

No. 681,084.

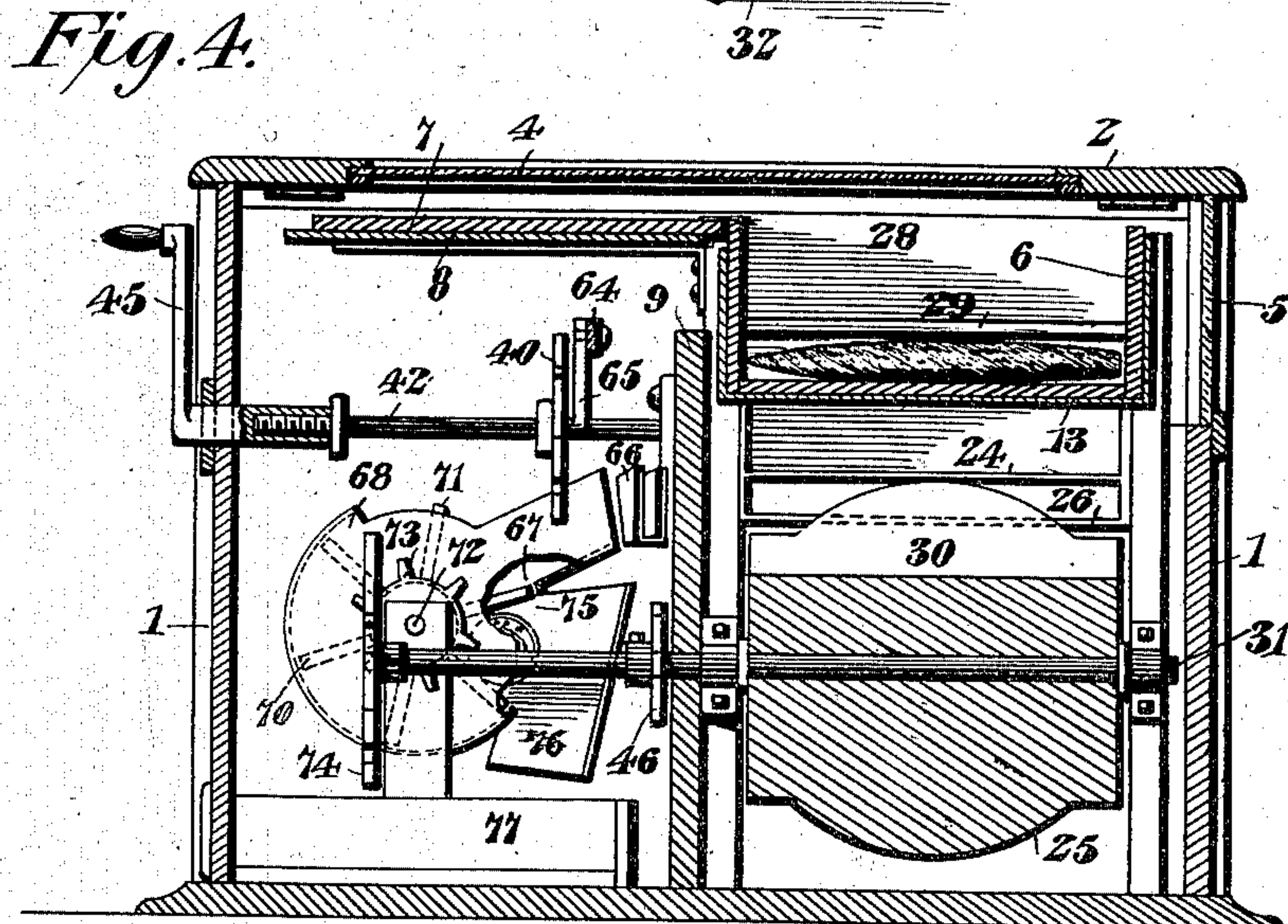
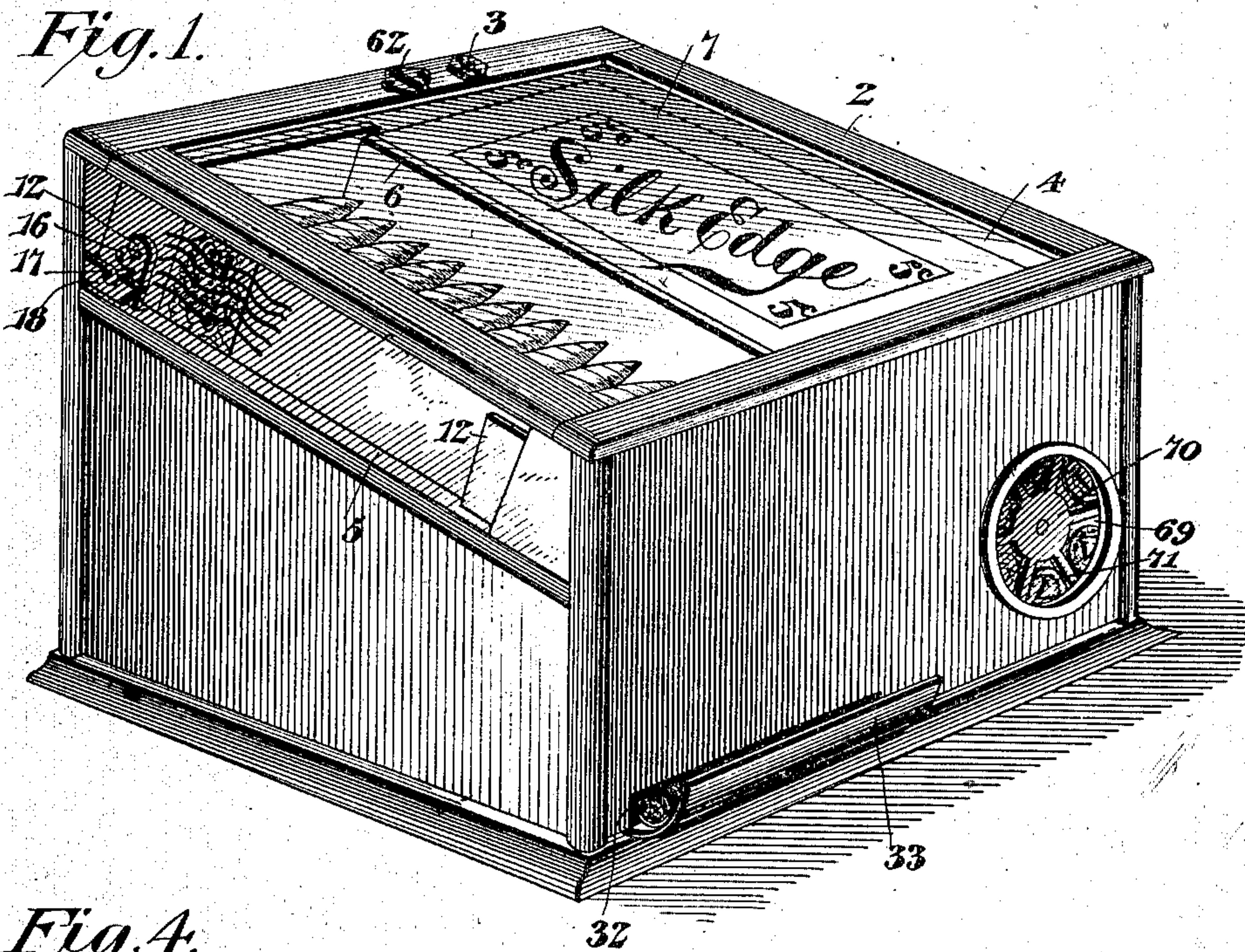
Patented Aug. 20, 1901.

