

E. F. SCHNEIDER & R. J. A. PASTERNAK.

COIN CONTROLLED VENDING MACHINE.

APPLICATION FILED JAN. 27, 1908.

908,807.

Patented Jan. 5, 1909.

3 SHEETS—SHEET 1.

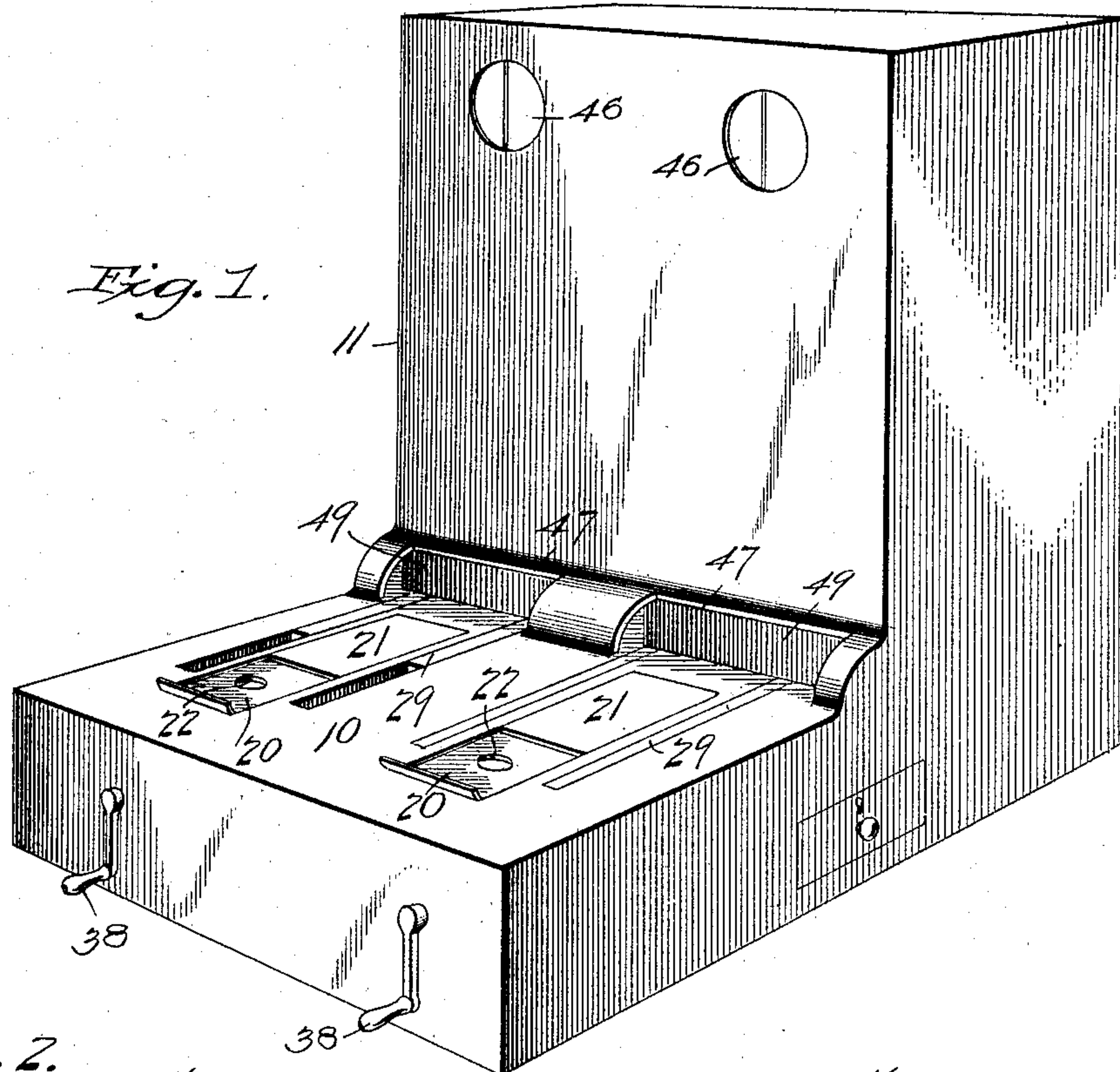
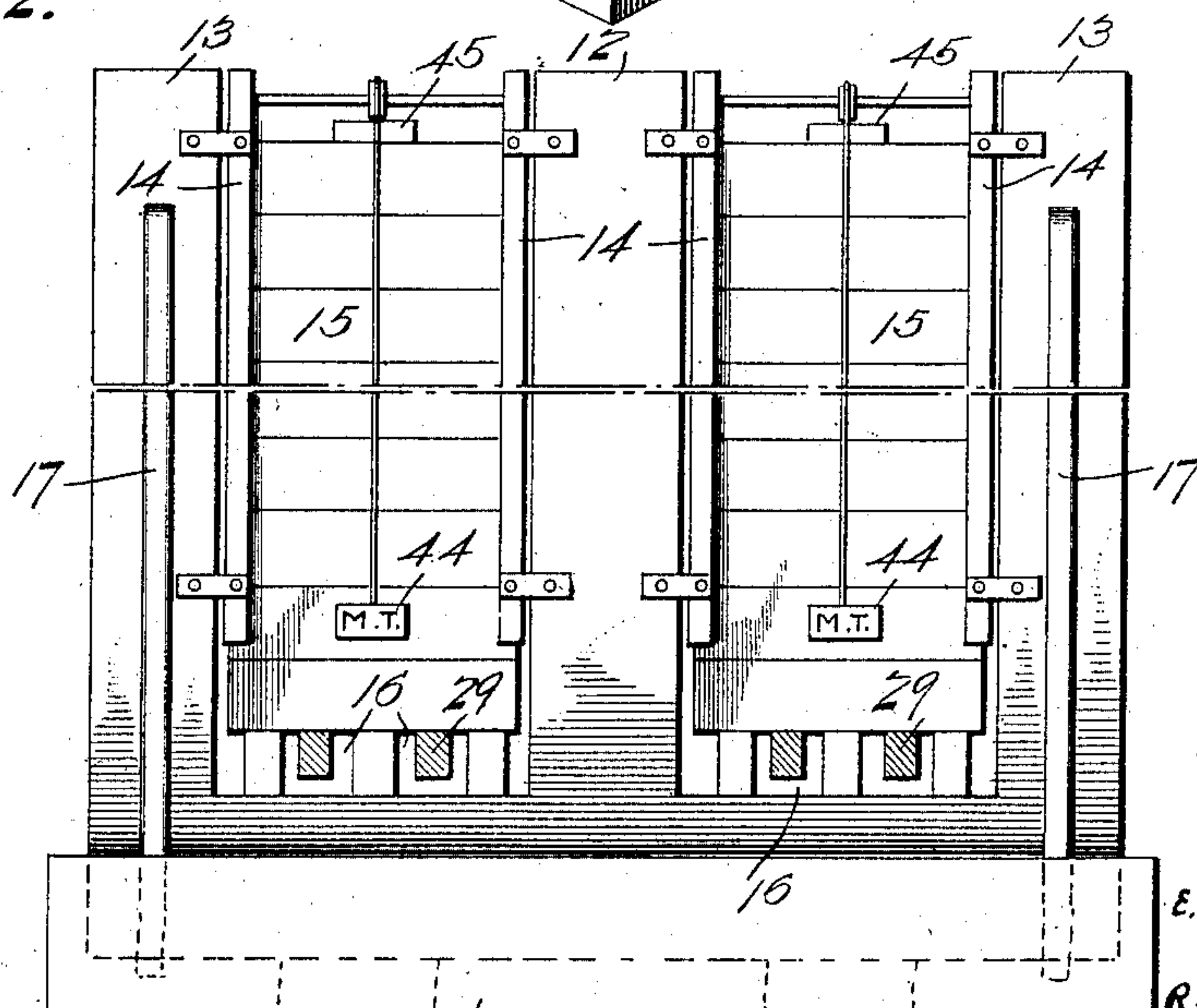


Fig. 2.



