No. 888,333. PATENTED MAY 19, 1908.

H. E. JOHNSON.

STAMPING MACHINE.

APPLICATION FILED MAY 18, 1907.

3 SHEETS—SHEET 1.

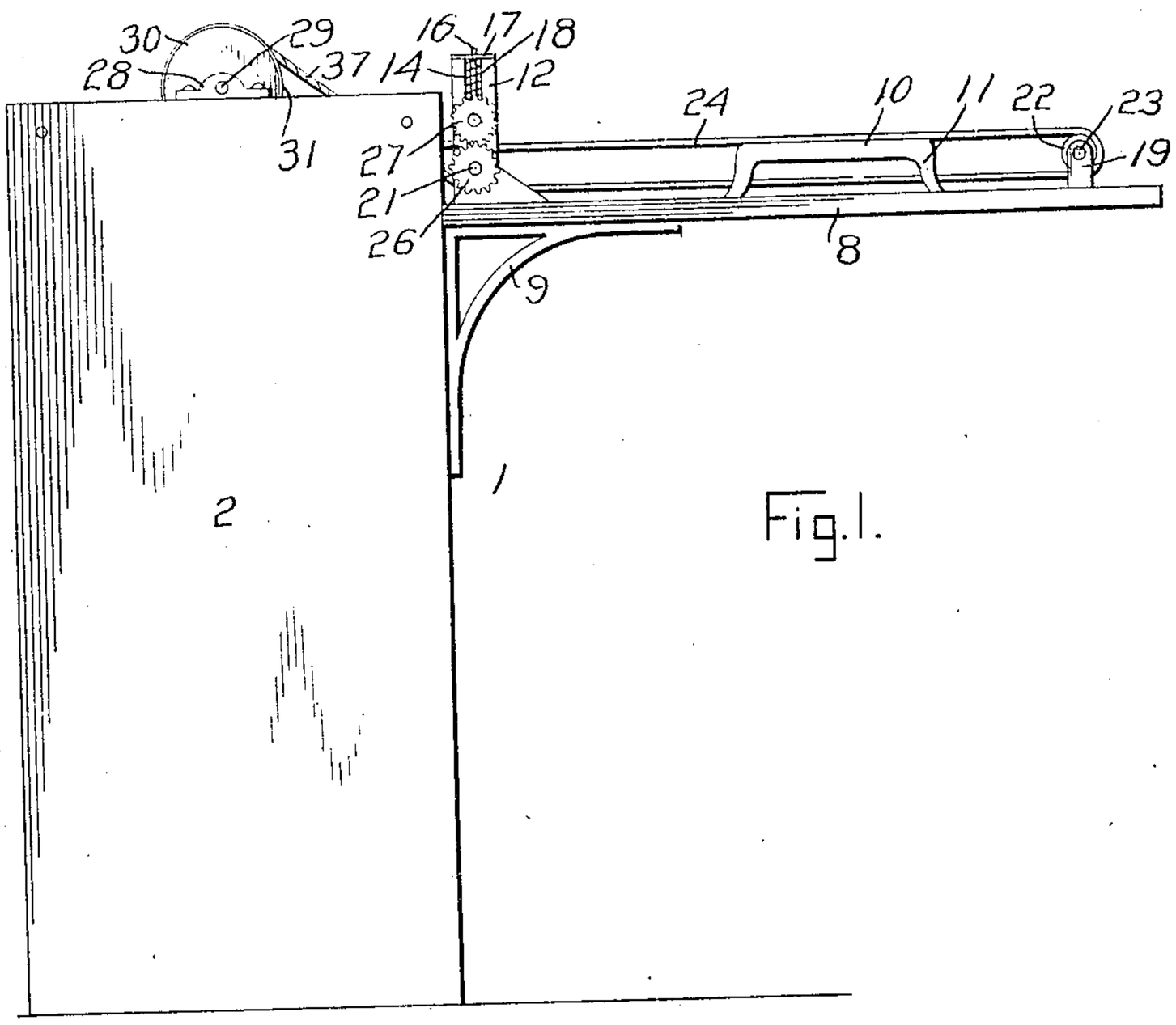

Fig. 1.

