

E. S. SCHEBLE.  
 COIN CONTROLLED MACHINE.  
 APPLICATION FILED FEB. 8, 1909.

969,728.

Patented Sept. 6, 1910.

2 SHEETS—SHEET 1.

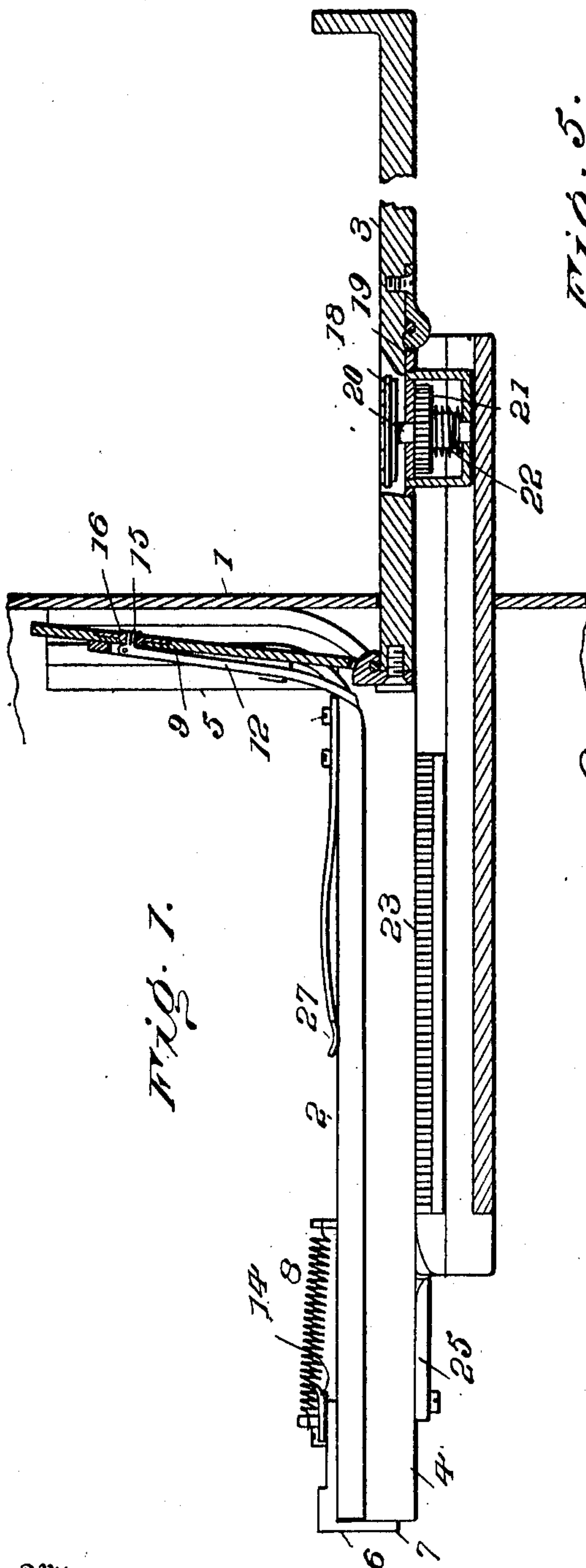


Fig. 1.

Fig. 5.