Witnesses

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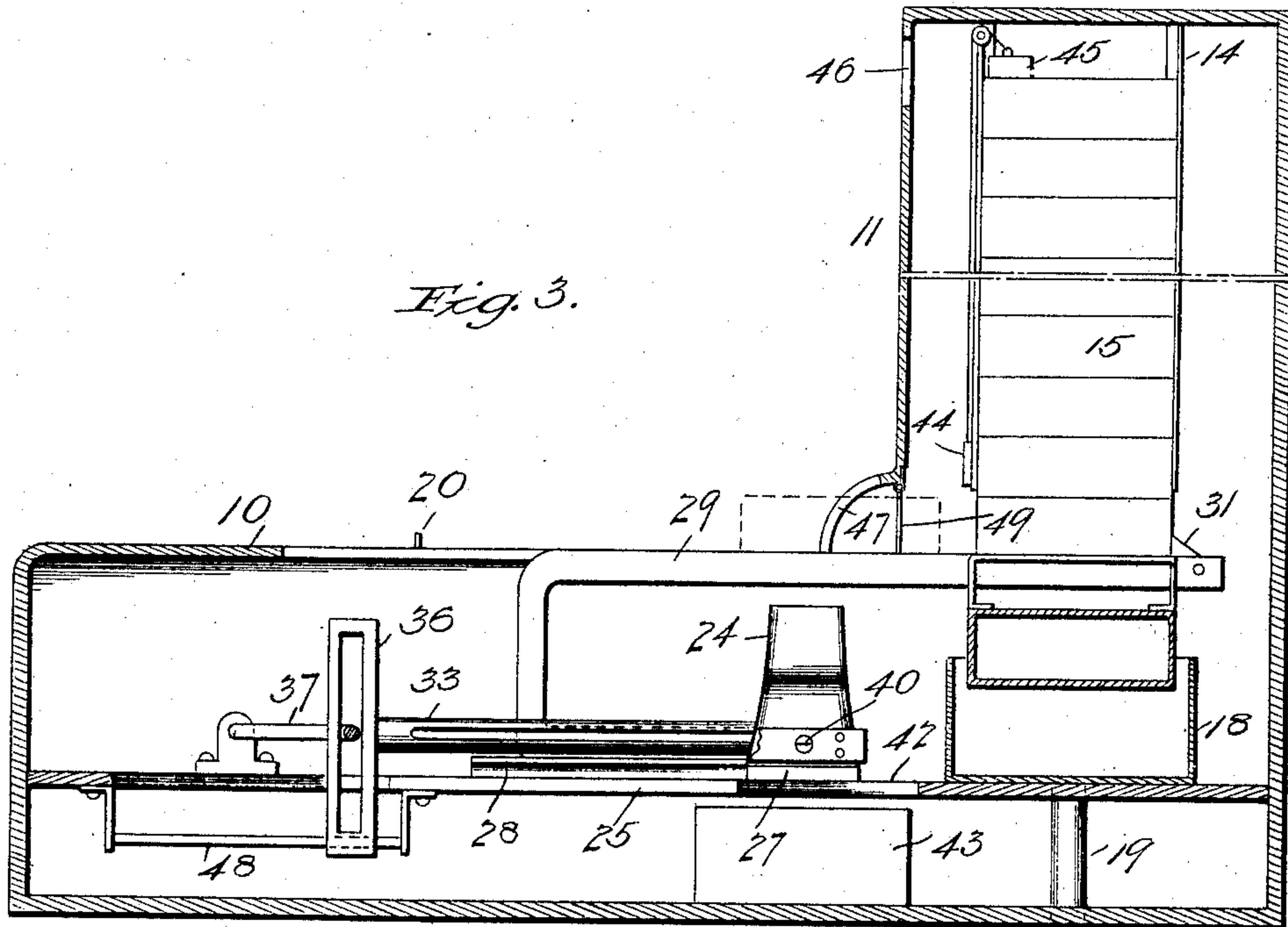


Fig. 3.