W. TRIBBLE.
COIN CONTROLLED VENDING MACHINE.

(Application filed Mar. 3, 1900.)

(No Model.)

3 Sheets—Sheet 1.



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3 Sheets—Sheet 2.

Fig. 2.

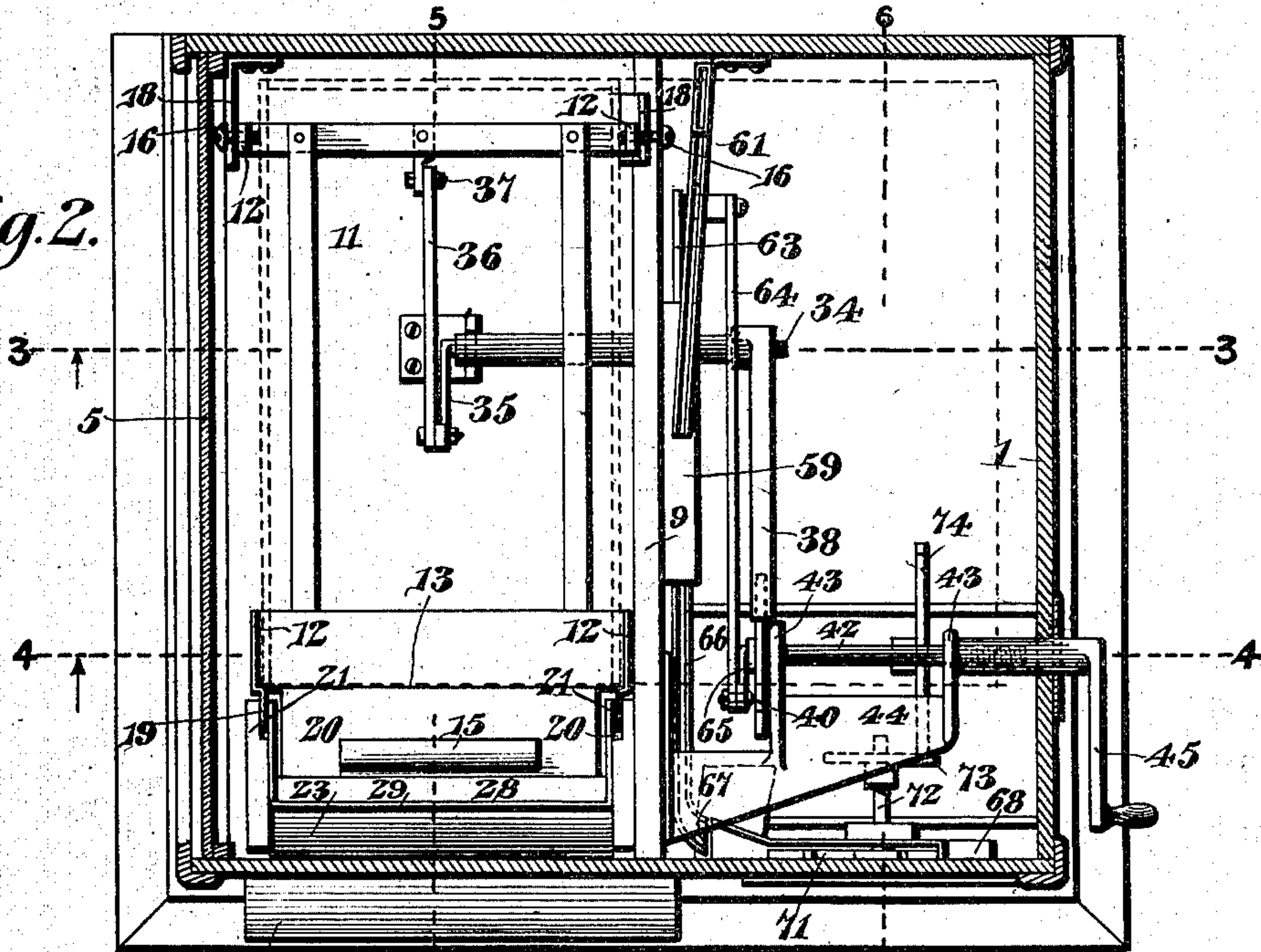
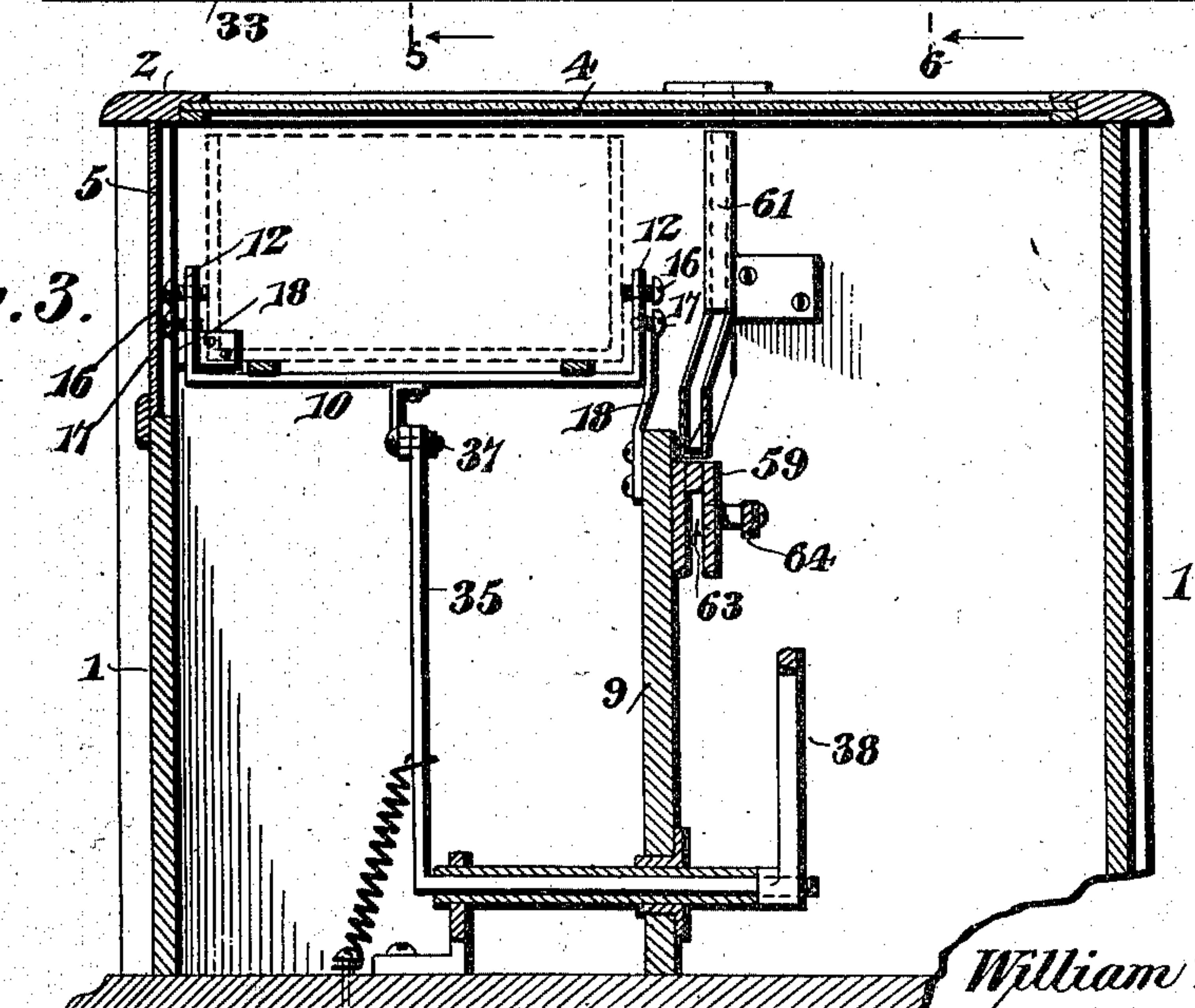