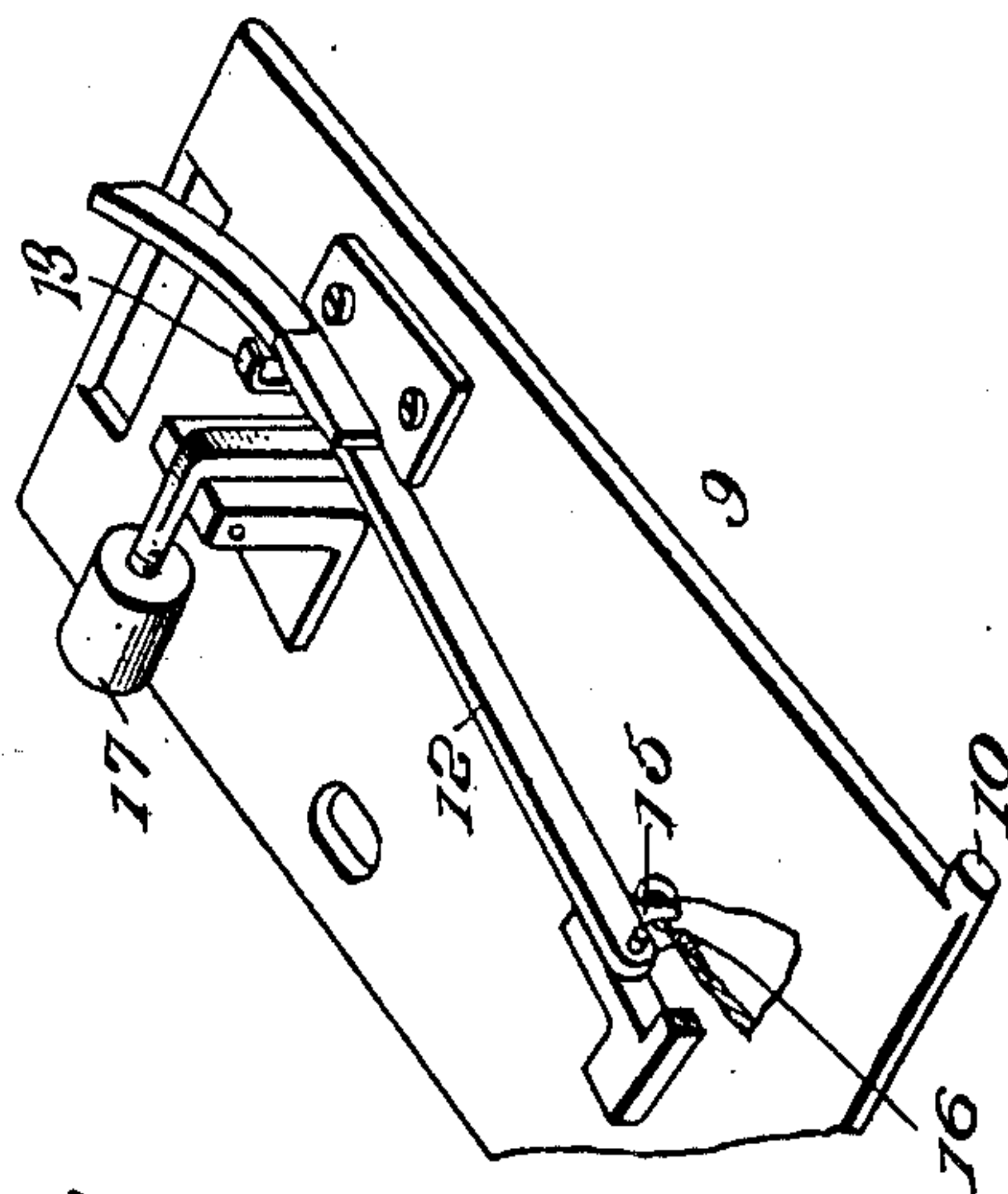


Fig. 6.