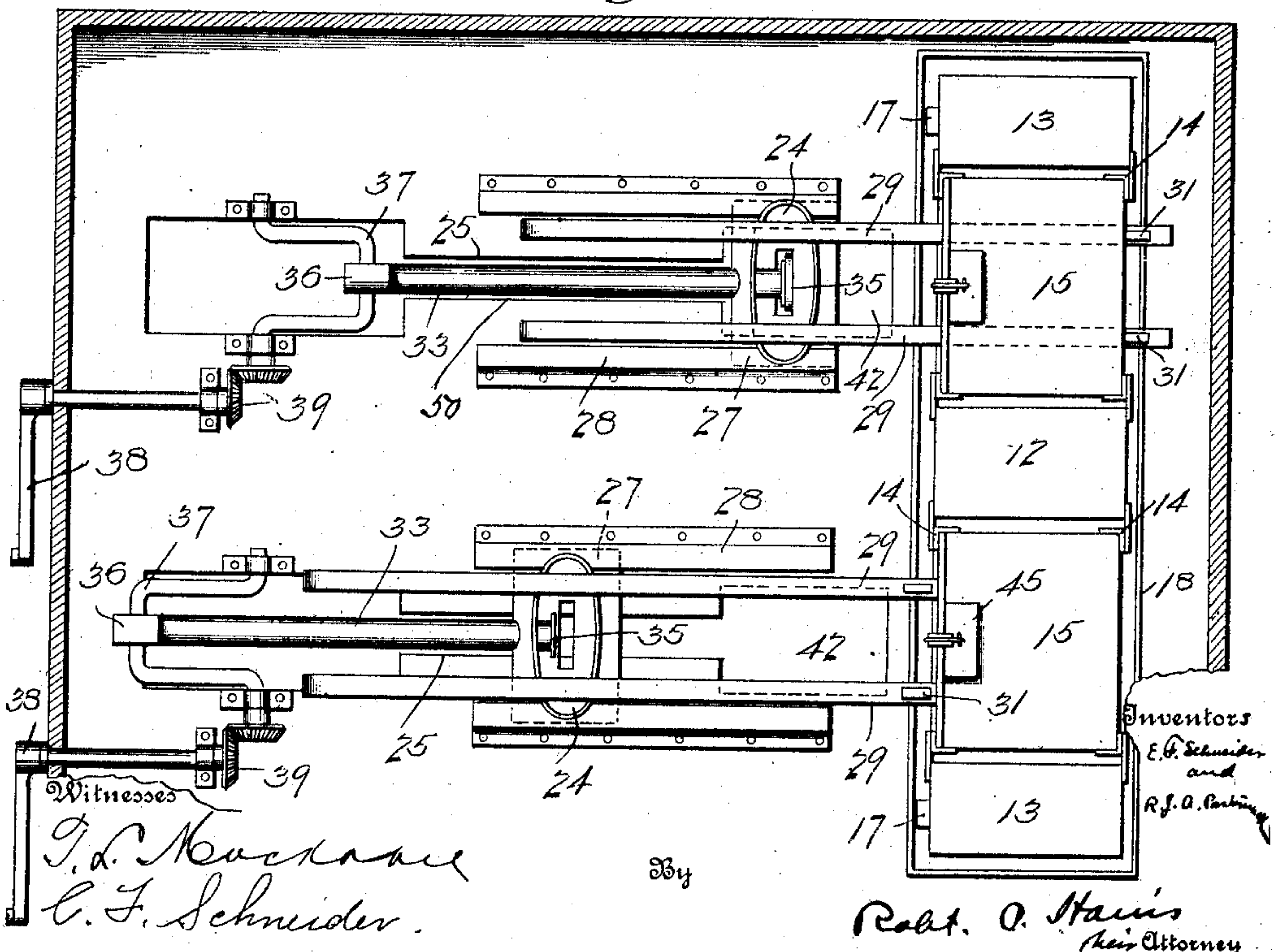


Fig. 4.

