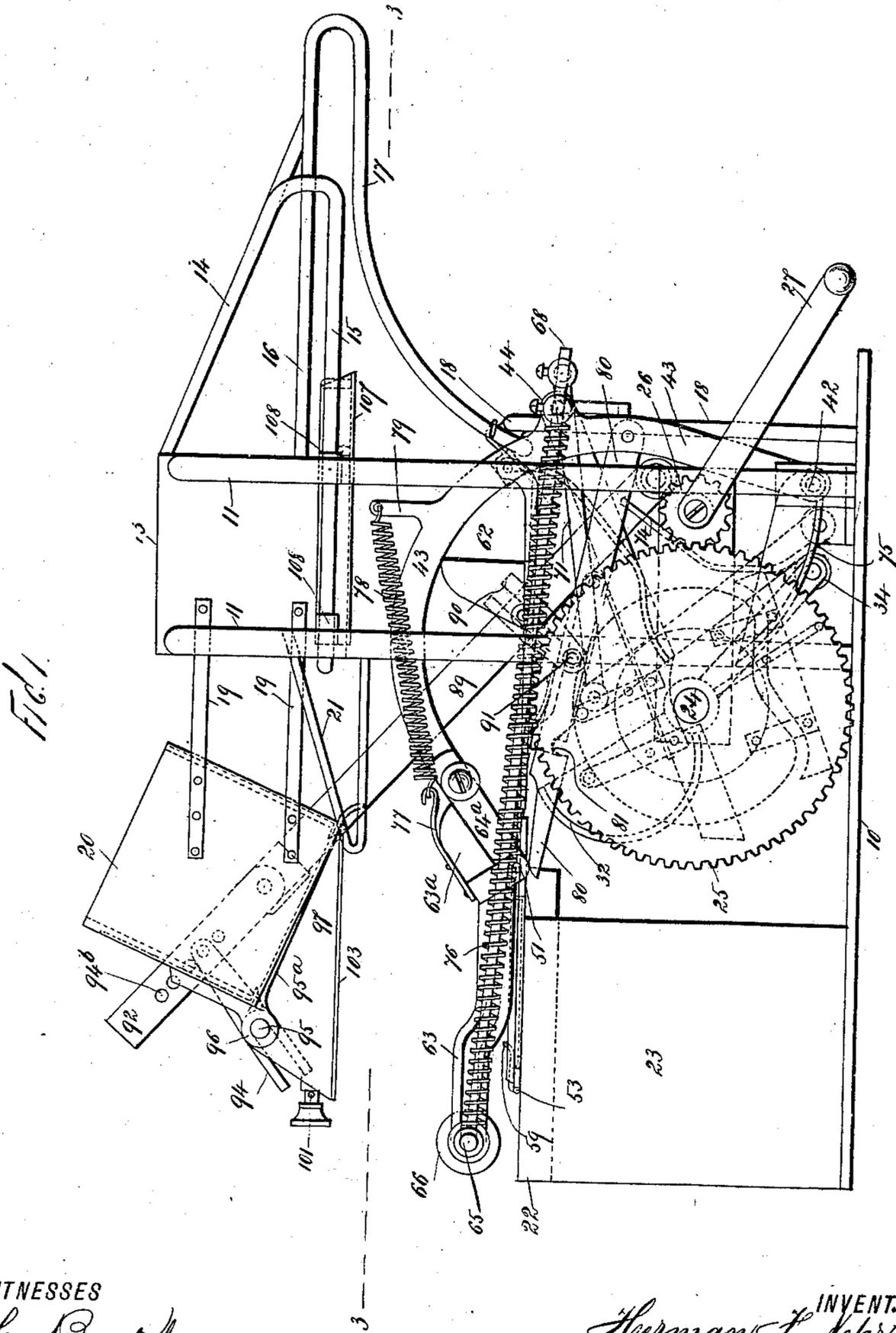
Patented Nov. 27, 1900.

H. F. NEHR.
ADDRESSING MACHINE.

(Application filed May 1, 1900.)

(No Model.)

8 Sheets—Sheet 1.



WITNESSES
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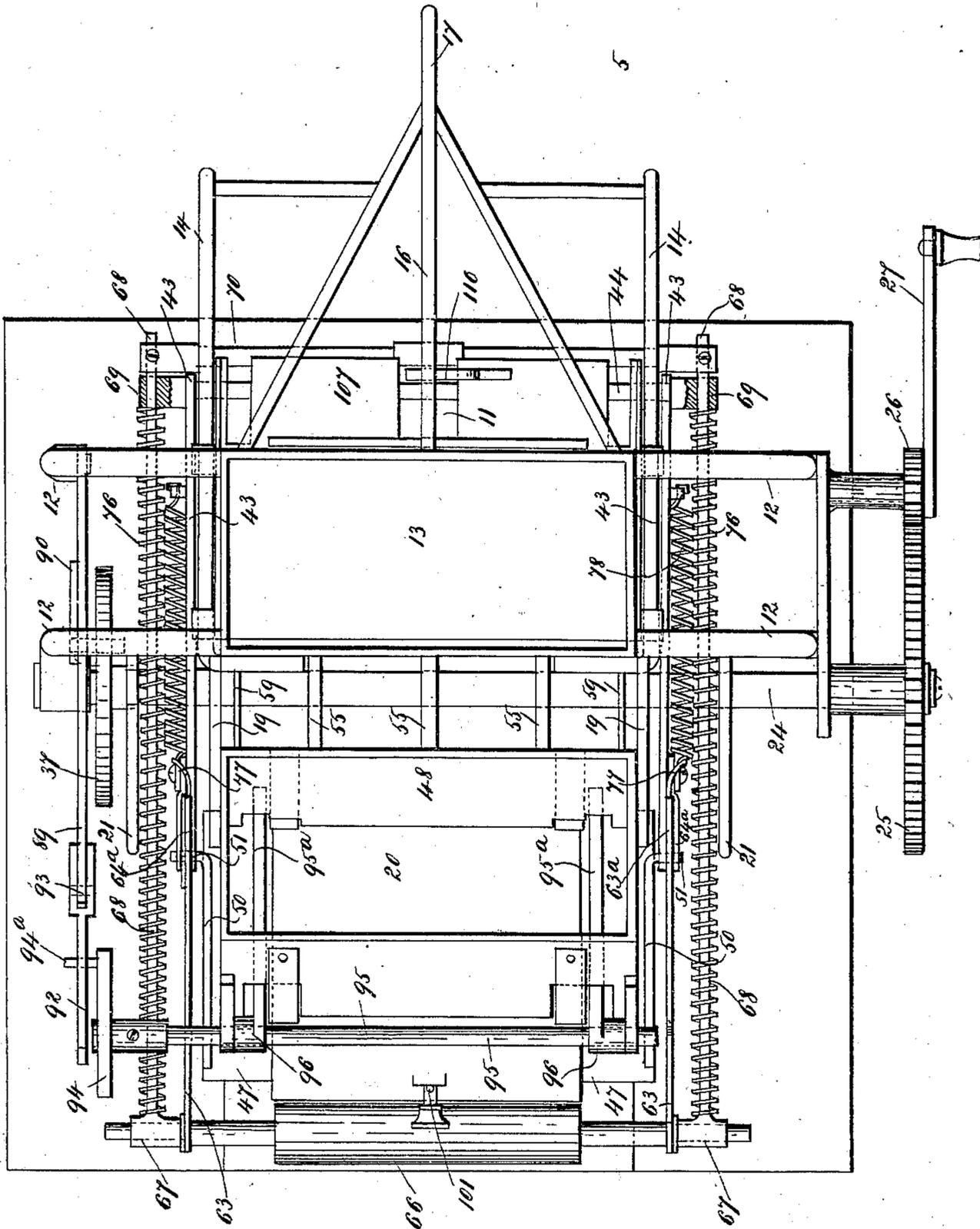
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8 Sheets—Sheet 2.