Fig. 3.



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3 Sheets—Sheet 3.

Fig. 6.

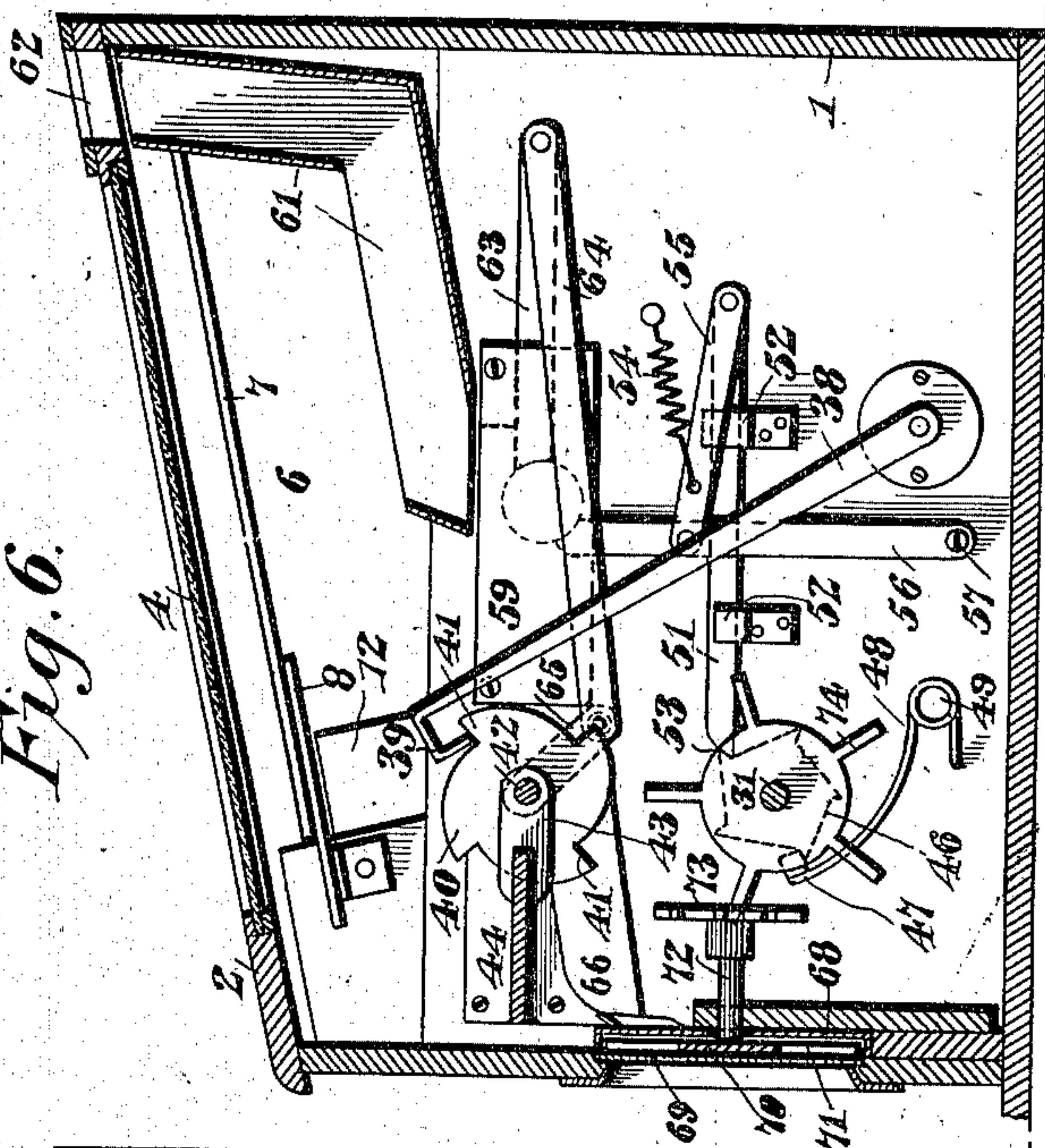


Fig. 5.