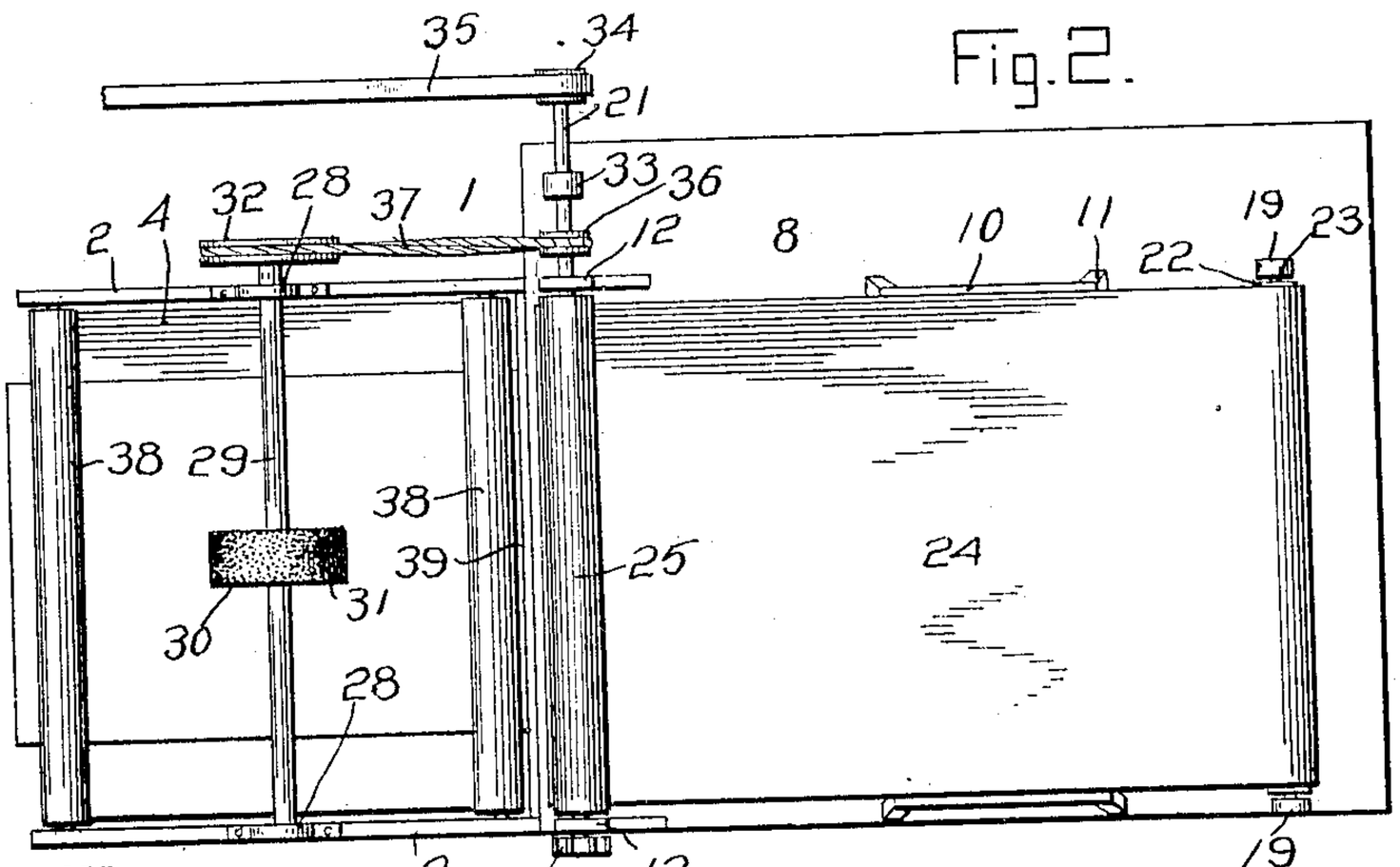

Fig. 2.