FIG. 2.



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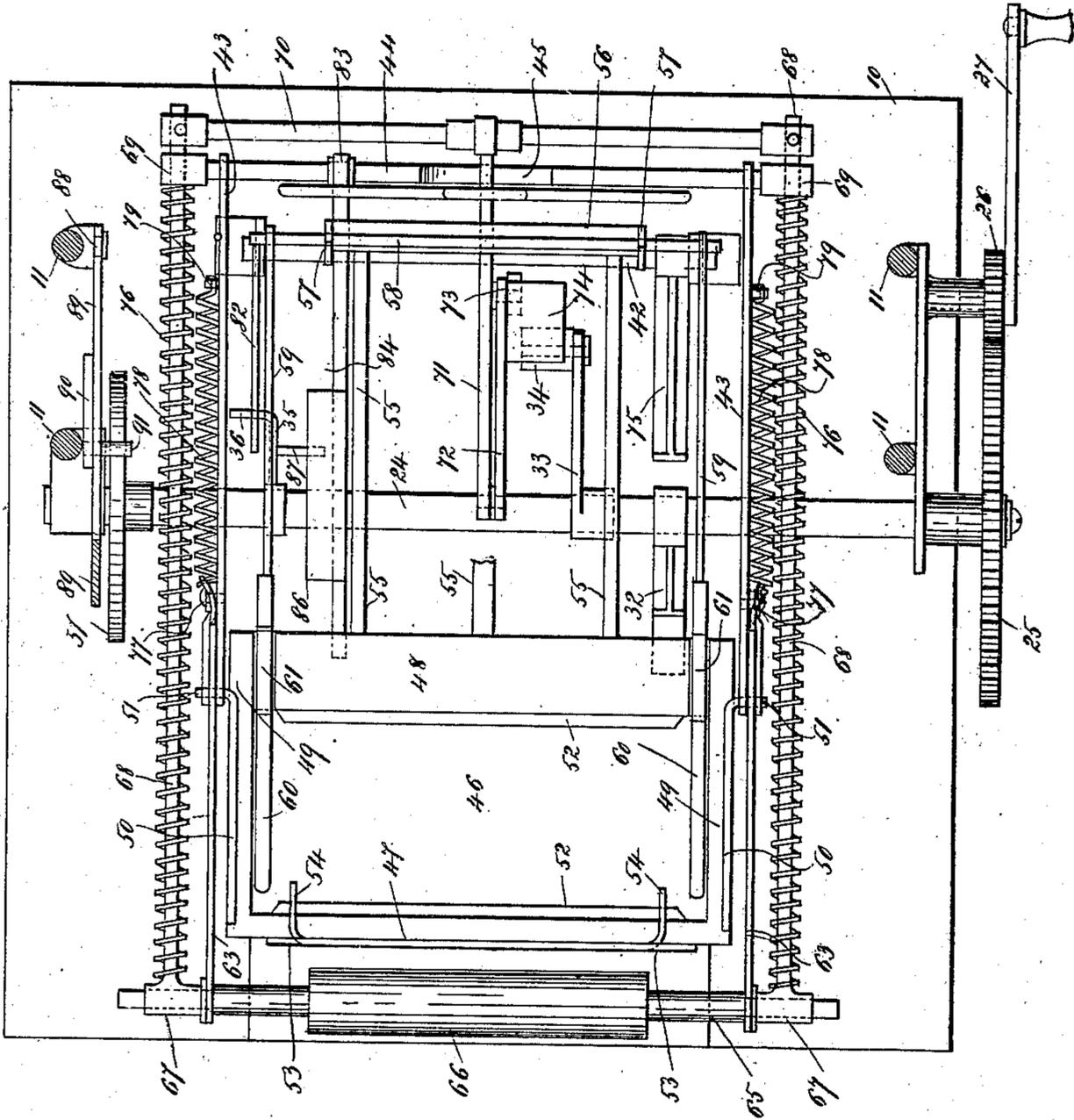
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Fig. 3



WITNESSES

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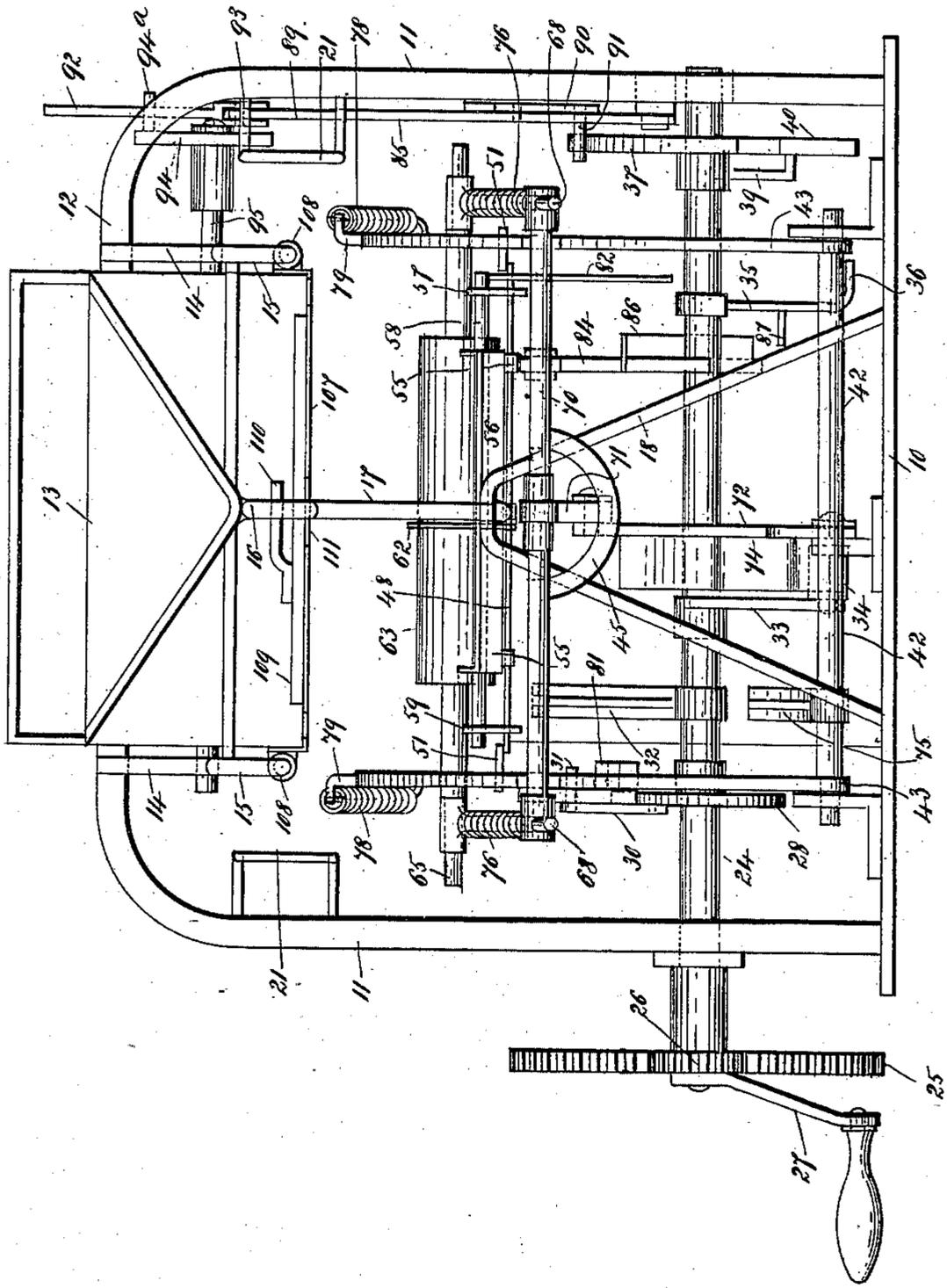
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FIG. 4.