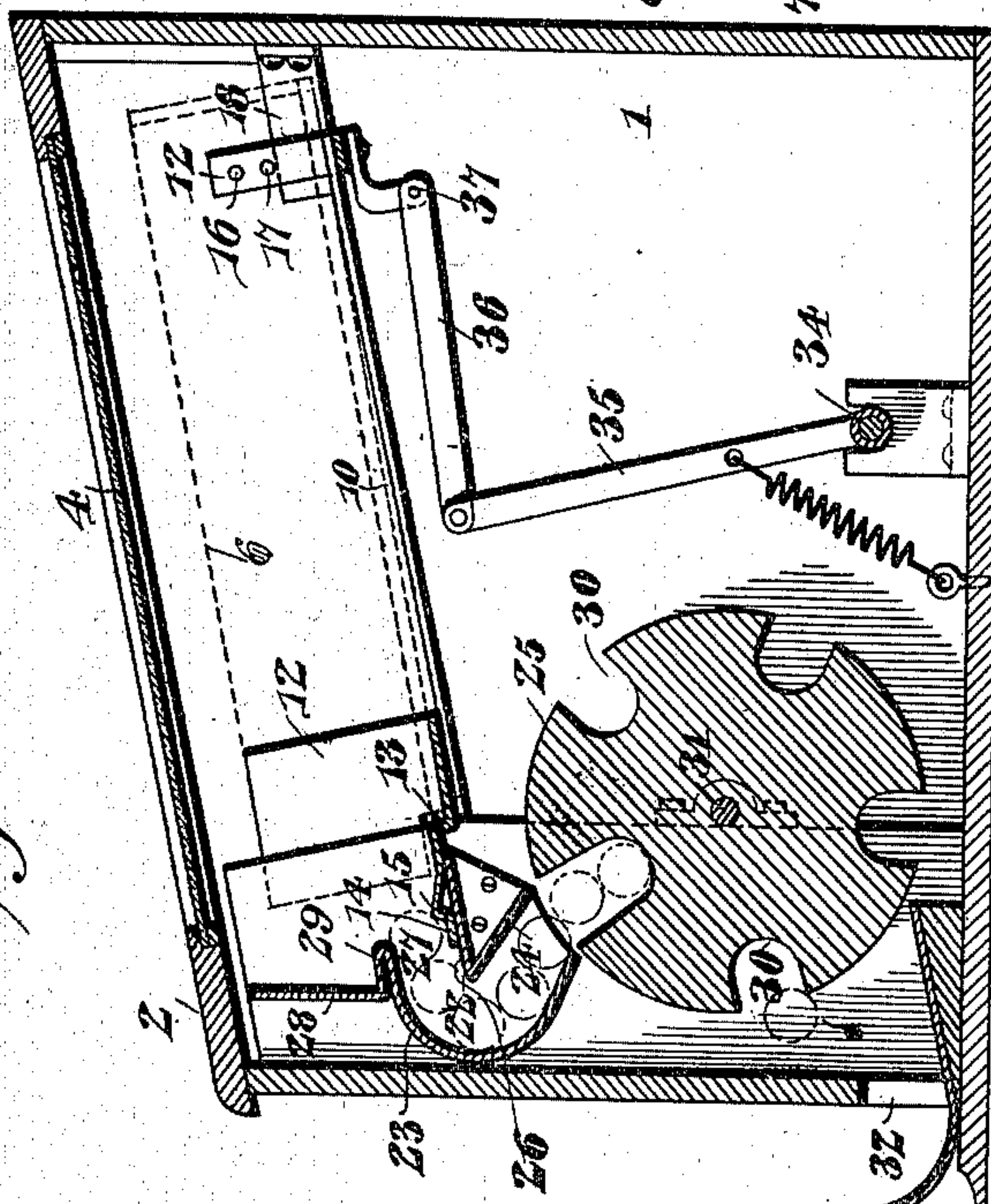


Fig. 8.

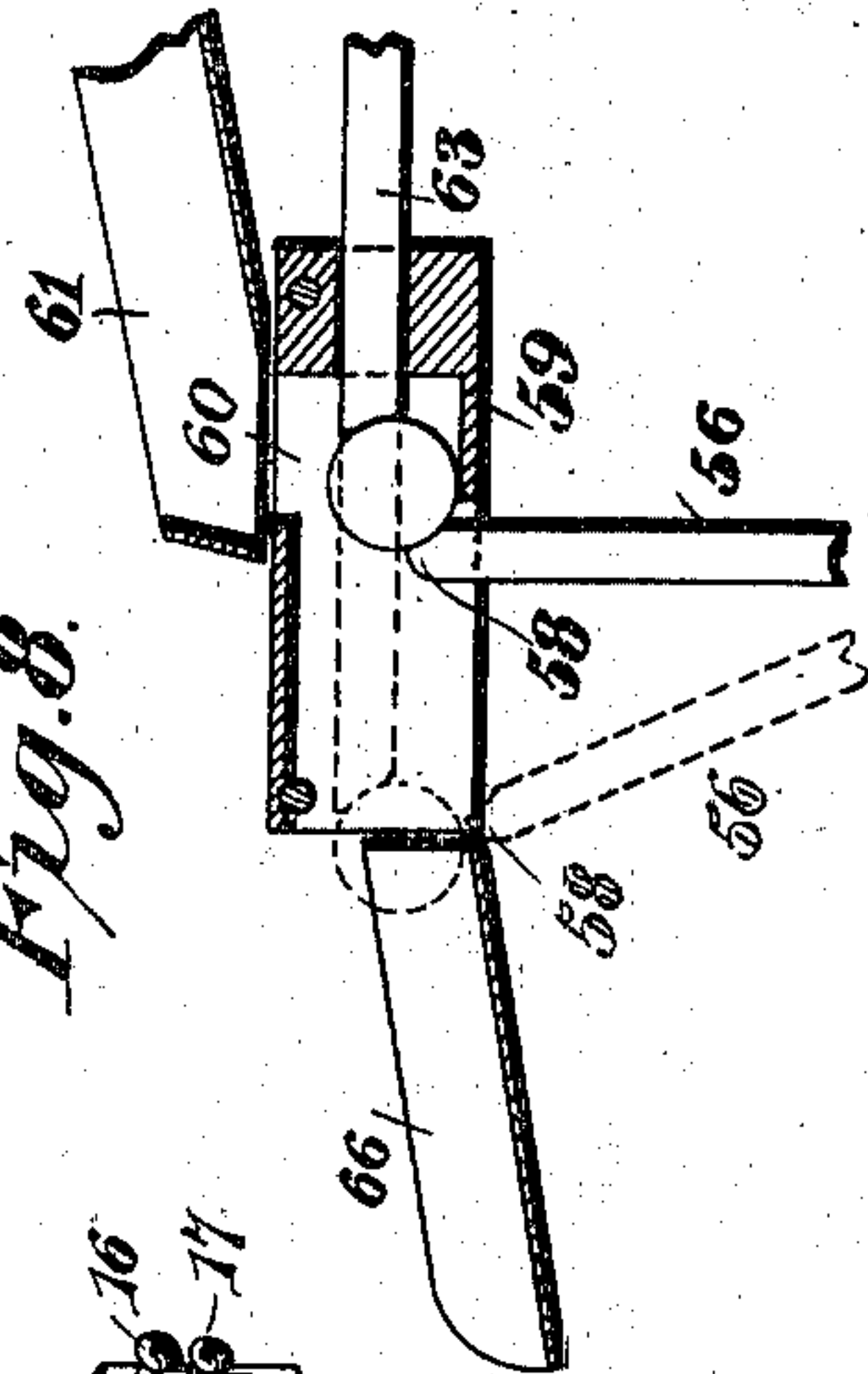
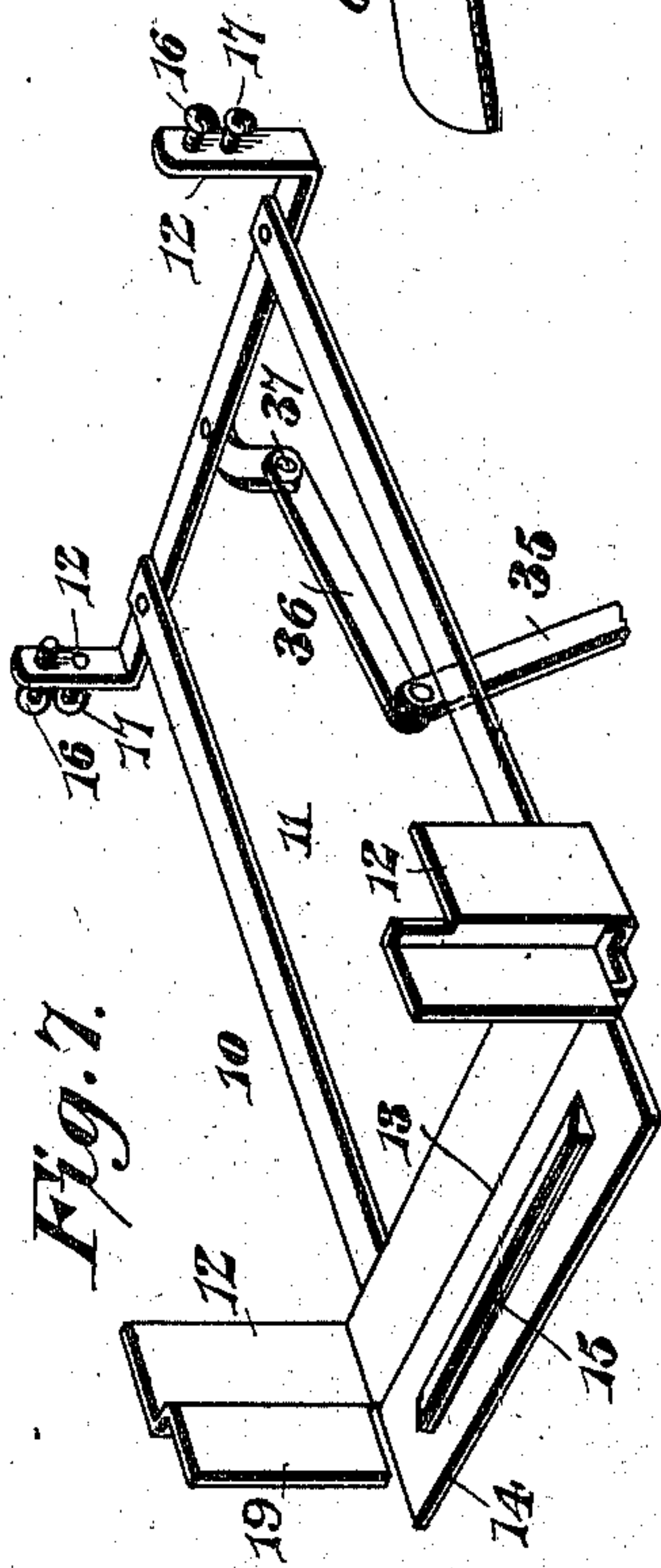