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3 SHEETS—SHEET 2.

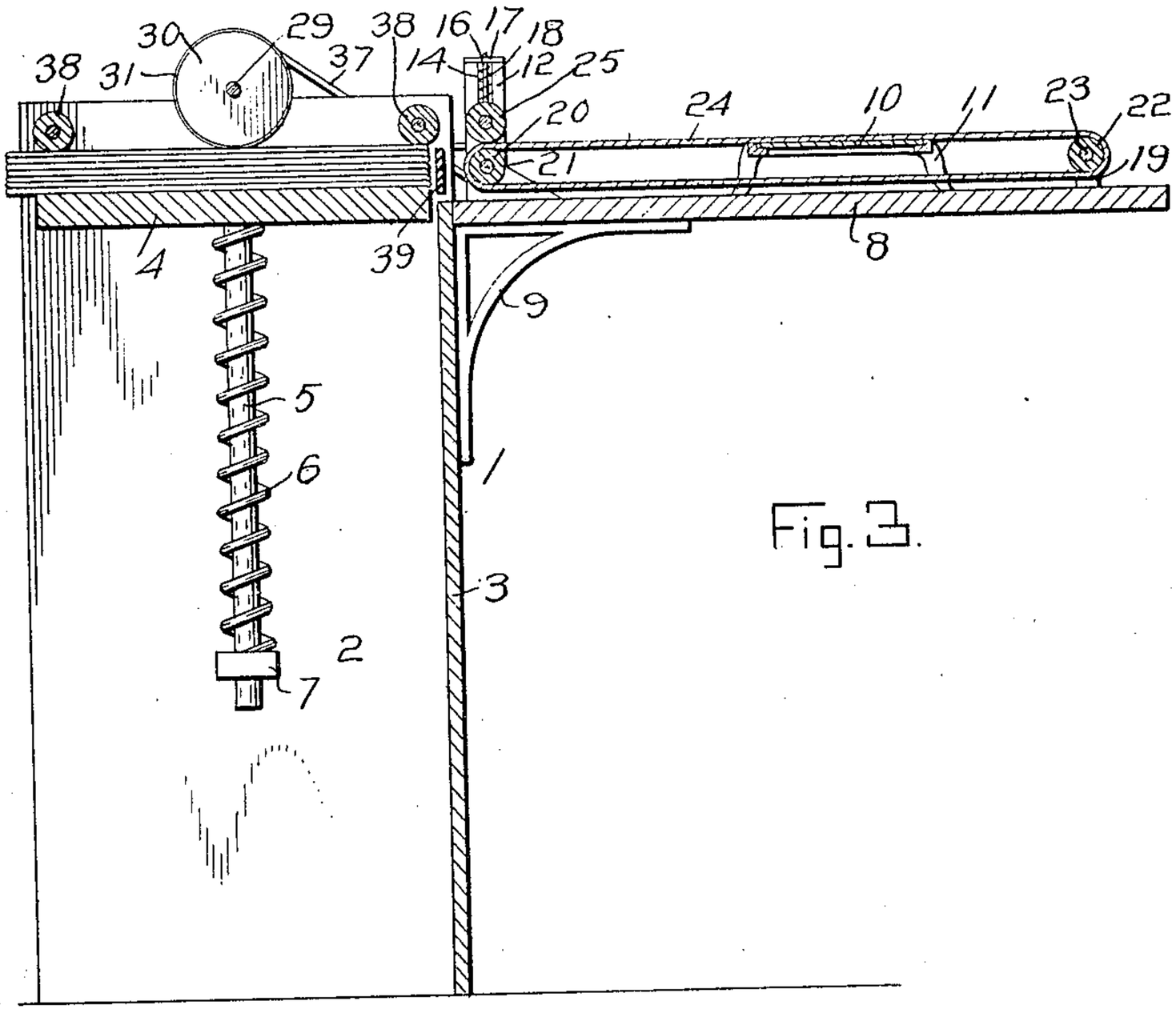
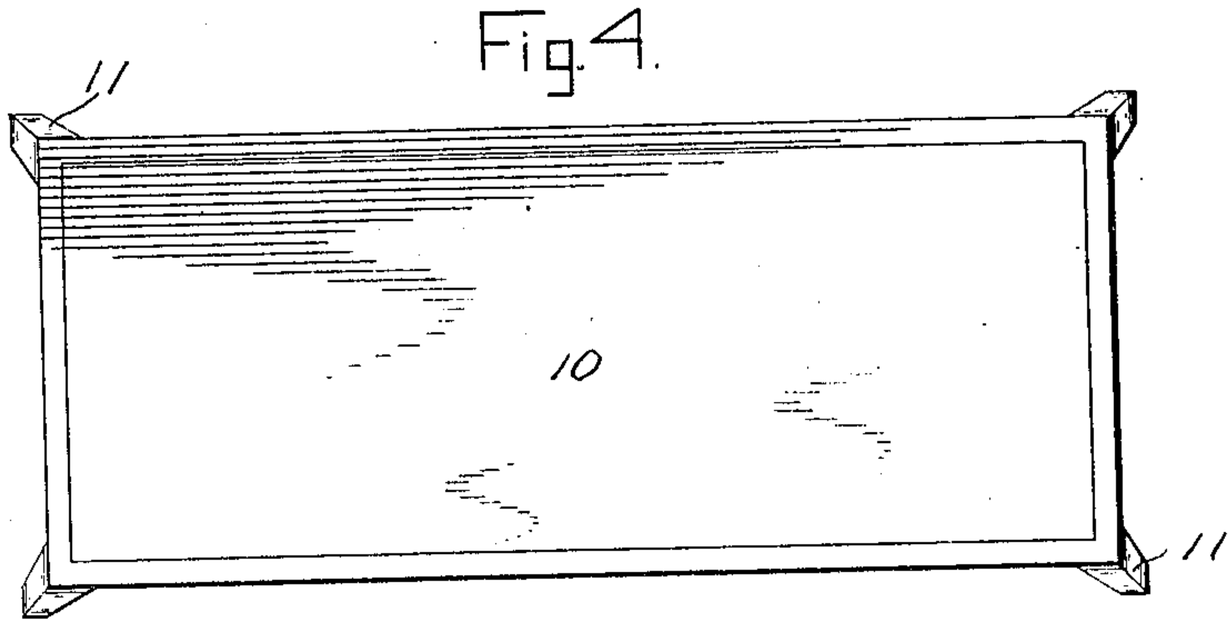