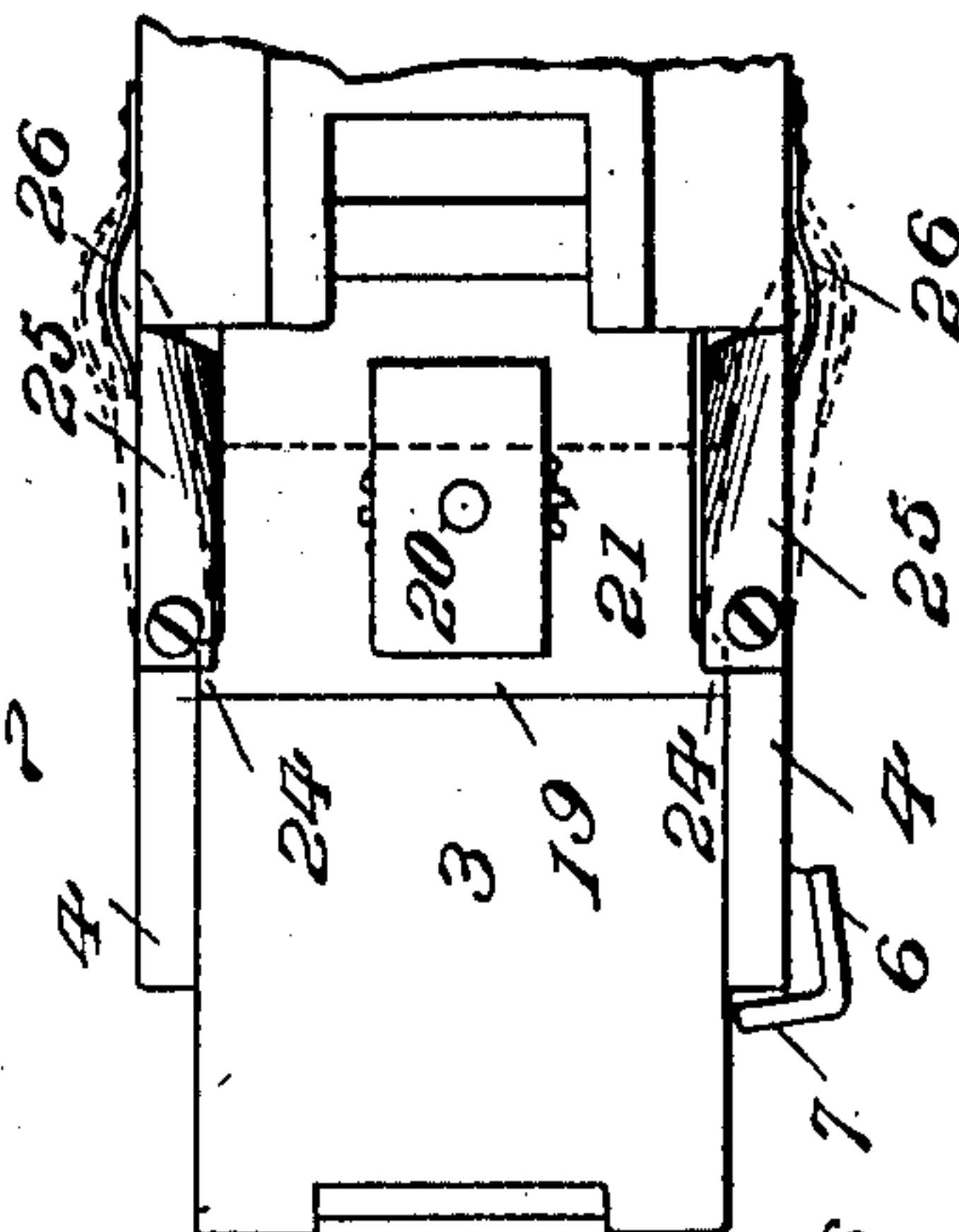