Fig. 7.



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UNITED STATES PATENT OFFICE.

WILLIAM TRIBBLE, OF ALTON, ILLINOIS, ASSIGNOR OF ONE-FOURTH TO
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COIN-CONTROLLED VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 681,084, dated August 20, 1901.

Application filed March 3, 1900. Serial No. 7,243. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TRIBBLE, a citizen of the United States, residing at Alton, in the county of Madison and State of Illinois, have invented a new and useful Coin-Controlled Vending-Machine, of which the following is a specification.

This invention relates to coin-controlled vending-machines, and more particularly to that class of machines in which a cigar is delivered to a purchaser upon the insertion of a proper coin and the actuating of the mechanism which is set for operation by the coin.

To this end the invention has in view the provision of a simple and positively-operating cigar-vending machine having means for handling cigars in the original package or box, as is required by the internal-revenue laws of this country.

In carrying out this object the invention provides for the novel support of the original package or box in such a way that the entire package is freely exposed to view from the exterior of the casing, whereby the labels indicating the brand of the cigars, as well as the revenue stamps or marks, may be readily observed without disturbing the package.

A further object of the invention is to provide a construction which will not necessitate disturbing the cigars in the original package or box in any respect, whereby the same may be placed within the machine and utilized as a hopper or magazine from which the cigars are fed to the delivery mechanism.

A further object of the invention is to associate with the original package or box of cigars simple and efficient means for positively feeding the cigars to their individual positions upon the delivery drum or wheel of the machine and at the same time obviating any possibility of wedging or jamming of the articles during this feeding operation.

The invention also contemplates simple and improved agitating mechanism for feeding the cigars out of the original package or box and also positive and reliable delivery mechanism which is normally inactive and is operatively connected with the agitating mechanism by the coin which is introduced into the machine.

Another object of the invention is to pro-

vide a simple form of coin-detector actuated in connection with the delivery mechanism and providing means for exposing to the view of the tradesman such slugs or false coins as may have been placed in the machine.

With these and other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

While the fundamental features of the invention are necessarily susceptible to various modifications when combined with specifically different forms of operating mechanism, still the preferred embodiment of the improvements is shown for illustrative purposes in the accompanying drawings, in which drawings—

Figure 1 is a perspective view of a cigar-vending machine constructed in accordance with the present invention. Fig. 2 is a horizontal sectional view through the top portion of the machine, the line of section intersecting the vibratory package or box holder. Fig. 3 is a vertical sectional view of the machine on the line 3 3 of Fig. 2. Fig. 4 is a similar view on the line 4 4 of Fig. 2. Fig. 5 is a vertical transverse sectional view on the line 5 5 of Fig. 2. Fig. 6 is a similar view on the line 6 6 of Fig. 2. Fig. 7 is a detail in perspective of the vibratory package or box holder. Fig. 8 is a detail sectional view showing more clearly the operative relation of the coin-engaging and coin-engaged elements.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

In carrying out the invention it is the purpose to provide means for supporting the original package or box of cigars in such relation to the operative parts of the machine as to permit of the ready feeding out of the cigars in bulk from the package or box and the subsequent separation of the cigars whereby the same will be placed in their individual positions for delivery to the purchaser, and besides carrying out this important object the invention also contemplates the support

of the package or box in such position that the same is freely exposed to view. So long as these objects are attained it is unimportant what shape of frame or casing is employed as a part of the machine; but the preferred form of casing is shown in the drawings and is indicated by the numeral 1. This casing is of a general rectangular configuration, being a box-like structure, and is preferably closed at the top by a hinged cover 2, provided with a suitable lock 3 and capable of being readily thrown open to permit of access to the interior of the casing or box to provide for removing and replacing the package or box of cigars, as well as giving access to the entire mechanism contained within the casing for purposes of repair and adjustment. The hinged cover or top 2 of the casing is provided with a glass panel 4, which exposes the interior of the casing to view, and in addition to what may be properly termed the "glass" cover 2 the said casing is further provided in one side at or contiguous to the top thereof with an inspection-window 5, through which the side of the package or box 6 of cigars may be readily viewed for the purpose of examining such labels or stamps as may be thereon. It will thus be seen that the casing is constructed so as to give a view of the entire package or box 6, and when this package or box is placed within the machine-casing the cover 7 thereof is thrown open, so that the cigars may be readily viewed, and in this connection it will be also observed that with the package or box 6 in position and the lid 7 thereof thrown open the latter lies over the compartment containing the principal operating parts of the machine, and thereby serves to cover up such parts. The lid 7 of the cigar package or box 6 may be conveniently supported in a horizontal position at one side of the box-body by means of a stationary supporting-plate 8, secured within the front portion of the machine-casing 1 and receiving thereon the front edge portion of the said lid 7, said supporting-plate combining with the lid 7 to completely cover up the compartment within the machine-casing at one side of the package or box of cigars.