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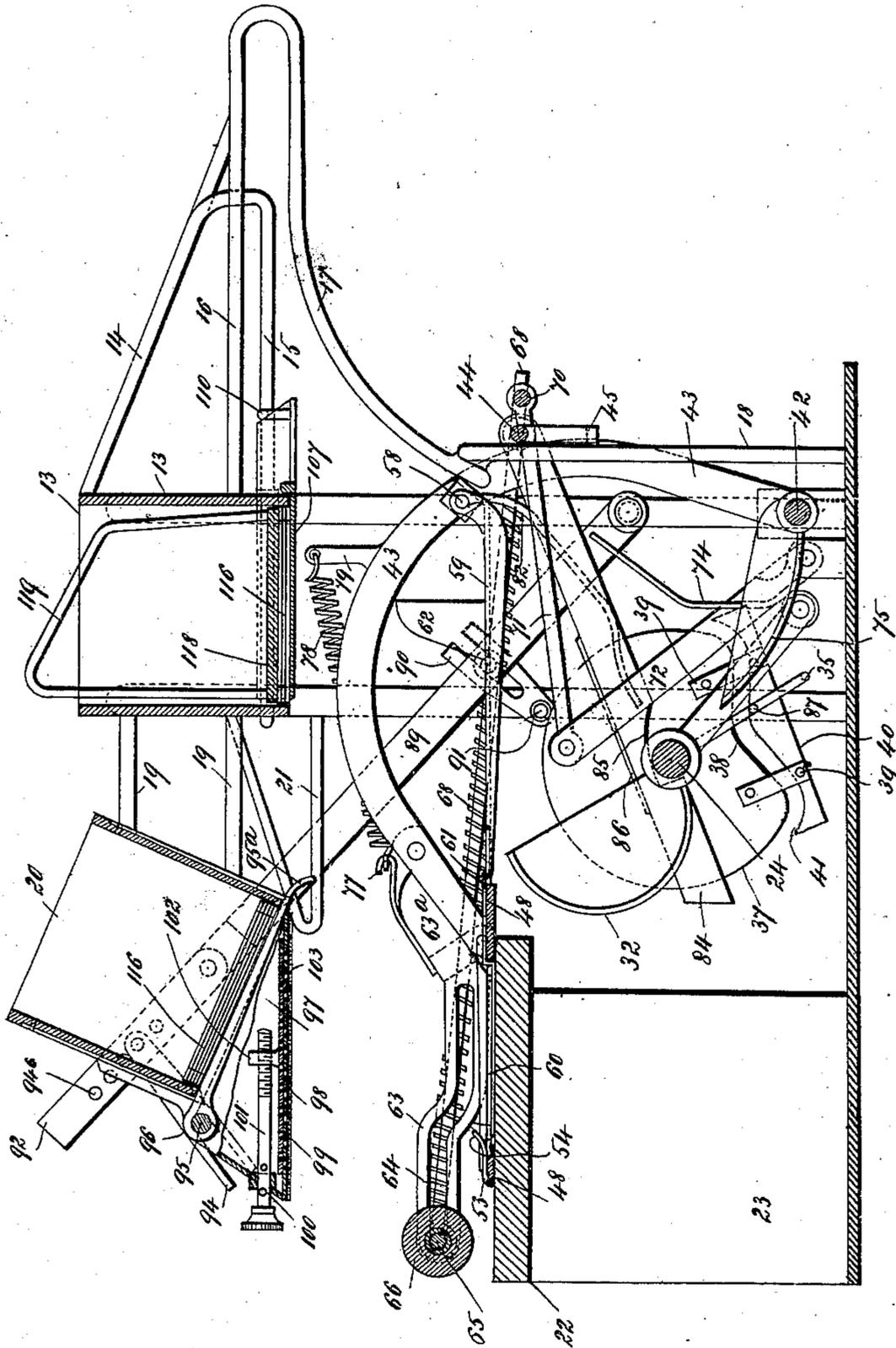
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8 Sheets—Sheet 5.

FIG. 5.



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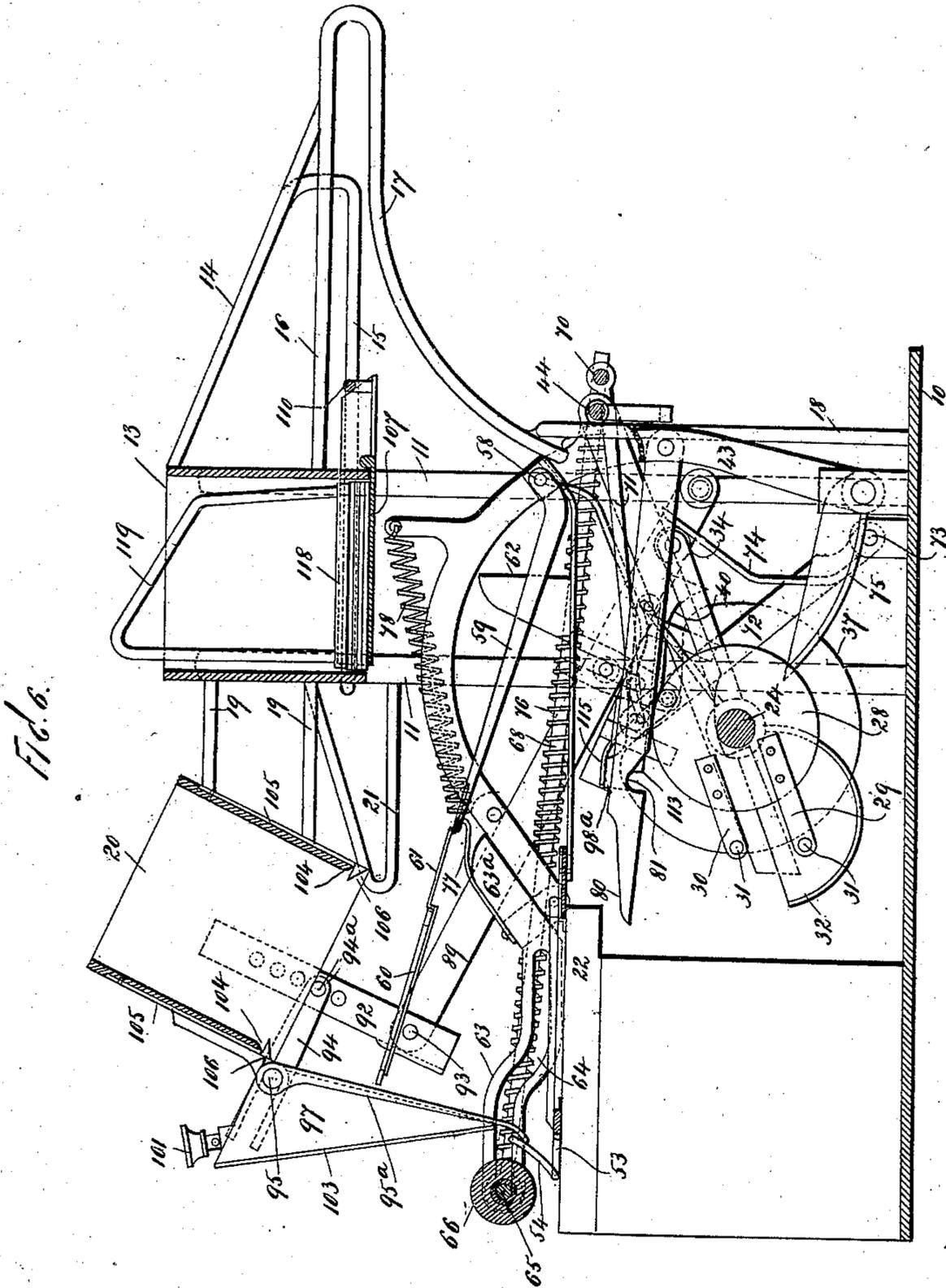
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8 Sheets—Sheet 6.