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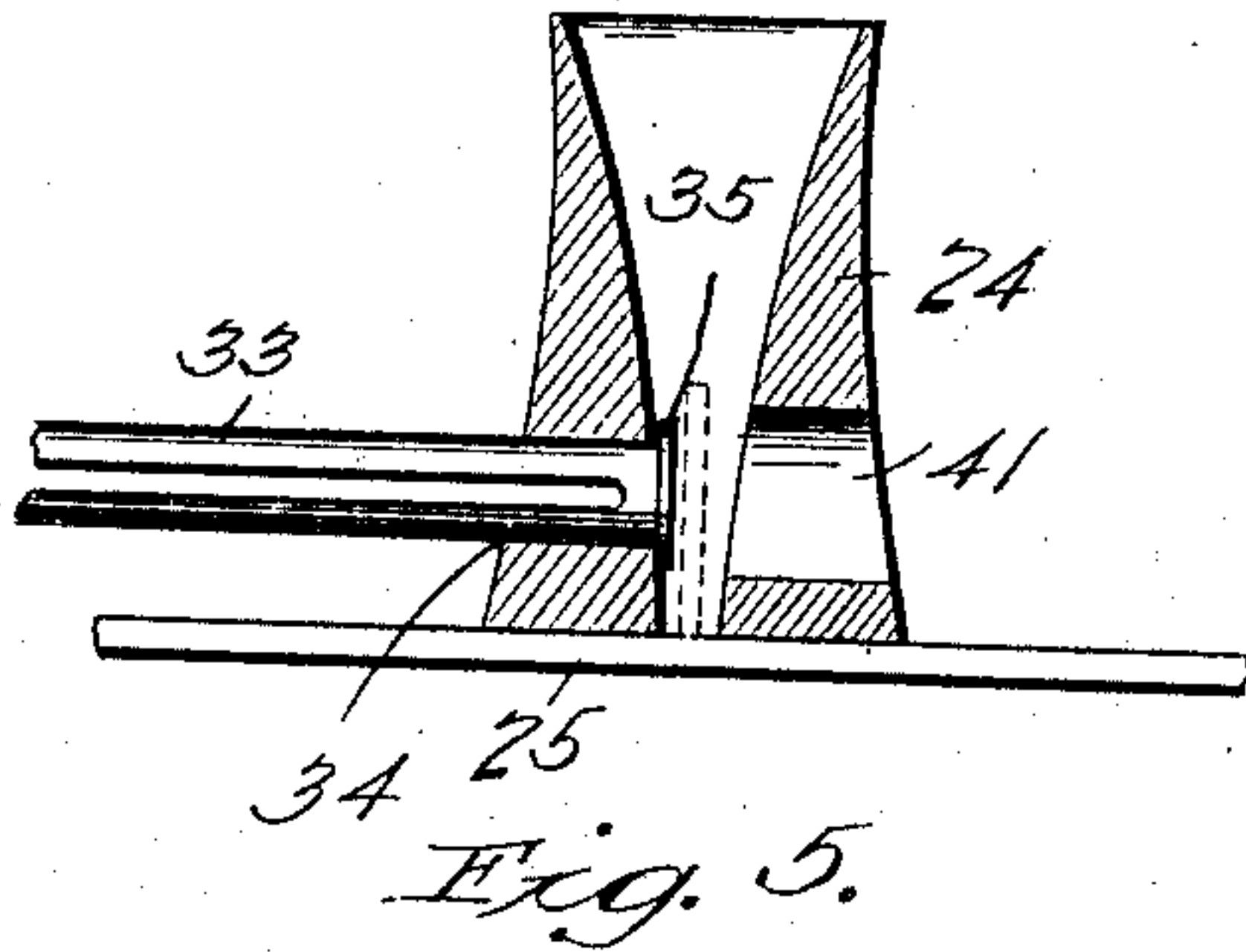


Fig. 5.