To secure a compact arrangement of parts, besides facilitating the operation thereof, the machine-casing 1 is preferably provided with a central upright partition 9, dividing the interior thereof into separate compartments, one of which receives the principal elements of both the agitating and delivery mechanisms, and this is the compartment which is covered at the top by the lid 7 of the cigar-package and the supporting-plate 8 for said lid. At the opposite side of the said partition 9 and within the top portion of the casing immediately beneath the glass cover 2 thereof is arranged a vibratory package or box holder 10. The vibratory package or box holder 10 is of a size commensurate with the size of the ordinary cigar box or package and is supported so as to be capable of a lon-

gitudinally reciprocatory or vibrating motion, whereby the cigars may be loosened up and vibrated out of the package or box to permit of their feed to the delivery-drum hereinafter referred to. The said longitudinally reciprocatory or vibratory package or box holder is of an open formation to admit of the cigar package or box being readily fitted therein and also readily removed when empty; but the preferable construction of the said holder is shown in the drawings, the same being illustrated as consisting of a skeleton platform 11, which receives thereon the bottom of the cigar package or box 6, and which skeleton platform 11 is provided with a plurality of upstanding retaining-arms 12, preferably located at the corners of the holder and lying at the opposite sides of the cigar package or box to prevent lateral displacement thereof.

In addition to the upstanding retaining-arms at the corners thereof the flat skeleton frame 11 of the package or box holder is provided at the front end thereof with a transverse rest-shoulder 13, against which rests the lower forward end of the cigar package or box to prevent longitudinal movement thereof independent of the holder, and the said platform 11 has extended forwardly beyond the front rest-shoulder 13 thereof an inclined feed-lip provided upon its upper side intermediate the front and rear edges thereof with a longitudinally-disposed upstanding feeding-rib 15, the function of which will be hereinafter presently referred to. To provide for rigidly securing the cigar package or box 6 within the vibratory holder 10, certain of the upstanding retaining-arms 12 thereof, preferably those at the rear end, have mounted therein the fastening-screws 16, adapted to impinge against the sides of the package or box, whereby the same may be securely held in the holder, so as to vibrate or reciprocate therewith, and by loosening the screws 16 an empty package or holder 6 may be readily removed and replaced by a filled package or holder.

The proper feeding out and loosening up of the cigars from the package or box 6 are assisted by supporting the holder 10 at an inclination within the casing, while at the same time permitting of the longitudinally-sliding movement thereof. Any suitable mechanical expedient may be resorted to for slidably supporting the package or box holder; but one way of accomplishing this is shown in the drawings, and consists in providing the upstanding retaining-arms 12 at the upper rear end of the holder with oppositely-projecting lugs 17, loosely and slidably resting upon the stationary supporting-arms 18, fitted to adjacent portions of the machine-casing, and in providing the upstanding retaining-arms 12 at the lower forward end of the holder with forwardly-extending guiding-ears 19, slidably fitting in the guide-slots 20, formed in the rear edge portions of the upstanding sup-

5 supporting-cleats 21, mounted in an upright position within the front portion of the casing and at one side of the partition 9 thereof. The said upright supporting-cleats 21 are preferably utilized to hold in a stationary position at the lower end of the package or box holder 10 the upright cigar-chute 22, essentially comprising the outer and inner walls 23 and 24, spaced apart a distance slightly exceeding the width of an ordinary cigar, so as to only accommodate the cigars singly as they fall through the chute. Both walls 23 and 24 of the chute are preferably curved inwardly to provide for properly conveying the individual cigars to the delivery drum or wheel 25, and the upper end of the inner wall 24 has extended inwardly therefrom an inclined receiving-shelf 26, which extends in rear of the mouth 27 of the chute and slidably receives thereon the feed-lip 14 at the lower front end of the package or box holder 10. The outer wall 23 of the cigar-conveying chute is extended above the receiving-mouth 27 to form an upright abutment-head 28, lying opposite the lower end of the cigar package or box 6 and also disposed above the receiving-shelf 26 of the chute. At this point it may be explained that when the original package or box of cigars 6 is placed within the holder 10 the lower end of the package or box is knocked out, so that the cigars will feed out of such end and will bunch into the space between the said end of the package or box and the upright abutment-head 28, extending above the mouth of the conveying-chute. The said upstanding abutment-head 28, against which the cigars bunch, is provided at or contiguous to its lower edge with a horizontal inwardly-projecting arresting-ledge 29, which is disposed slightly forward of the vertical plane of the feeding-rib 15 of the holder 10, but is spaced from such rib a distance approximating the width of the ordinary sizes of cigars, whereby only one cigar at a time is permitted to pass the throat between the said rib 15 and the ledge 29 in entering the mouth of the feeding-chute 22.

50 In the operation of the machine the arresting-ledge 29 sustains the weight of the cigars thereabove to prevent the same binding or wedging upon the cigar entering the chute, while the feeding-rib 15 upon the backward movement of the package or box holder 10 forces backward the cigar next to the one entering the mouth of the conveying-chute, whereby said entering cigar may freely pass without impediment into the chute and fall by gravity therethrough into one of the individual-cigar pockets 30, formed in the periphery of the rotating delivery drum or wheel 25.

55 The rotating delivery drum or wheel 25 is mounted on a shaft 31, journaled in suitable bearings in the casing, and extends through the partition 9 thereof for a purpose to be presently explained. The said drum 25 is also mounted within one of the compartments of the casing below the plane of the package

or box holder 10 and is disposed in such relation to the lower discharging end of the conveying-chute 22 that the intermittent rotation of the said drum or wheel 25 will provide for always carrying into position beneath the said lower discharging end of the chute 22 one of the individual-cigar pockets 30, so that a cigar will always be in position upon the drum or wheel for delivery to the purchaser after the deposit of a coin and the actuation of the mechanism in the manner hereinafter more fully explained. The horizontally-arranged delivery drum or wheel 25 rotates in a forward direction, so that when the cigars in the pockets thereof reach a position where the same will fall out of the pockets by gravity they will pass through the discharge-opening 32 in the lower side of the casing and thence into the delivery-tray 33, exposed at the front end of the casing 32 to arrest the cigars as they pass out of the same.

A shaking feed motion is imparted to the vibratory package or box holder through the medium of a suitable agitating mechanism, preferably of the construction shown in the drawings. This construction includes a horizontally-arranged rock-shaft 34, mounted within the bottom portion of the casing and extending through the partition 9 at both sides thereof. At one side of the partition 9, within the casing, the rock-shaft 34 has fitted thereto a swinging rock-arm 35, having a pivotal link connection 36 with the vibratory holder 10, preferably at the upper rear end thereof, as at 37, to provide for reciprocating the holder upon its supports to secure the necessary vibration for loosening up and feeding out the cigars from the package or box. The opposite end portion of the rock-shaft 34 at the opposite side of the partition 9 has mounted thereon a vibrating lever 38, having a shouldered end 39, riding on the periphery of the ratchet tappet-disk 40. The tappet-disk 40 is provided with a series of peripheral ratchet-teeth 41, which act in the capacity of tappets and freely ride under the shouldered end 39 of the vibrating lever 38 when the disk is rotating in one direction; but when the disk is rotating in the opposite direction the said teeth have their shouldered sides engage against the shoulder of the lever 38 to prevent the parts from being operated backward or in the wrong direction. The ratchet tappet-disk 40 is mounted on one end of an operating-shaft 42, journaled in the bearings 43 of a bearing-bracket 44, supported within the casing, preferably in an elevated position above the bottom, so that the ratchet-disk and the parts associated therewith will clear the other parts of the mechanism. The end of the operating-shaft 42 opposite the tappet-disk 40 is adapted to have fitted thereto a handle or operating-crank 45, exposed outside of the machine-casing and capable of being freely moved in one direction at all times to provide for carrying the teeth 41 of the tappet-disk against and beneath the shoul-

dered end 39 of the lever 38, whereby the said lever will be vibrated and will transmit a longitudinally vibratory or reciprocating motion to the package or box holder 10.