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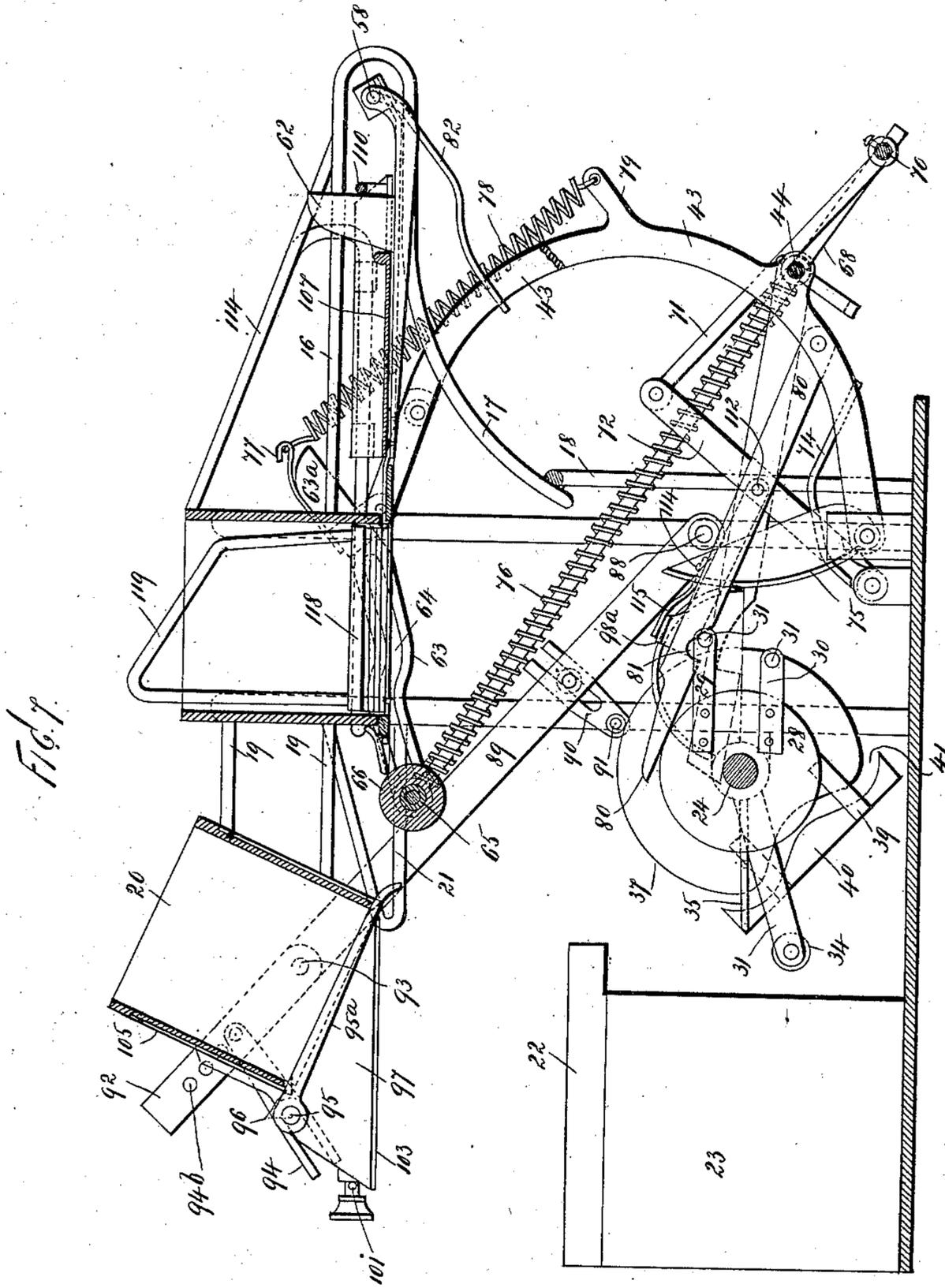


FIG. 7

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(No Model.)

(Application filed May 1, 1900.)

8 Sheets—Sheet 8.

Fig. 8.

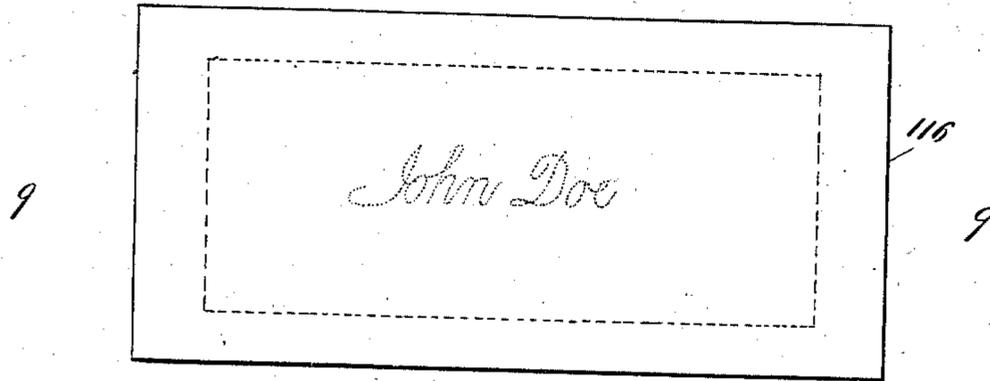


Fig. 9.



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UNITED STATES PATENT OFFICE.

HERMAN F. NEHR, OF NEW YORK, N. Y., ASSIGNOR TO JOHN STRUSE, OF
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ADDRESSING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 662,575, dated November 27, 1900.

Application filed May 1, 1900. Serial No. 15,033. (No model.)

To all whom it may concern:

Be it known that I, HERMAN F. NEHR, a citizen of the United States, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented certain new and useful Improvements in Addressing-Machines, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to machines for addressing cards, envelopes, and other mail-matter; and the object thereof is to provide a machine of this class whereby this work may be expeditiously done at a great saving of time and expense.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which like reference characters denote like parts in the several views, and in which—

Figure 1 is a side view of my improved addressing-machine, the parts thereof being in the normal position as when not in use. Fig. 2, a plan view; Fig. 3, a sectional plan view on the line 3 3 of Fig. 1, the frame of the machine only being shown in section; Fig. 4, a rear end view of the machine; Fig. 5, a vertical section on the line 5 5 of Fig. 2; Fig. 6, a sectional side elevation, looking from the right-hand side of the machine, with parts of the machine in a different position from that shown in Fig. 5; Fig. 7, a sectional side elevation showing the parts in a still different position; Fig. 8, a plan view of an addressing card or stencil which I employ, and Fig. 9 a longitudinal section thereof on the line 9 9.