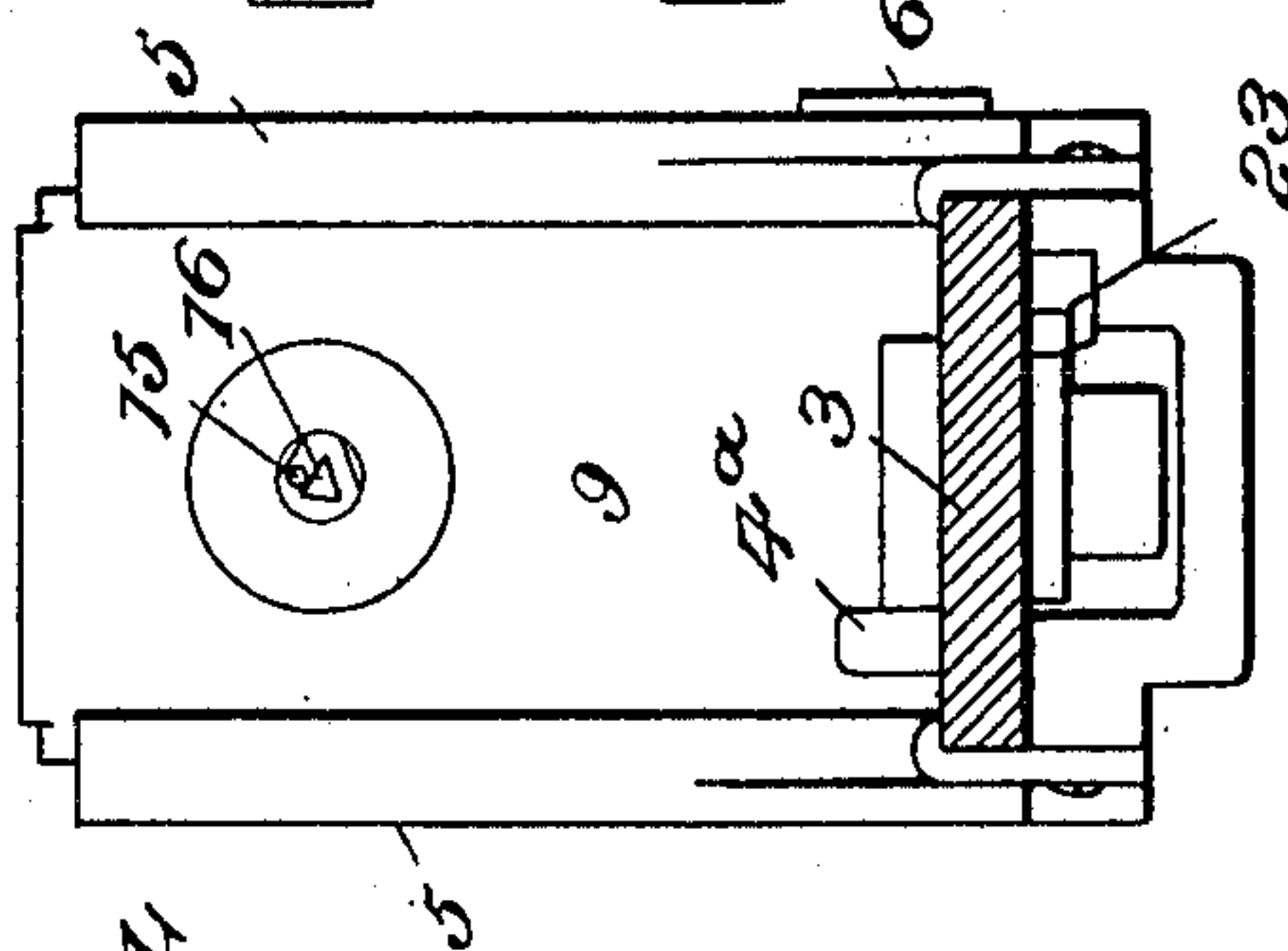