5 Though the cigar package or box holder may be freely and idly vibrated through the medium of the agitator mechanism just described, still when no coin is in the machine the delivery mechanism will be inactive, and
10 consequently the delivery drum or wheel 25 will not rotate and no cigars will be discharged into the tray 33. The said delivery mechanism, which includes and is associated with the delivery drum or wheel 25, also includes
15 a ratchet-wheel 46, mounted fast on the drum-shaft 31 at one side of the interior partition 9 and constantly held from rotation in a backward direction by a check-pawl 47, mounted on one end of a spring-arm 48, having a coil
20 49, and secured at its opposite end, as at 50, to a fixed point of attachment within the casing, the tension of said spring-arm 48 normally holding the pawl 47 in engagement with the teeth of the periphery of the wheel 46, so
25 as to freely ride over the teeth of the said wheel when rotating in the proper direction, but which engages with the shoulders of the teeth, and thereby arrests rotation of the wheel in the wrong direction. The said
30 ratchet-wheel 46 on the drum-shaft 31 is rotated intermittently in the proper direction to provide for the delivery of the individual cigars into the tray 33 through the medium of an actuating-dog 51. This actuating-dog
35 is supported by means of suitable guides 52, so as to have a reciprocatory or sliding movement in a fixed plane, and the point 53 of said dog is adapted to slide upon the periphery of the wheel 46 and engage with the shoulders
40 of the teeth thereof, and at this point it will be further observed that the said ratchet-wheel 46 is provided with a number of teeth corresponding to the number of individual-cigar pockets 30 in the periphery of the delivery drum or wheel.

45 The sliding actuating-dog 51, constituting a part of the ratchet-turning device for the delivery drum or wheel, is preferably normally retracted to an inoperative position by
50 means of the retracting-spring 54, secured at one end to a fixed point of attachment and at its other end to the dog or to the link 55, pivotally connected at one end to the dog and at its other end to a swinging coin-engaged actuating-lever 56 for the delivery mechanism.
55 The coin-engaged actuating-lever 56 is pivotally supported at its lower end, as at 57, on a fixed point of support and is provided at its upper end with a bill 58, projecting into a horizontally-arranged slideway 59 at the
60 lower side of the latter. The slideway 59 is preferably in the form of a boxing open throughout its entire length and secured to one side of the partition 9, said slideway being provided at its upper side with a coin-opening 60 in communication with a coin-feed chute 61, mounted within the top por-

tion of the casing and having its receiving end in communication with a coin-slot 62 in the cover of the casing. The said open slide- 70 way 59 receives therein for a fixed sliding movement the coin-engaging plunger 63, which plunger, when a coin is not in place within the machine, clears the bill 58 at the upper end of the lever 56, so that the said 75 plunger is permitted to have a free inoperative sliding movement within the slideway 59, and said plunger is reciprocated through the medium of a pitman 64. This pitman is pivotally connected at one end to the end of the 80 plunger 63 outside of the slideway 59, and the other end of the pitman 64 has a crank-arm connection 65 with the ratchet tappet-disk 40 of the shaft 42, upon which the said disk is mounted, thereby providing means for op- 85 eratively coupling the agitating mechanism with the delivery mechanism when a coin is in the machine.

When a coin is introduced into the slot 62, the same travels through the coin-feed chute 90 61 and enters the slideway 59 through the coin-receiving opening 60. After the plunger 63 is thrust across the upper end or bill 58 of the coin-engaged lever 56 the coin will simply rest on the top edge of the plunger 63 un- 95 til it is retracted, and then the coin will fall between the inner end of the plunger and the upper or bill end of the lever 56, so that when through the medium of the pitman connection 64 the plunger 63 again moves 100 forward in the slideway 59 the coin will be forcibly carried against the upper bill end 58 of the lever 56, thereby rocking this lever on its pivot or fulcrum and transmitting motion to the sliding dog 51, which in turn ac- 105 tuates the ratchet-wheel 46 and causes the delivery drum or wheel 25 to turn a distance equal to the space between the cigar-pockets thereof, thus bringing an empty pocket 30 into position beneath the conveying-chute 22 110 and causing a cigar to fall out of another pocket through the discharge-opening 32 and into the delivery-tray 33. While this action is taking place the plunger 63 carries the coin past the bill end 58 of the lever 56 and forces 115 the same out of the opposite end of the slideway 59 into the coin-discharge chute 66, which chute is fitted in a stationary position, and the delivery end 67 thereof at the front side of the casing opens into the periphery of the 120 detector-casing 68, fitted to the front side of the machine-casing and covered at the open front side thereof by a window 69, so as to expose to view the revoluble coin-detector 70, working within the casing. The said coin- 125 detector 70 consists of a circular spider-wheel having a plurality of radially-disposed arms 71, forming therebetween pockets for the reception of the individual coins, and the said coin-detector wheel 70 is mounted at the front 130 end of an operating-shaft 72, having fitted thereto inside of the casing a star-wheel 73, cooperating with a similar right-angularly disposed star-wheel 74, mounted on the shaft

31 for the delivery drum or wheel 25. At each intermittent operation of the delivery drum or wheel 25 the intermeshing star-wheels 73 74 provide for the corresponding operation of the detector-wheel 70, so as to advance the coins within the detector-casing 68 to enable the tradesman to see through the window 69 such slugs or false coins as may have been placed within the machine.

10 The coins received by the detector-wheel from the delivery end of the coin-discharge chute 66 are rotated within the casing 68 one revolution of the wheel 70, and when a coin is brought back to a position beneath the said delivery end 67 of the chute 66 the same will fall by gravity out through the discharge-opening 75 in the lower side of the detector-casing onto a deflector 76, which directs the coin into the receptacle or drawer 77, mounted within the bottom portion of the casing and accessible to the tradesman.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described vending-machine will be readily apparent to those familiar with the art without further description, and it will be understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a coin-controlled vending-machine, a package or box holder, delivery mechanism including a delivering device for the individual articles, and agitating mechanism for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

2. In a coin-controlled vending-machine, the casing, a package-holder loosely supported within the casing, delivery mechanism including a delivering device for the individual articles, and agitating mechanism for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

3. In a coin-controlled vending-machine, the casing, a vibratory package-holder supported to reciprocate within the casing, delivery mechanism including a delivery device for the individual articles, and agitating mechanism for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

4. In a coin-controlled vending-machine, the casing, the vibratory package-holder adapted to support the original package and work the articles out of one end thereof, delivery mechanism including a delivering device for the individual articles, conveying means for directing the articles singly to said delivering device, and agitating mechanism

for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

5. In a coin-controlled vending-machine, the casing, a vibratory holder slidably mounted within the casing and adapted to support the original package and work the articles out of one end thereof, delivery mechanism including a delivering device for the individual articles, conveying means for directing the articles singly to said delivering device, and agitating mechanism for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

6. In a coin-controlled vending-machine, the casing, the vibratory holder supported to reciprocate at an inclination within the casing and adapted to support the original package and work the articles out of one end thereof, delivery mechanism including a delivery device for the individual articles, conveying means for directing the articles singly to said delivering device, and agitating mechanism for said package-holder, said two mechanisms being operatively connected by the coin, substantially as set forth.