In the practice of my invention I provide a frame, which, as shown in the drawings, consists of a base 10 and upright side standards 11 at each side, which are curved inwardly at the top and connected by a card or stencil box or holder 13, which forms a part of the frame and rearwardly of which is a downwardly-directed stationary framework 14, at the bottom of which are two horizontal rods 15—one at each side—and between which is a horizontal rod 16, the rear end of which is provided with a guide 17, which extends forwardly and downwardly and connect with an inverted V-

shaped member 18, the bottom of which is secured to the base 10.

Supported in front of the card or stencil box or holder 13 by horizontal side bars 19 at each side is a stencil or card receiver 20, and at each side of the frame, between the standards 11 and the card or stencil box or holder 13, is placed or secured a triangular guide 21, the base of which is horizontal and the upper side of which is inclined upwardly and backwardly. The parts above described are all stationary and form the frame of the machine, while at the same time the card or stencil box or holder 13, the card or stencil receiver 20, and the guide 17 at the rear portion of the machine, together with the guides 21, are also parts of the operative mechanism.

A table 22, supported by side standards 23, is placed below and slightly in front of the stencil or card receiver 20 and on which in practice the envelopes or other matter to be addressed are placed, and for the purpose of this description the end of the machine at which said table is placed is called the "front" end thereof and that portion of the machine with which the guide 17 is connected is called the "rear" end.

A main shaft 24 is mounted transversely of the frame rearwardly of the table 22 and below the top thereof, and this shaft is provided at the right-hand side of the machine with a main gear-wheel 25, operated by a crank-pinion 26, with which is connected a crank 27, and the crank-pinion 26 and the main shaft 24 are supported in suitable bearings connected with the frame. The main shaft 24 is provided adjacent the end thereof with which the gear-wheel 25 is connected and inside the corresponding uprights 11 with a circular disk 28, which is rigidly secured thereto and which is shown in full lines in Fig. 6 and in dotted lines in Fig. 5, and secured to said disk, on the opposite sides of the shaft, are two arms 29 and 30, which are parallel and both of which project beyond the perimeter of said disk and each of which is provided with an inwardly-directed pin 31, the arm 29 being also longer than the arm 30. The main shaft 24 is also provided inside of the disk 28 with a cam 32, which, as shown in the drawings,

is semicircular in form, and secured to said shaft inside of said cam is an arm 33, which is preferably provided at its free end with a roller 34, which projects inwardly or toward the longitudinal center of the machine, and between said arm 33 and the left-hand support of the main shaft is another arm 35, which is also secured to said shaft and is best shown in Fig. 4 and which is provided at its free end with an angular projection 36, which extends to the left. The main shaft 24 also carries within the left-hand standards 11 a cam-disk 37, which is rigidly secured thereto and which is circular in form, as shown in Fig. 5, except at one side, where it is cut away to form an irregular V-shaped surface 38, which extends inwardly toward the center of said disk, and secured to the inner side of said disk are two brackets 39, with which are connected a cam-bar 40, the inner side of which corresponds with the surface 38, and between said bar and said surface is a space or groove 41.

Rearwardly of and below the main shaft 24 is a rocking shaft 42, which carries a rocking frame the main part of which consists of two upwardly and forwardly curved side arms 43, rigidly secured to said rocking shaft and connected at the end of the upwardly-directed portion by a cross-bar 44, the central portion of which is curved downwardly, as shown at 45.

Pivotally connected with the forward ends of the curved side arms 43 is card or stencil frame 46, consisting of a transverse front plate 47, a similar rear plate 48, and side bars 49, to which are secured rods 50, the inner ends of which are curved outwardly and passed through the forward ends of the curved side arms 43, as shown at 51, and the front plate 47 and rear plate 48 of the card-frame are provided on their inner edges with depressed ledges or flanges 52, which in the operation of the machine receive the card or stencil, as hereinafter described, and secured to the front edge of the front cross-plate 47 of the card or stencil frame and to the opposite ends thereof are spring-arms 53, each of which projects transversely across the machine and longitudinally of the card or stencil frame and each of which is provided at its end with a backwardly-directed and upwardly-curved finger 54, all this construction relative to the card or stencil frame being best shown in Fig. 3.

Connected with the rear transverse plate 48 of the card or stencil frame are three backwardly-directed spring-bars 55, which are connected at their rear ends with a transverse bar 56, the ends of which are turned upwardly to form a bracket, as shown at 57, and journaled in the upwardly-directed ends 57 of the transverse bar 56 is a rock-shaft 58, with which are connected at the ends thereof two downwardly-curved and forwardly-directed arms 59, each of which is provided at its forward end with a spring-finger 60, and said

spring-fingers 60 project forwardly over the card or stencil frame and rest within the side bars of said frame, and said spring-fingers are also provided with upwardly-curved loop-shaped portions 61, which receive the ends of the transverse rear plate 48 of the card or stencil frame, which normally supports said fingers. The central bar 55 is provided near the rear end thereof with an upwardly-directed finger 62, as shown in Figs. 1, 6, and 7, and the operation of which will be hereinafter described. The main rocking frame also carries bars 63, which are pivoted to the curved side arms 43 at the point where the card or stencil frame is pivoted, and said side bars are slotted longitudinally, as shown at 64, and said bars extend forwardly from the point of said pivotal connection and about midway are curved upwardly and extended forwardly and carry at their forward end a shaft 65, to which the inking-roller 66 is secured. The bars 63 are each provided at their rear end with a backwardly and upwardly directed extension 63^a, which normally rests on a plate 64^a, secured to the forward end of the corresponding arm 43 of the rocking frame. The shaft 65 passes through the slots 64 in the bar 63, and said shaft projects at each end beyond said bars and is journaled at each end outside of said bars in bearings 67, with which are rigidly connected backwardly directed rods 68, which are slidably mounted in bearings 69, supported by the rocking frame at the ends of the transverse bar 44, this construction being best shown in Fig. 3, and said rods 68 are rigidly connected at their rear end by a transverse bar 70, with which is centrally connected a forwardly-directed arm 71, which is pivoted to a link 72, which projects downwardly and backwardly and which is pivotally connected with the frame at 73, and secured to the lower end of the link 72 is an upwardly and backwardly directed finger 74, in connection with which the roller 34 on the arm 33 operates, and the rocking shaft 42 is also provided with a cam-finger 75, which projects forwardly when the parts are not in use and the bottom portion of which is curved and in connection with which the segmental cam 32 on the main shaft operates.

Wound on each of the rods 68 is a strong spiral spring 76, the rear ends of which press on the stationary bearings 69 and the front ends of which press on the bearings 67 of the ink-roller shaft 65, and the operation of these springs under normal conditions is to hold the ink-roller at the limit of its forward movement, as shown in Fig. 1. Each of the slotted bars 63, which supports the ink-roller shaft, is provided at its rear end with a backwardly-directed hook 77, and connected with each of these hooks is a strong spiral spring 78, which extends upwardly and backwardly and each of which is connected with an upwardly-directed finger 79, secured to the corresponding curved side arm 43 of the main rocking frame, and these springs serve in the

operation of the machine hereinafter described to assist in operating the inking-roller and card or stencil frame.