Fig. 4.



Witnesses

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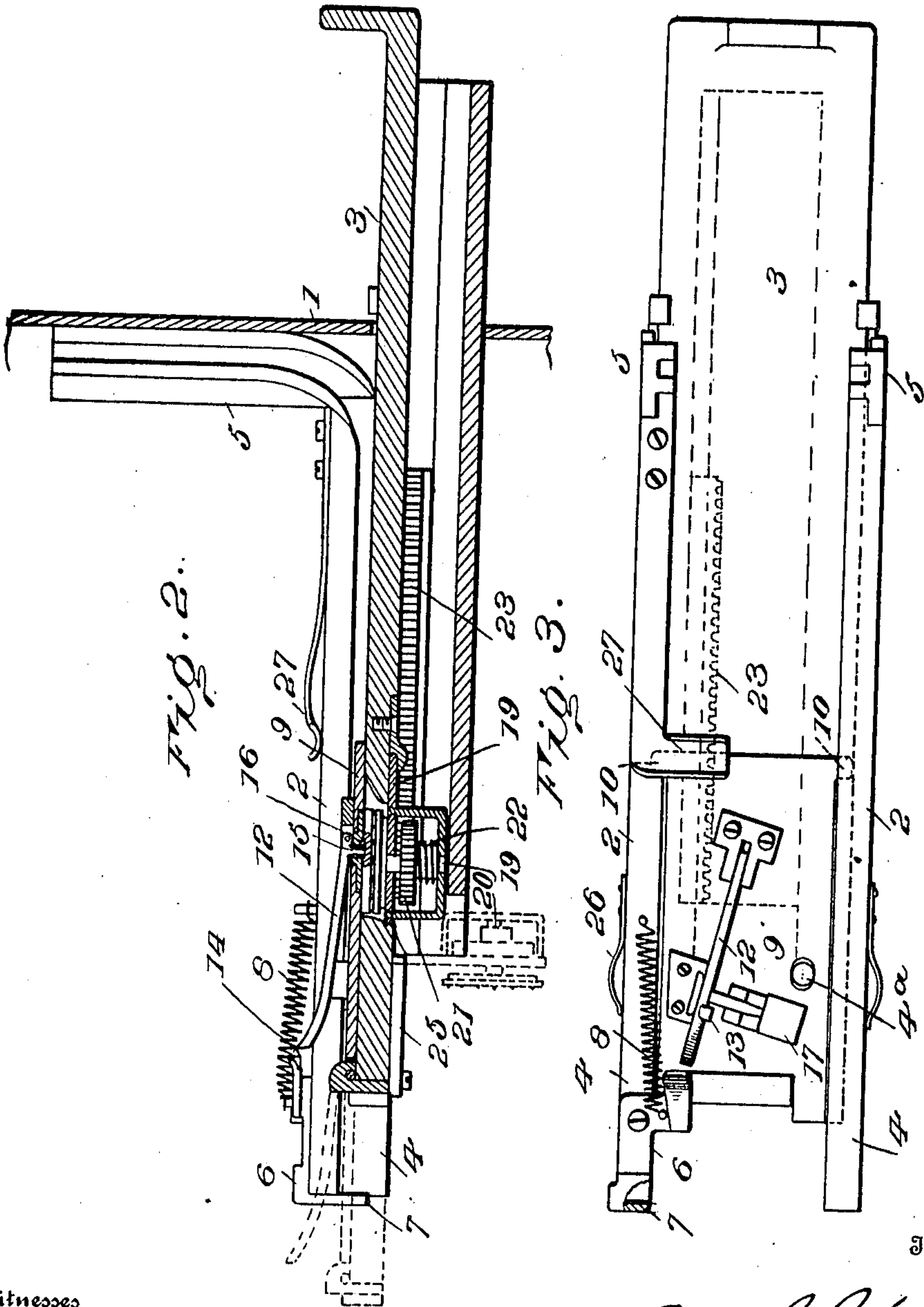
Attorney

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2 SHEETS—SHEET 2.



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# UNITED STATES PATENT OFFICE.

EUGENE S. SCHEBLE, OF CLEBURNE, TEXAS, ASSIGNOR OF ONE-HALF TO FELIX Q. RAST, OF BOSTON, MASSACHUSETTS.

## COIN-CONTROLLED MACHINE.

969,728.

Specification of Letters Patent.

Patented Sept. 6, 1910.

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*To all whom it may concern:*

Be it known that I, EUGENE S. SCHEBLE, of Cleburne, in the county of Johnson and State of Texas, have invented certain new and useful Improvements in Coin-Controlled 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.

The object of this invention is to provide improved means for preventing the operation of a coin controlled device other than by a coin of proper value. The operation of the device is dependent upon a predetermined portion or portions of the impressed surface of a coin coming into proper relation with and allowing the operation of means which controls the unlocking of the device.

My invention embodies a device located in the path of travel of a coin, such device traveling bodily with the coin after the latter has entered the machine, and either the device or the coin is rotated on its own axis to bring a predetermined portion or portions of the marks, figures, or other characters of the coin into engagement with a projecting contact of the device, or the coincidence of a word or a portion of a word, or the like, on the coin with a corresponding formation carried by the device, before the machine may be actuated.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal section, the coin carrier being in its forward position. Fig. 2 is a similar view, with the carrier moved rearward, the full extent of its movement being indicated in dotted lines. Fig. 3 is a top plan view of Fig. 2. Fig. 4 is a face view of the coin engaging plate in its lifted position, parts being in section. Fig. 5 is a view in perspective of that plate, with the parts mounted thereon. Fig. 6 is a bottom plan view, with parts broken away, of the carrier in its rearmost position.