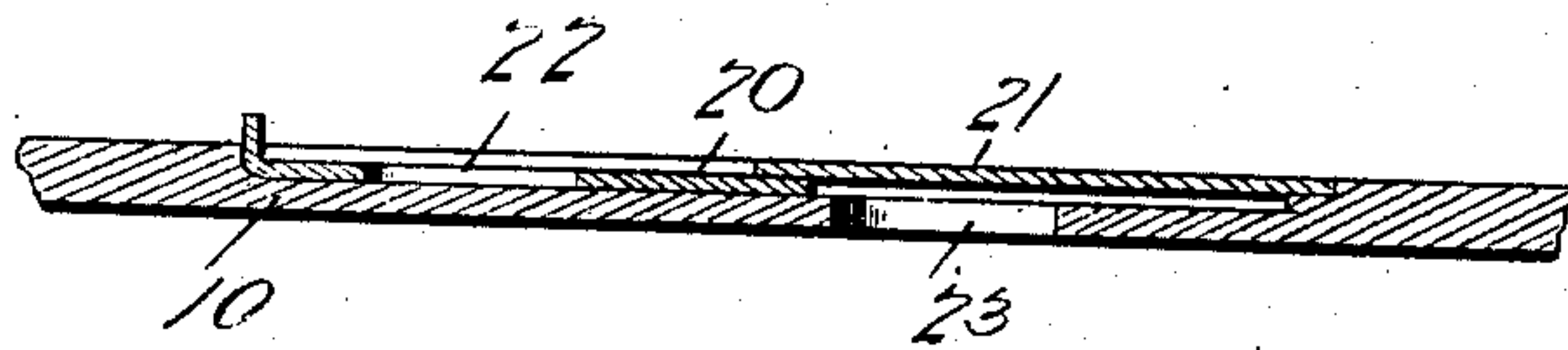


Fig. 6.