5 The shaft 65, the side rods or bars 68, and the rear cross rod or bar 70 constitute a longitudinally-movable ink-roller frame, which is held normally at the limit of its forward movement by the springs 76 on the rods 68, and the bars 63 support and help to operate 10 the forward end of this frame, said bars being pivoted at 51, and in the backward-and-forward movement of said frame the ink-roller shaft moves in the slots 64 in said bars.

15 Pivotally connected with the right-hand curved arm 43 of the rocking frame is a forwardly-directed drop-finger 80, provided on the under side thereof and near its front end with a notch or recess 81, the rear wall of which is inclined downwardly and back- 20 wardly, as best shown in Figs. 6 and 7, and this drop-finger operates in connection with the fingers 29 and 30, which are provided with the inwardly-directed pins 31 at their outer ends.

25 The rocking shaft 58, which carries the forwardly-directed arms 59 and spring-finger 60, is also provided near the left-hand side of the machine with a downwardly and forwardly curved arm 82, which operates in connection 30 with the finger 35 on the main shaft, and loosely mounted on the cross-bar 44 at 83 is a forwardly-directed latch-arm 84, provided on its under side with a notch or recess 85, which is adapted in the operation of the ma- 35 chine to engage the main shaft, and said latch-arm 84 is provided on the left-hand side thereof with a flange 86, in connection with which a pin 87, secured to the arm 35, operates, these features of construction being 40 best shown in Figs. 3, 4, and 5.

Pivotally connected with the frame at the left-hand side of the machine and inside of the uprights 11 thereof, as shown at 88 in Fig. 1, is a bar 89, which is provided over 45 and slightly to the rear of the cam-disk 37 with an adjustable slotted finger 90, which is provided at its lower end with a roller 91, which extends inwardly and operates on or in connection with the cam-disk 37 and in 50 the groove at one side thereof formed by said disk and the cam-bar 40. The bar 89 is provided at its free end with an extension 92, pivotally connected therewith at 93, and pivotally connected with the extension 92 of the 55 bar 89 is a downwardly-directed slotted finger 94, which is adjustable longitudinally of the extension 92 by means of a pin 94^a, which operates in holes 94^b formed in said extension 92, and through the slot a shaft 95 passes, 60 said shaft being mounted in bearings 96, secured to the forward rear portion of the card or stencil receiver 20, and said shaft 95 is provided between the bearings 96 with an ink-reservoir 97, which is triangular in cross- 65 section, the bottom of which is perforated, as shown at 98. Inside of said ink-reservoir and resting on the bottom thereof is another per-

forated plate 99, by means of which the flow of ink may be regulated, and passing through 70 the front of the reservoir at 100 is a screw 101, which passes through a bearing 102, connected with the inner movable perforated plate 98, and by means of the screw 101 the said plate may be adjusted or moved on the 75 bottom of the ink-reservoir, as will be readily understood, and the bottom of the reservoir is provided with a covering or inking pad 103. At each side of the ink-reservoir the shaft 95 is provided with a spring-finger 95^a, and 80 these spring-fingers 95^a operate in connection with the fingers 54 on the spring-arms 53 at the front end of the card or stencil frame 46.

The bottom of the card or stencil receiver 20 is open and the front thereof is cut out 85 adjacent to each end to form notches or recesses 104, and secured over each of said notches or recesses is a plate-spring 105, the lower end of which is provided with an inwardly-directed tooth 106, and said teeth 106 90 pass inwardly through the notches or recesses 104 into the card or stencil receiver, and these notches or recesses 104 at the bottom of the receiver and the plate-springs 105, provided 95 at their lower ends with inwardly-directed teeth, are the same at both the front and rear sides of the card or stencil receiver and serve to receive the fingers 95^a in the operation of the machine, as hereinafter described.

100 Mounted on the lower horizontal rod 15 and forming a sliding bottom for the card or stencil box or holder is a sliding plate 107, provided with keepers 108, through which said rods pass, and said plate is provided on the 105 top thereof adjacent to its rear edge with a transverse stop 109 and at the rear edge with a raised dog 110, beneath which is a slot or opening 111, formed in said plate, and in the operation of the machine, as hereinafter de- 110 scribed, the upwardly-directed finger 62 on the central bar 65 of the card or stencil frame passes through the slot or opening 111, so as to operate the sliding plate 107 by engaging with the dog 110.

Pivoted to the drop-finger 80 at 112 is an 115 angular dog 113, which is flush with the inner side of said drop-finger and arranged to project into the notch or recess 81 in said drop-finger and provided with a head 98^a, which overlaps said drop-finger and is normally de- 120 pressed by a spring 115, secured to said finger at 114.

In using a machine of this class it is necessary to provide cards or stencils such as are shown at 116 in Fig. 8, and these cards or 125 stencils preferably consist of a frame 117, composed of any very thin but strong material, and a thin sheet 117, of similar material, but much thinner than the frame, is secured to said frame, and in this sheet the name of the party 130 to be addressed is formed by means of perforations, as shown in Fig. 8.

It will be understood that machines of this class are particularly adapted for use by vari-

ous trades, where a large number of the same correspondents are addressed frequently or at intervals of a week or number of weeks, and for this purpose the required cards or stencils are provided with the names of said correspondents in the manner described, and whenever it is desired to operate the machine a number of said cards or stencils are selected and placed in the card or stencil holder box 13, said cards or stencils being shown in the holder 13 in Fig. 5 and also in the card or stencil receiver 20, and in practice a weight 119 is preferably placed on the cards or stencils within the box or holder 13, said weight being provided with upwardly-directed loop-shaped handles 120, by which it may be removed when necessary and replaced in said box or holder whenever desired. It will also be understood that in practice the envelopes or other packages to be addressed are placed successively on the table 22, and the cards or stencils having been placed in the box or holder 13 the operation is as follows: Supposing that the normal position of the parts of the machine to be that in Fig. 1, as the crank is turned the main shaft revolves therewith, and the arm 33 on said shaft or the roller 34 on the end of said arm strikes the curved finger 74 on the link 72 and by means of said link and the bar 71 forces backwardly the ink-roller frame against the operation of the springs 76, and at one complete revolution of the shaft the inking-roller frame is again forced forwardly by the springs 76, and in this movement the ink-roller has passed twice over the card-holder frame 46. Before beginning this operation the first card or stencil is placed on the spring-fingers 60 and rests also on the flanges 52 of the stencil or card frame, and the ink-roller in passing over the same inks the perforated name thereon and the ink passes through said perforations onto the envelop to be addressed. As the main shaft continues to revolve the shaft 96, supported in the bearings 95, connected with the stencil or card receiver, is also turned backwardly by the bar 89, which is raised by the pin 91 of the finger 90 moving in the cam slot or groove 41, and the spring-fingers 95^a, connected with said shaft, move backwardly and raise the fingers 54 at the ends of the springs 53, which project over the front edge of the card or stencil, and said spring-fingers 60 are raised by the arm 35 on the main shaft striking the finger or arm 89 on the shaft 58, which carries the arms 59, with which said fingers 60 are connected, and as said spring-fingers 60 continue to rise they force the cards or stencils up into the receiver 20, and as the main shaft continues to revolve the shaft 96 turns in the forward direction by means of the bar 89 and its connections, and the fingers 95^a are forced farther up into the position shown in Fig. 7 and force the card or stencil up into said receiver 20 above the spring-catches 106, which receive and hold said card or stencil