Fig. 3.

Fig. 4.



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3 SHEETS—SHEET 3.

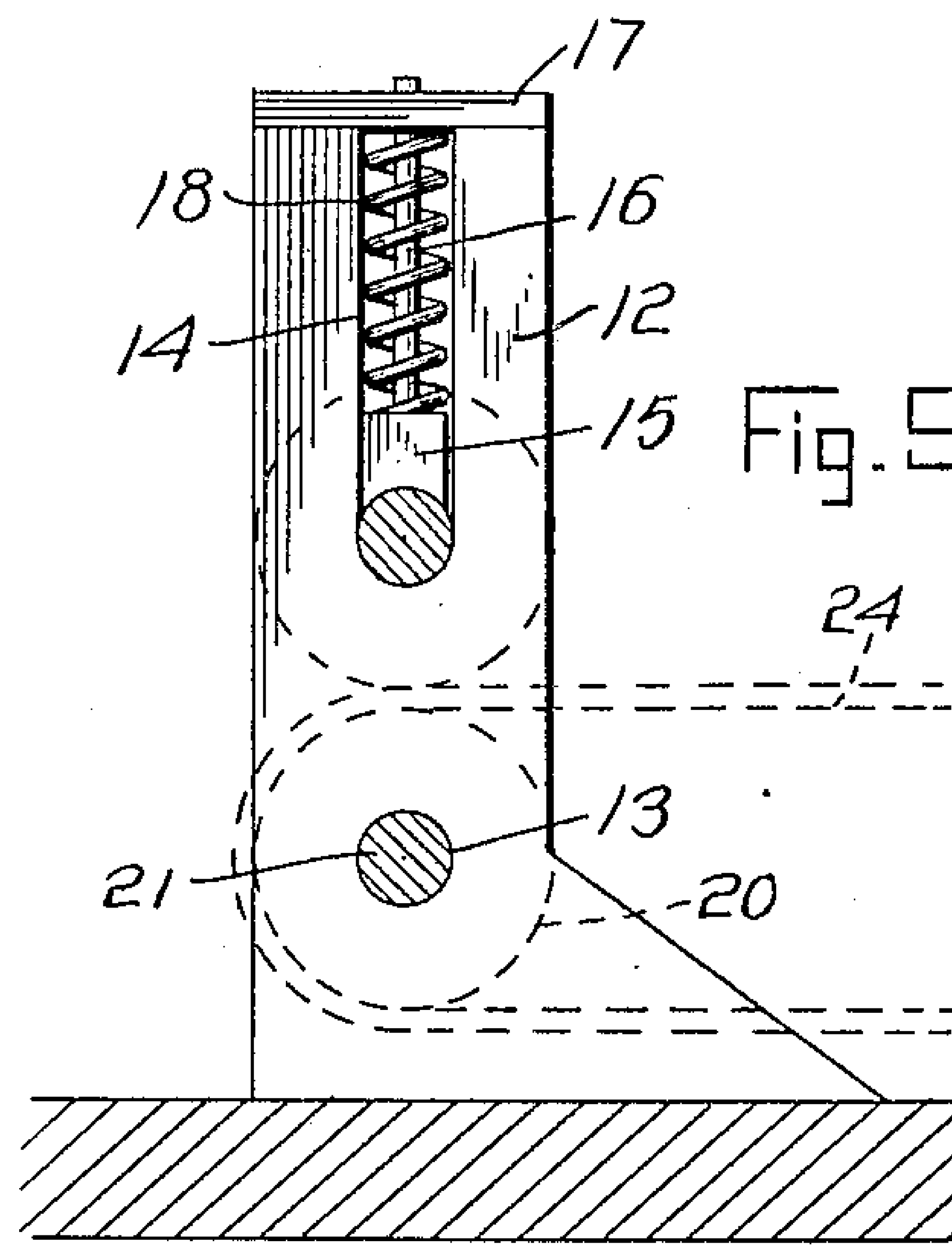

Fig. 5.