7. In a coin-controlled vending-machine, the casing, a vibratory package-holder mounted within the casing, delivery mechanism including a delivering device for the individual articles, a conveyer or chute leading to said delivering device and having a contracted throat for receiving the individual articles from the package carried by the holder, means for causing the articles to pass singly through said throat and enter the mouth of said conveyer or chute, and a normally idly operative agitating mechanism connected with the holder and adapted to be operatively connected with the delivery mechanism by the coin.

8. In a coin-controlled vending-machine, the casing, a shaking holder for the original package mounted within the casing and provided with a feeding device, a delivery mechanism including a delivering device for the individual articles and having a chute leading to said delivering device and provided with a contracted mouth adjoining the feeding device of the holder, and an agitating mechanism operatively connected with the holder and with the delivery mechanism, substantially as set forth.

9. In a coin-controlled vending-machine, the casing, the shaking holder for the original package mounted within the casing and carrying beyond the seat for the package a feeding-rib, delivery mechanism including a delivering device for the individual articles, a conveying-chute leading to said delivering device and having an arresting-ledge cooperating with the feeding-rib of the holder to provide a contracted throat for the passage of the individual articles into the mouth of the conveying-chute, and agitating mechanism oper-

atively associated with the holder and also operatively connected with the delivery mechanism by the coin, substantially as set forth.

10. In a coin-controlled vending-machine, 5 the shaking holder for the original package provided at one end with a feed-lip having an upstanding feeding-rib, the delivery mechanism including a delivering device for the individual articles, a conveying-chute leading 10 to said delivering device and having a receiving-shelf supporting the feed-lip of the holder, and an arresting-ledge disposed above the plane of said feeding-rib, and in advance thereof, and agitating mechanism operatively 15 associated with said holder and also operatively connected with the delivery mechanism by the coin, substantially as set forth.

11. In a coin-controlled vending-machine, the casing, a vibrating holder for the original 20 package suitably supported at an inclination within the casing and provided at one end thereof with a feed-lip having at its upper side an upstanding feeding-rib, delivery mechanism including a delivering device for the individual articles, a conveying-chute leading 25 to said delivering device, said conveying-chute having at the upper end of one wall a receiving-shelf slidably supporting the feed-lip of the holder, and at the upper end of the 30 other wall an upright abutment-head lying opposite the discharging end of the package and provided at or near its lower edge with an arresting-ledge disposed above and in advance of the said feeding-rib, and agitating 35 mechanism operatively associated with the holder and also operatively connected with the delivery mechanism by the coin, substantially as set forth.

12. In a coin-controlled vending-machine, 40 the casing a shaking holder for the original package supported within the casing and essentially comprising a platform provided with a plurality of upstanding retaining-arms engaging at the sides of the package or box, and 45 at one end with a rest-shoulder for the forward or discharging end of the package, delivery mechanism for the individual articles, and agitating mechanism operatively associated with the holder and also operatively 50 connected with the said delivery mechanism by the coin, substantially as set forth.

13. In a coin-controlled vending-machine, the casing, a shaking vibratory package- 55 holder mounted within the casing and essentially comprising a platform provided with a plurality of upstanding retaining-arms for the package or box, and at one end with a rest-shoulder for the discharging end of the package or box, said holder being further 60 provided with supporting projections slidably sustained within the casing, and with fastening means for the package or box, delivery mechanism including a delivering device for 5 the individual articles, and agitating mechanism operatively associated with the holder and also operatively connected with said de-

livery mechanism by the coin, substantially as set forth.

14. In a coin-controlled vending-machine, the casing, a vibratory holder for the original 70 package mounted within the casing, agitating mechanism including a rock-shaft operatively connected with said holder, and a tappet device associated with said rock-shaft, and delivery mechanism including a delivering de- 75 vice for the individual articles, operatively connected with said tappet device, said agitating and delivery mechanisms being operatively connected by the coin, substantially as set forth.

15. In a coin-controlled vending-machine, the casing, the vibratory holder for the original package mounted within the casing, agitating mechanism including a rock-shaft carrying a swinging arm connected with said 85 holder, a vibrating lever provided with a shouldered free end, and an operating-shaft carrying a ratchet tappet-disk engaging the shouldered end of said vibrating lever, and delivery mechanism including a delivering 90 device for the individual articles and operatively connected with said agitating mechanism by the coin, substantially as set forth.

16. In a coin-controlled vending-machine, the casing, the holder for the package or box, 95 agitating mechanism for the holder or box, a delivering mechanism including a delivery-drum for the individual articles, a ratchet feed device for the delivery-drum, a coin-engaged lever connected with said ratchet feed 100 device, and a coin-engaging member cooperating with said coin-engaged lever and operatively connected with said agitating mechanism, substantially as set forth.

17. In a coin-controlled vending-machine, 105 the casing, a holder for the original package mounted within the casing, agitating mechanism for the holder, a delivery mechanism including an intermittently-rotating delivery drum or wheel for the individual articles, a 110 rotating feeding device for said drum or wheel, a swinging coin-engaged lever having an operative connection with the dog of said ratchet feeding device, and a reciprocatory coin-engaged member operatively connected with the 115 agitating mechanism and adapted to carry a coin against said coin-engaged lever, substantially as set forth.

18. In a coin-controlled vending-machine, the casing, a holder for the original package 120 mounted within the casing, agitating mechanism for said holder, a delivery mechanism including an intermittently-rotating delivery drum or wheel for the individual articles, the shaft of which carries a ratchet-wheel, an ac- 125 tuating-dog cooperating with the teeth of said ratchet-wheel, a swinging coin-engaged lever having a link connection with said dog, a slideway in communication with coin feeding and discharging chutes, and receiving therein 130 one end of said coin-engaged lever, and a plunger slidably working within said slideway and

having an operating connection with said agitating mechanism, substantially as set forth.

19. In a coin-controlled vending-machine, the casing, a holder for the original package
5 mounted within the casing, agitating mechanism for said holder, a delivery mechanism including an intermittently-rotated drum or wheel for the individual articles, a coin-engaged lever for actuating the drum or wheel,
10 an open slideway in communication with coin feeding and discharging chutes and adapted to receive therein one end of said lever, and

a coin-engaging plunger slidably working in the slideway and having an operative connection with the agitating mechanism, substantially as set forth. 15

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

WM. TRIBBLE.

Witnesses:

JOHN H. SIGGERS,

EDWIN E. VROOMAN.