within the receiver 20, and at this time the spring-fingers 60 drop back into the position shown in Fig. 3. At the end of the above-described operation the arm 84, which serves as a latch for the rocking frame, is raised by the inwardly-directed pin 87 on the arm 35, and as the main shaft continues to revolve the segmental cam 31 strikes the cam 75 on the rocking shaft 42, which supports the rocking frame, and as said shaft is turned backwardly the rocking frame also moves backwardly and the bracket 56, which carries the shaft 58, with which the arms 59 are connected, moves upwardly and backwardly over the inclined guide 17 and at the same time the card or stencil frame 46, pivoted to the front of the rocking frame at 51, also moves upwardly and backwardly, and at a predetermined phase of this movement the finger 62 engages with the dog 110 upon the slide 107 and moves said slide backwardly from its position beneath the card or stencil holder 13, and at the same time the card or stencil frame 46 and the spring-fingers 60 pass beneath the card or stencil holder, and the spring-fingers 54 engage with the bottom of the card or stencil holder and are forced backwardly, so that the bottom card or stencil may drop upon the spring-fingers 60 and upon the flanges 52 of the card or stencil frame, and at this time the slide 17 is at its rearmost position. It will be understood that in this position of the parts the springs 76 and gravity operate to force the ink-roller frame forwardly and the springs 78 to hold the card or stencil frame in close contact with the bottom of the card or stencil holder 13, and it will also be understood that during this movement the ink-roller passes backwardly beneath the ink-reservoir 97 and in contact with the pad 99, and in the upward and backward movement of the ink-roller the ends of the shaft to which it is secured pass under the guides 21, which serve to hold said roller in proper position and prevent it from being thrown up by the springs 78. It is also necessary to prevent the rocking frame and ink-roller frame and parts connected therewith from dropping forwardly too quickly at this time, and for this purpose the dog 113 is provided, which projects downwardly into the notch or recess 81, as shown in Fig. 6, and this dog, which is connected with the drop-finger 80, presses against the pin 31 in the arm 29 on the disk 28 at this time and accomplishes the above object, and as the disk 28 continues to revolve the pin 31 on the arm 30 raises the drop-finger 80 and permits the frame above specified to move forward into the position shown in Fig. 6. The front end of the ink-roller frame is supported in the slotted bars 63, and the springs 78 during the above-described operation serve to hold said roller in contact with the bottom of the ink-reservoir, and as the main shaft continues to revolve the ink-roller again passes forwardly beneath said pad, the card or stencil frame is also forced forwardly and

drops onto the table 22, the card or stencil removed from the box or holder resting thereon, and during this operation the drop-finger 80 engages with the pin 31, connected with the finger 29, and regulates the forward movement of the parts above described, and the purpose of said drop-finger is to prevent the springs 76 and 78 from forcing the ink-roller frame and card-frame forwardly too quickly and to make the movement of said parts regular. As the main shaft continues to revolve the pin 31 on the finger 30 raises the drop-finger 80 out of engagement with the finger 29, so as to permit of the further operation of these parts. This finishes one complete operation of the machine, and it will be understood that this operation may be repeated by simply turning the crank 27 as long as there are any cards or stencils in the card-holder, and it will also be understood that the envelopes or other packages are continuously and successively placed on the table 22 each time that a card or stencil is placed thereover and inked by the inking-roller.

My improved addressing-machine is simple in construction and operation and is perfectly adapted to accomplish the result for which it is intended, and it will be apparent that many changes in and modifications of the construction herein shown and described and in the shape and form of the various parts thereof may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a machine of the class described, a main shaft, a rocking frame, a spring-actuated card or stencil frame in operative connection with the rocking frame, a spring-actuated ink-roller frame in operative connection with the rocking frame, devices connected with the main shaft for operating the rocking frame, a drop-finger in operative connection with the rocking frame, and a disk connected with said main shaft and provided with fingers having pins which operate in connection with said drop-finger, substantially as shown and described.

2. In a machine of the class described, a frame or support, a main shaft mounted therein, a rocking frame mounted rearwardly of said main shaft, a spring-actuated card or stencil frame pivotally connected with said rocking frame, means for holding the card or stencil on said card or stencil frame, bars connected with said card or stencil frame and extending backwardly and connected by a shaft, a backwardly-directed guide over which said shaft is adapted to move, and forwardly-directed arms connected with the ends of said shaft and provided with spring-fingers which project over said card or stencil frame, substantially as shown and described.

3. In a machine of the class described, a frame, a main shaft mounted therein, a rock-

ing frame mounted rearwardly of said main shaft and adapted to move forwardly and backwardly, a latch device connected with said rocking frame and operating in connection with the main shaft to prevent the movement of the rocking frame at a predetermined time, and a drop device connected with the rocking frame and operating in connection with the main shaft to draw said rocking frame forwardly at a predetermined time, substantially as shown and described.

4. In a machine of the class described, a frame, a rocking frame mounted therein adapted to move forwardly and backwardly, a spring-actuated card or stencil frame pivotally connected with said rocking frame and adapted to move backwardly and forwardly therewith, a spring-actuated roller-frame connected with said rocking frame and adapted to move forwardly and backwardly independently thereof and to swing therewith, and means for operating said parts, substantially as shown and described.

5. In a machine of the class described, a frame provided with a card or stencil holder having a slide-bottom, a card or stencil receiver mounted in front of said holder and having an open bottom, a rocking frame mounted beneath said holder, a spring-actuated card or stencil frame pivotally connected with said rocking frame and provided with means for actuating the slide-bottom of the holder, a longitudinally-movable spring-actuated ink-roller frame mounted in said rocking frame and adapted to move independently thereof and also to move therewith, a swinging ink-reservoir mounted in front of the card or stencil receiver, devices connected with said card or stencil frame for removing a card or stencil from said holder, and other devices connected with said card or stencil frame and with the ink-reservoir for placing said card or stencil in said receiver, substantially as shown and described.

6. In a machine of the class described, a main frame, a card or stencil holder supported thereby and provided with a slide-bottom, a rocking frame, a card or stencil frame pivoted thereto, a guide connected with the main frame, and means for operating said rocking frame, whereby said card or stencil frame is caused to travel upon said guide and engage said slide-bottom of the holder to move the same from its normal position, substantially as shown and described.

7. In a machine of the class described, a card or stencil holder provided with a slide-bottom, a card or stencil receiver in front thereof and provided with an open bottom, and with spring-actuated devices for holding a card or stencil therein, a rocking frame, a card or stencil frame pivoted thereto and provided with pivoted discharge devices, means for operating said rocking frame, whereby said slide-bottom is moved from normal position, and said card or stencil frame is brought into position to receive a card or stencil from

said card or stencil holder, and means for operating said pivoted discharge devices, whereby the card or stencil is moved into a position to be received by said card or stencil receiver, and means for depositing said card or stencil within said card or stencil receiver, substantially as shown and described.

8. A machine of the class described, comprising a suitable frame or support a main shaft mounted therein a card or stencil receiver in front of said holder, a table or support beneath said receiver, a main rocking frame a card or stencil frame in operative connection with the main rocking frame and adapted to be moved beneath said card or stencil holder and to receive a card or stencil therefrom and to place the same upon the table or support, a spring-operated and longitudinally-movable ink-roller frame, also in operative connection with the main rocking frame and adapted to move the ink-roller over said card or stencil, means for inking said roller, and devices in operative connection with said main shaft and said main rocking frame for operating said parts, substantially as shown and described.