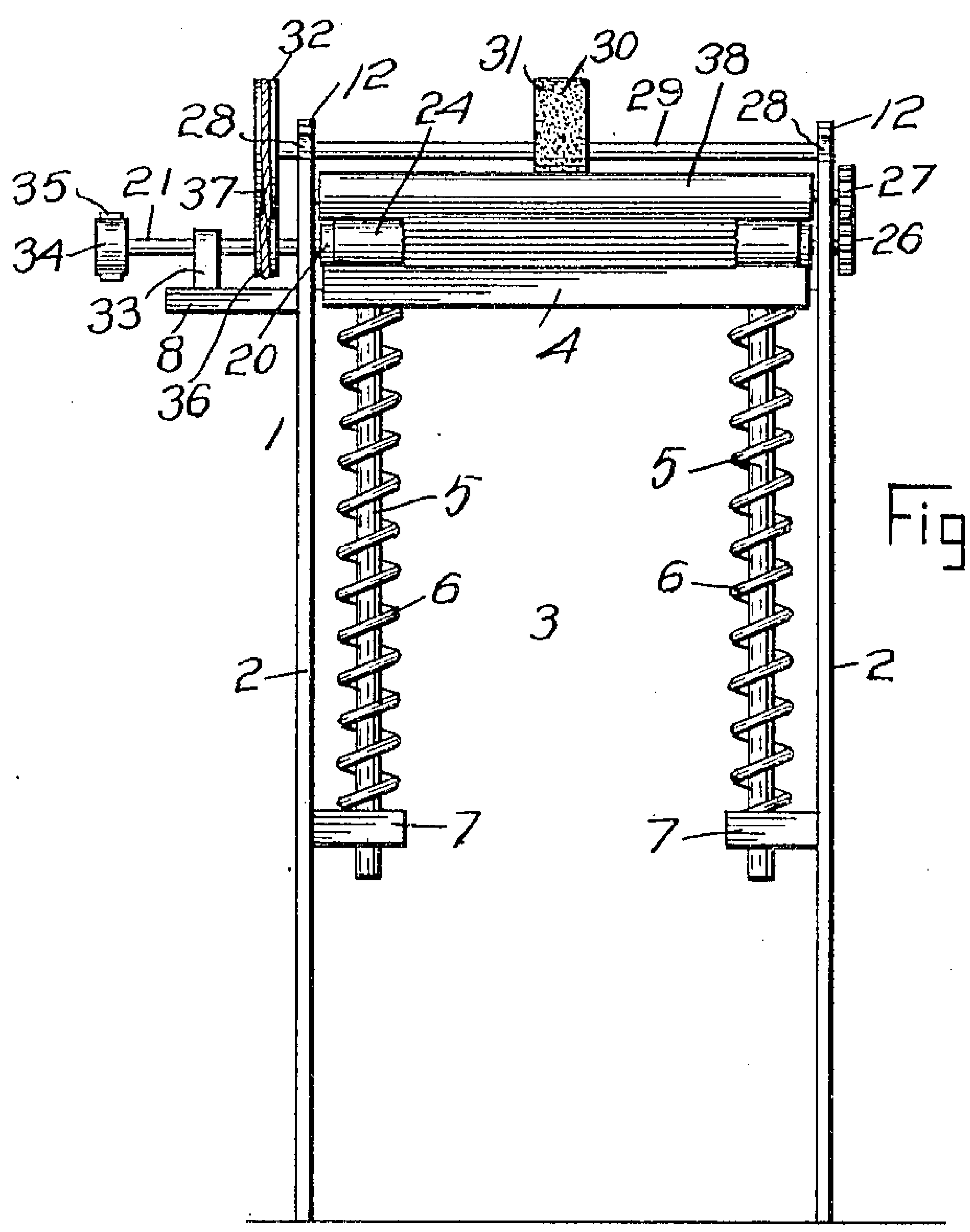

Fig. 6.

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HADFIELD E. JOHNSON, OF CLITHERALL, MINNESOTA.

STAMPING-MACHINE.

No. 888,333. Specification of Letters Patent. Patented May 19, 1908.

Application filed May 18, 1907. Serial No. 374,357.

To all whom it may concern:

Be it known that I, HADFIELD E. JOHNSON, a citizen of the United States, residing at Clitherall, in the county of Ottertail, State of Minnesota, have invented certain new and useful Improvements in Stamping-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in machines for stamping envelops and it has particular reference to the envelop feeding mechanism of such machines and in connection with which any conventional mechanism for affixing the stamps may be employed.

Generally speaking the invention comprises an envelop magazine in which is a spring pressed follower, an endless conveyer operating between said magazine and a stamping table employed conjunctively with the stamping mechanism and means for delivering the envelops singly to said conveyer.

In connection with a machine of the above type the invention aims as a primary object to provide a novel construction, combination, and arrangement of parts, the details of which will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:

Figure 1 is a side elevation of a feeding mechanism constructed in accordance with the present invention. Fig. 2 is a top plan view thereof. Fig. 3 is a central vertical longitudinal section thereof. Fig. 4 is a top plan view of the stamping table employed in connection with the stamping mechanism, the latter not being shown since it may be of conventional form. Fig. 5 is a vertical sectional view illustrating the construction of the bearings for superposed rollers to be hereinafter specifically referred to. Fig. 6 is an end elevation of the envelop magazine and its associated parts, looking at the end opposite to that from which the conveyer works.