Referring to the drawings, 1 designates the inclosing casing, a portion only of which is shown; 2 horizontally disposed guideways; and 3 the coin carrier movable on such guideways. The side walls 4 of the latter are prolonged rearwardly a short dis-

tance, and at their forward ends said guideways have vertical branches 5 which are adjacent to the front wall of the casing. A stop 4<sup>a</sup> limits the forward movements of the carrier. The full rearward movement of the latter is normally prevented by a lock 6, in the form of a bell crank lever, having a flange 7 which projects across the rear end of one of the guideways 2, in which position it is held by a coil spring 8.

To the inner end of the carrier is pivotally secured a plate 9 having at its free end opposite lugs 10, which extend into guideways 2, and when the carrier is drawn forward said lugs enter the vertical branches 5 so that plate 9 will be raised from the carrier. This plate 9 carries a device having a projection which will be actuated by a coin when a predetermined portion or portions of the characters impressed on the face thereof coincide with a corresponding formation on a boss or thickened portion of the plate. In the present instance, this device is shown in the form of a lever 12 of the third order, with its free end bent upwardly and extended through a guide 13. The slightest elevation of the lever will throw its free end into line with a shoulder 14 on the locking lever so that the latter may be turned aside. From the underside of lever 12 depends a contact pin 15 which extends through plate 9, which at that point has a short boss or thickened portion 16, the face of which is formed to correspond to a predetermined portion of the configuration or ornamentation of the face of a coin of proper value, so that when the coin is properly positioned relative to such boss or thickened portion, the contact pin will be raised a slight distance, the movement of which is multiplied at the outer end of lever 12 sufficiently to elevate the latter into the path of the lock. A weighted lever 17 mounted on plate 9 engages the lever 12 to retain it in either of its two positions.

18 designates the coin rest located in an opening in the coin carrier, and mounted in a plate 19 hinged to the underside thereof. This coin rest is on a central stud 20 mounted on the underside of plate 19 and whereon is a gear pinion 21 and a spring 22, which insures proper tension between a coin and plate 9. The pinion 21 meshes with a rack bar 23 so that the coin rest, together with the coin, will be rotated as the carrier is



moved forward. In this way, the coin is brought into proper relation to the contact pin 15 and boss 16. Preferably the face of the coin rest is formed with serrations to secure the necessary frictional engagement with the coin. The raising of pin 15 throws lever 12 into the path of the locking lever, and effects the turning thereof to permit the carrier to travel the full distance. As this occurs lugs 24 on the free end of coin-rest plate 19 clear the rear ends of arms 25 permitting such plate to drop and discharge the coin. The arms 25 form continuations of guideways 2, and are held by springs 26 which allow the arms to swing laterally sufficiently to permit the lugs to reënter the guideways as the carrier is drawn forward. In the return forward movement of the coin-carrier, the lever 12 is forced down by an overhanging spring-arm 27, and the plate 6 is raised to expose the coin-rest.

In practice, it is only necessary for the operator to place on the rest a coin of the proper denomination, and then to push the carrier rearward. As the plate 9 closes down on the coin, the latter and the rest are rotated until the predetermined portion of the face of the coin is brought into proper coincidence with the face of the boss or thickened portion, whereupon the pin 15 will be slightly elevated and cause the outer end of lever 12 to rise into line with the shoulder of the locking lever. The latter will thereby be turned out of the way, permitting the rear end of the carrier to move beyond the ends of the extensions of sides 4, and at the same time the coin is discharged by the dropping of its rest. As the carrier is drawn forward the coin-rest assumes its normal position and the lock engaging lever is likewise returned to its normal position.

It is manifest that changes may be made without departing from the spirit of my invention.

I have described a single lock releasing lever actuated by a single contact pin when a proper relation is established with the face of a coin. As before noted, the actuation of such releasing medium may be dependent upon the coincidence of a word or a portion of a word, or the like, on the coin with a corresponding formation carried by the lock releasing device.

I claim as my invention:—

1. In a coin controlled machine, means controlling the operation thereof comprising a device formed to co-act with a predetermined part or parts of the figures or characters in the face of a coin and with which such predetermined part or parts of the face of a coin must coincide before the machine may be operated.