9. A machine of the class described, comprising a frame, a main shaft mounted therein, a card or stencil holder, a card or stencil receiver, a table or support arranged in a plane beneath said holder and said receiver, a movable card or stencil frame, in connection with the rocking frame, means for operating said card or stencil frame whereby it initially moves into position to receive a card or stencil from said card or stencil holder, secondarily moves into a position upon said table or support, and finally into a position wherein the card or stencil is received by said card or stencil receiver, an ink-supply, and means for supplying ink to the card or stencil when the card or stencil is upon said table or support, substantially as shown and described.

10. A machine of the class described, comprising a frame, a main shaft journaled therein, a card or stencil holder, and a card or stencil receiver supported in the upper portion of said frame the receiver being in front of the holder, a table or support arranged forwardly of and beneath said card or stencil receiver, a main rocking frame in connection with the main shaft, a movable card or stencil frame in connection with the rocking frame an ink-reservoir, a movable spring-operated ink-roller frame also in connection with the rocking frame and devices operated by said main shaft whereby said rocking frame is operated and the card or stencil frame is initially moved into a position to receive a card or stencil from said card or stencil holder, secondarily into a position upon said table or support, and finally into a position wherein the card or stencil is received by the card or stencil receiver, and devices whereby said ink-roller frame is operated at a predetermined phase of the operation of the card or

stencil frame to ink the card or stencil, substantially as shown and described.

11. In a machine of the class described, a frame, a main shaft journaled therein, a main rocking frame in operative connection with said shaft, a card or stencil holder, a card or stencil receiver, a movable card or stencil frame, in operative connection with the rocking frame and formed to receive a card or stencil from the card or stencil holder, and embodying discharging members upon which the card or stencil directly rests, locking devices whereby the card or stencil is locked to the card or stencil frame, means for throwing said locking devices out of operation, and means for operating said discharging members to remove the card or stencil from the card or stencil frame and pass the same into the card or stencil receiver, substantially as shown and described.

12. In a machine of the class described, a frame, a main shaft mounted therein a main rocking frame in operative connection with said shaft a card or stencil holder, a card or stencil receiver, a movable card or stencil frame, in connection with the rocking frame and which receives the stencil from the stencil-holder, locking devices whereby the card or stencil is locked to the card or stencil frame, an ink-reservoir mounted adjacent said card or stencil receiver, an ink-roller frame, in operative connection with the rocking frame and arranged to pass over said card or stencil frame and to ink the card or stencil thereon, and means for simultaneously operating said card or stencil frame to move the same in position to receive a card or stencil from said card or stencil holder, and for operating said ink-roller frame to engage the roller with the ink-reservoir, substantially as shown and described.

13. In a machine of the class described, a frame, a main shaft journaled therein, a main rocking frame in connection with said shaft, a stencil or card holder, a stencil or card receiver, a table or support beneath said receiver, a card or stencil frame adapted to receive a card or stencil from said holder and place it upon said table, a swinging ink-reservoir provided with a pad, a movable spring-operated inking-roller, said reservoir, said roller and said card or stencil frame being all in operative connection with the rocking frame, substantially as shown and described.

14. In a machine of the class described, a frame or support, a card or stencil holder, a card or stencil receiver, a table beneath said receiver, a main shaft, a rocking frame, a card or stencil frame in operative connection with said rocking frame, a longitudinally-movable spring-operated ink-roller frame in operative connection with said rocking frame, a swinging ink-reservoir supported by said receiver, and devices in operative connection with said main shaft for operating the rocking frame, the card or stencil frame, the ink-

roller frame, and said reservoir, substantially as shown and described.

15. In a machine of the class described, a frame or support, a main shaft mounted therein, a card or stencil holder over said main shaft, a card or stencil receiver in front of said holder, a swinging ink-reservoir supported by said receiver, a rocking frame in operative connection with the main shaft, a longitudinally-movable and spring-operated card or stencil frame in operative connection with said rocking frame and adapted to receive a card or stencil from said holder and place it upon said table, a spring-operated longitudinally-movable ink-roller frame in operative connection with said rocking frame and provided with a roller adapted to receive ink from said reservoir and to ink said card or stencil, and devices operating in connection with said card or stencil frame so as to place said card or stencil in said receiver, substantially as shown and described.

16. In a machine of the class described, a main shaft a rocking shaft, a rocking frame connected with said rocking shaft, a card or stencil frame in operative connection with said rocking frame, a spring-operated ink-roller frame in operative connection with said rocking frame, a swinging ink-reservoir in operative connection with said main shaft, and devices connected with said main shaft and said rocking shaft for operating said rocking frame, substantially as shown and described.

17. In a machine of the class described, a frame, a main shaft, a card or stencil holder, a card or stencil receiver, a rocking shaft, a rocking frame connected with said rocking shaft, a card or stencil frame in operative connection with said rocking frame, a spring-operated ink-roller frame in operative connection with said rocking frame, a swinging ink-reservoir in operative connection with said main shaft, and devices connected with said main shaft and said rocking shaft for operating said rocking frame, and a rod or arm pivotally connected with the rocking frame and operating in connection with the main shaft, substantially as shown and described.

18. In a machine of the class described, a main shaft, a swinging ink-reservoir, a pivotally-supported bar in operative connection with said reservoir, a cam-disk on the main shaft, and a finger connected with said bar and provided with a pin which is operated upon by said cam-disk, substantially as shown and described.

19. In a machine of the class described, a main shaft, a rocking frame, a longitudinally-movable spring-operated ink-roller frame mounted in said rocking frame, a pivotally-supported link in operative connection with said ink-roller frame and provided with a curved finger, and an arm connected with the main shaft and operating in connection with

said finger to move said ink-roller frame, substantially as shown and described.

20. In a machine of the class described, a frame, a main shaft therein, a rocking frame operated by the main shaft a card or stencil holder, a card or stencil receiver, a card or stencil frame, operated by the rocking frame and devices operated by the main shaft and rocking frame whereby the card or stencil frame is raised into position to receive a card or stencil from the card or stencil holder, an ink-roller frame, devices operated by the main shaft and rocking frame for operating the same to ink a card or stencil in the card or stencil frame, devices operating in connection with the main shaft for locking the rocking frame during the movement of the ink-roller frame, and devices operating in connection with the main shaft for returning the rocking frame after the movement thereof, whereby the card or stencil frame receives a card or stencil from the card or stencil holder, substantially as shown and described.

21. In a machine of the class described, a frame, a main shaft mounted therein, a swinging ink-reservoir, a bar pivotally connected with said frame, a cam-disk mounted on said shaft and adapted to operate said bar, a member pivotally connected with said bar, and a finger pivotally connected with said member and adapted to operate said ink-reservoir, substantially as shown and described.

22. In a machine of the class described, a main shaft a rocking frame adapted to move forwardly and backwardly and operated by the main shaft and a spring-actuated ink-roller frame mounted therein and adapted to move forwardly and backwardly independently thereof and also to swing therewith, and means for operating said ink-roller frame independent of the means for operating the rocking frame, substantially as shown and described.

23. In a machine of the class described, a card or stencil frame provided rearwardly thereof with a movable shaft supported by bars connected therewith arms connected with said shaft and projecting in the direction of said frame, spring-fingers connected with said arms and extending over said frame, and spring-arms provided with backwardly-directed fingers connected with the front edge of said frame, said frame being open and provided at its opposite sides with inwardly-directed flanges, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 30th day of April, 1900.

HERMAN F. NEHR.

Witnesses:

C. C. OLSEN,
F. A. STEWART.