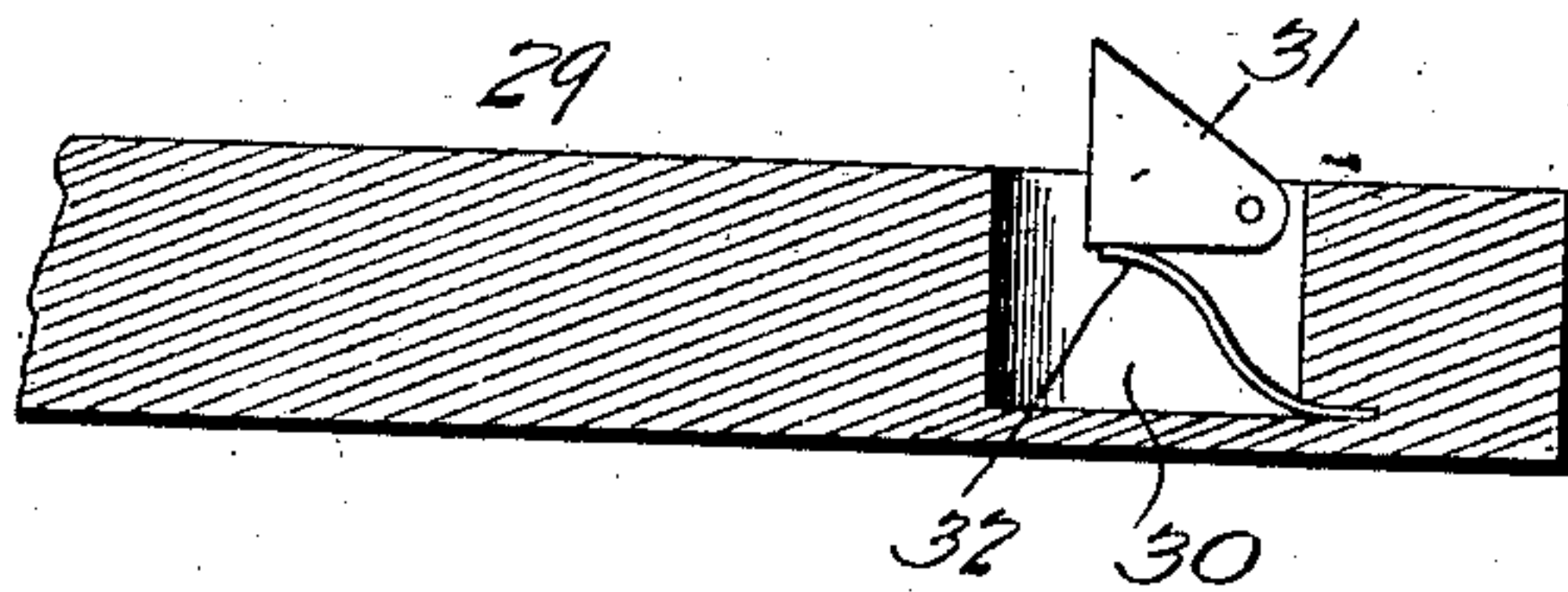


Fig. 7.

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UNITED STATES PATENT OFFICE.

EMANUEL F. SCHNEIDER AND RICHARD J. A. PASTERNAK, OF LITTLE ROCK, ARKANSAS.

COIN-CONTROLLED VENDING-MACHINE.

No. 908,807.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed January 27, 1908. Serial No. 412,806.

To all whom it may concern:

Be it known that we, EMANUEL F. SCHNEIDER and RICHARD J. A. PASTERNAK, citizens of the United States, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines, of which the following is a specification.

This invention relates to certain new and useful improvements in coin-controlled vending machines.

The invention has for its object the production of a simple and inexpensive machine of this character which is particularly adapted for the storage and delivery of edibles, such as sandwiches, meats, eggs, and delicacies of all kinds.

A further object is to provide refrigerating means whereby the foods mentioned will be preserved in a sanitary and pure condition for a maximum period.

Another object is to provide a reliable and positive delivery mechanism and a simple form of coin-operated mechanism.

With these and other objects in view, the invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, wherein similar numerals of reference indicate corresponding parts in each of the several views:—Figure 1 is a perspective view illustrating our invention. Fig. 2 is a front elevation of the delivery chutes, parts being shown in section. Fig. 3 is a longitudinal sectional view, illustrating the operating mechanism. Fig. 4 is a plan view, parts being shown in section. Fig. 5 is a detail of the coin hopper. Fig. 6 is a detail of the coin slide; and Fig. 7 is a detail of the delivery device.

Referring to the drawings, 10 designates a casing provided with an upright extension 11, which is arranged to receive the articles to be delivered. This extension is provided with a plurality of compartments 12, 13, between which are located the chutes or guideways 14 for the goods to be vended. Said goods are packaged in any preferred manner, as indicated at 15, and are supported upon cross bars 16. The compartment or chamber 12 is adapted to receive ice, while chambers 13 are in communication with chamber 12 and receive the water resulting from the melting of the ice in chamber 12. As the water fills chambers 13, overflow

pipes 17 conduct the same to a drip pan 18 and from thence it is carried off by a suitable drain pipe 19.

In the drawing we have illustrated two coin-slides 20 and cooperating mechanism, but it is obvious that any desired number may be used, without departing from the spirit of our invention, by merely duplicating the parts. A description of one, therefore, will suffice for all.

The slide 20 is mounted in suitable guides 21 and provided with a recess 22 of a proper size to receive the desired coin. When the coin is deposited in said recess, it rests upon the top of casing 10 and is carried forward by the slide until it reaches an opening 23 through which it drops, falling into a hopper 24 which normally rests beneath said opening. Said hopper is open at its bottom and is of such shape that the coin is supported upon edge when it comes to rest upon a horizontal partition 25, which also supports the hopper. Said hopper 24 is free to reciprocate upon partition 25, being provided with flanges 27, fitting under guide strips 28. Arms 29 are secured to hopper 24, said arms being extended forwardly, then bent upwardly and backward as indicated in Fig. 2, to pass between supports 16 beneath the packages 15. The rear end of each arm 29 is recessed, as indicated at 30, to receive a pivoted detent 31, which is normally held elevated by a spring 32.

By making the delivery arms of approximately U-shape, the forward extensions thereof serve to balance the rear extensions, and thereby aid in maintaining chute 24 in a vertical position and prevent sticking in the guides 28.