2. In a coin controlled machine, operating means comprising a device having a contact surface formed to correspond and co-act

with a predetermined part or parts of the configuration on the face of a coin, means for moving the coin and said device synchronously, and means for moving one relative to the other to bring their corresponding parts into coincidence.

3. In a coin controlled machine, a lock, means for engaging and releasing such lock, and means for controlling such latter means comprising a device formed to correspond and co-act with a predetermined part or parts of the figures or characters in the face of a coin and with which such predetermined part or parts of the face of a coin must coincide before such lock can be actuated.

4. In a coin controlled machine, a lock, means for engaging and releasing such lock, and means for controlling the operation of such latter means comprising a lever, a plate having a contact surface formed to correspond and co-act with a predetermined part or parts of the design upon a coin and with which the similar part or parts of the face of a coin must coincide before such lever can be moved and the lock actuated.

5. In a coin controlled machine, a coin carrier, a lock for normally limiting the movement of the latter, a coin rest, means for engaging and releasing such lock comprising a lever, a plate having a surface formed to correspond with part or parts of the design upon a coin and with which the similar portion or portions of the face of a coin must coincide before such lever can be actuated to release said lock, and means for effecting the proper relation between the coin and such surface.

6. In a coin controlled machine, a coin carrier, a lock for normally limiting the movement of the latter, a coin-rest secured to said carrier, means for engaging and releasing such lock comprising a lever, a plate having a surface formed to correspond with part or parts of the design upon a coin and with which the similar portion or portions of the face of a coin must coincide before such lever may be actuated to release said lock, means for effecting the proper relation between the coin and said surface, and means for discharging the coin from said rest after said lever has actuated said lock.

7. The combination with a carrier, and a lock, of a coin-rest mounted on the carrier, a plate mounted on said carrier above said rest and having a surface with which a predetermined portion of the face of a coin is designed to coincide, a lever having a contact pin projecting through the plate at said surface, said pin being designed to actuate said lever when engaged by a predetermined portion of a coin on said rest, and means for effecting a relative movement between the coin and said plate.

8. The combination with a carrier, and a lock, of a coin-rest mounted on the carrier, a



plate mounted on said carrier above said rest and having a surface with which a predetermined portion of the face of a coin is designed to coincide, a lever having a contact pin projecting through the plate at said surface, said pin being designed to actuate said lever when engaged by a predetermined portion of a coin on said rest, and means for rotating said rest and a coin thereon as the carrier is moved rearward.

9. The combination with a carrier, and a lock, of a plate hinged to said carrier, a coin rest on said plate, a second plate hinged on said carrier, means for raising said second plate from the carrier, a lever mounted on said second plate having a pin projecting through such plate and designed to effect the raising of said lever to engage said lock when said carrier is moved rearward and said pin is engaged by a predetermined portion of the face of a coin, said coin-rest plate being moved out of its normal position after said lock is actuated.

10. The combination with a carrier, and a lock, of a plate hinged to said carrier, a coin-rest on said plate, a second plate hinged on said carrier, and having a surface with which a predetermined portion of the face of a coin is designed to coincide, and a lever on said plate having a pin projecting through such surface and designed to effect the actuation of said lever when such predetermined portion of the face of a coin is in coincidence

with said surface, said first mentioned hinged plate dropping out of its normal position relative to said carrier when the latter is released by said lock.

11. The combination with guideways having spring-held arms at their ends, of a carrier fitted in said guide-ways, a lock, a coin-rest, a plate whereon said rest is mounted, said plate being hinged to said carrier and projecting into said guideways, and means mounted on said carrier designed to be actuated by a coin on said rest for operating said lock, said rest plate dropping from its normal position when free of said arms.

12. The combination with a coin carrier, of a coin-rest, means for rotating the latter, a plate mounted on said carrier, a lever of the third order mounted on said plate and having a pin projecting through said plate and designed to be actuated by a predetermined portion of the face of a coin, a spring-held locking lever normally limiting the movement of said carrier and designed to be engaged and actuated by said lever, and means for guiding and holding the latter.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

EUGENE S. SCHEBLE.

Witnesses:

B. F. FRASHER,  
W. E. MENESEE.