Referring specifically to the accompanying drawings the numeral 1 designates an envelop magazine which is constituted of a vertical rectangular open ended box having its side walls 2 projected above its end walls 3. Within the box 1 is a conformable follower plate 4, arranged for vertical sliding movement and formed with depending legs 5 with which follower plate are engaged the upper ends of helical coil springs 6, the latter being engaged at their lower ends with suitable stationary brackets 7 supported from the ends or sides of the magazine 1.

From the front end of the magazine 1 a platform 8 is supported by means of brackets 9 and upon the platform 8 is a suitably constructed stamping table 10, having spaced depending legs 11 at its corners. At the rear end of the platform 8 are supported alined bearings 12 formed in their lower portions with registering openings 13 and in their upper portions with vertical recesses 14 extending from the edge thereof. Disposed within the recesses 14 are vertical slidable bearing blocks 15 which are formed with shanks 16, the latter being projected through plates 17 fastened upon the upper ends of the bearings 12. Surrounding the shanks 16 are expansive coil springs 18 which bear with their ends against the blocks 15 and the plates 17. Alined bearings 19 are mounted at the forward end of the platform 8. A roller 20 has its shaft 21 projected through the openings 13 in the bearings 12, and a roller 22 has the ends of its shaft 23 journaled in the bearings 19. An endless conveyer belt 24 is trained over the rollers 20 and 22 and has movement above and below the stamping table 10. A soft rubber roller 25 has its shaft journaled in the bearings afforded by the recesses 14 and the blocks 15. The shaft 21 carries at one end thereof a pinion 26 and the shaft of the roller 25 carries at one end thereof a pinion 27, in mesh with the pinion 26 and by means of which the roller 25 is driven from the roller 20. From the upper edges of the sides 2 bearings 28 are supported and in which is journaled a transverse shaft 29 carrying between said bearings a feeding wheel 30 having a roughened periphery 31 for frictionally gripping the surface of the envelop. The periphery 31 may be constituted of a strip of sand paper. The shaft 29 projects at one end and carries on its projecting end a pulley 32. The shaft 21 likewise has a projecting end which is journaled in a bearing 33, fixed upon the platform 8. On its projecting end the shaft 21 carries a pulley 34 which is driven by a belt or chain 35 from a suitable motor (not shown.) The shaft 21 likewise carries

a second pulley 36, which drives the shaft 29 by means of a crossed belt 37 connecting the pulleys 36 and 32.

For the purpose of preventing the envelops from being pushed beyond the magazine by the follower 4, transverse rollers 38 are provided which have their ends journaled in the sides 2. The rollers 38 are arranged at each end of the magazine and also serve to prevent the envelops from becoming irregularly disposed in their superposed relation. Beneath the foremost of the rollers 38 a transverse flexible rubber strip 39 is provided which serves as a stop to prevent the wheel 30 from feeding more than one envelop at a time between the rollers 20 and 25, and which also serve as a support for the envelop as it passes to said rollers.

In operation the follower 4 automatically feeds the envelops to the wheel 30 as will be readily understood. The latter is driven through the connections described from the shaft 21 and with its gripping surface 31 engages the envelops in their individual successive order and feeds them forwardly over the strip 39 a sufficient distance for their edge to project between the soft rubber friction roller 25 and the belt 24. By means of this mechanism the envelops are successively delivered upon the belt and over the stamping table 10. It is preferred to employ in connection with the stamping table the mechanism of my prior patent 833,742, granted October 23, 1906.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention but, while the elements herein shown and described are well adapted to serve the functions set forth it is obvious that various minor changes may be made in the proportions, shape, and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed, is:

An envelop feeding mechanism comprising a rectangular box having an open upper end, a feeding roller mounted transversely between the sides of said box, stop rollers mounted transversely between the sides of said box on each side of said feeding roller, a transverse flexible rubber strip mounted between the sides of said box adjacent one end thereof, and an endless conveyer mounted adjacent said rubber strip to receive the envelops successively fed from said box.

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

HADFIELD E. JOHNSON.

Witnesses:
L. W. Clark,
H. E. Robbin.