The hopper and its adjuncts are reciprocated by means of a rod 33 passed through an opening 34 in said hopper and provided with an enlarged end 35 adapted to engage the coin while retained in the hopper. The free end of said rod is provided with a loop-like portion 36 through which a crank 37 is passed, said crank being geared in any suitable manner with an operating handle 38, beveled pinions 39 being illustrated for that purpose. A pin or set screw 40 is located in the wall of hopper 24 and projects into a slot in rod 33 to limit movement of said rod. The rear wall of hopper 24 is provided with an opening 41 of a size smaller than the desired coin, and an enlarged opening 42 is formed in partition 25 to permit

the coin to drop into a receptacle 43 at the proper time. If it is desired to indicate when the chutes 14 have become exhausted, the same may be done by means of a tag 5 44 suspended by a cord from a weight 45 resting upon the topmost package 15, whereby said tag will be brought into alinement with a sight opening 46 when the last package has been removed.

10 The operation is as follows:—When a coin has been deposited in recess 22, the slide 20 is moved until recess 22 registers with opening 23, whereupon the coin will fall into hopper 24. The operator then rotates handle 38, thereby causing the rod or plunger 33 to move back. If a smaller coin than that intended has been dropped in the hopper, the same will immediately fall through the hopper and opening 50, and there will 20 be no delivery. If the proper coin has been deposited, however, the movement of the rod 33 forces the coin against the rear wall of chute 24, causing said chute and the arms 29 to move rearwardly, the detents 31 passing beneath the lowermost package 15 and springing up beyond the rear edge of the same. A continued rotation of handle 38 will start said rod and chute on their return movement, the detents 31 causing the lowermost package 15 to also move forward to 30 the delivery opening 47. As this return movement starts, the coin is released by the end of plunger 33 and drops through opening 42 into box 43. In order to steady rod 33 in its movement, we provide a guide 48 secured to partition 25 and engaging loop 36. A spring door 49 is also provided to normally prevent access to the interior of the machine through delivery opening 47, 40 said door being so arranged, however, as to permit exit of the packages as delivered by the arms 29.

The advantages of our improved vending machine will be readily apparent from the 45 foregoing.

It will be particularly observed that we have provided an exceedingly simple and sanitary arrangement for vending edible articles to prevent spoiling thereof. It 50 will be further noted that we have produced positively operated means for delivering the packages. It will also be seen that the coin-controlled mechanism is simple in con-

struction and not liable to readily get out of order or become deranged. 55

Having thus fully described our invention, what we claim as new and desire to secure by Letters Patent is:—

1. A vending machine of the character described, comprising a reciprocable coin 60 chute, delivery apparatus operatively connected with said chute, a plunger mounted to pass through said chute and adapted to reciprocate the latter when a coin is held therein, a crank arm engaging the free end 65 of said plunger, means for holding the ends of said plunger in alinement and means for operating said crank arm.

2. A vending machine of the character described, comprising a reciprocable coin 70 chute, delivery apparatus operatively connected with said chute, a plunger mounted to pass through said chute and adapted to reciprocate the latter when a coin is held therein, said plunger having a loop-like por- 75 tion, a crank arm engaging said loop and means for operating said crank arm, and a guide engaging the lower extremity of said loop-like portion.

3. A vending machine of the character 80 described, comprising a reciprocable coin chute, delivery apparatus operatively connected with said chute, a plunger mounted to pass through said chute and adapted to reciprocate the latter when a coin is held 85 therein, means located below said plunger for guiding the latter, and means for reciprocating the same.

4. A vending machine of the character described, comprising a reciprocable coin 90 chute, delivery apparatus operatively connected with said chute, a plunger mounted to pass through said chute and adapted to reciprocate the latter when a coin is held 95 therein, a guide rod located below said plunger, and means for reciprocating said plunger, the free end of the latter being provided with a depending portion engaging said rod.

In testimony whereof we affix our signa- 100 tures in presence of two witnesses.

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Witnesses:

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