

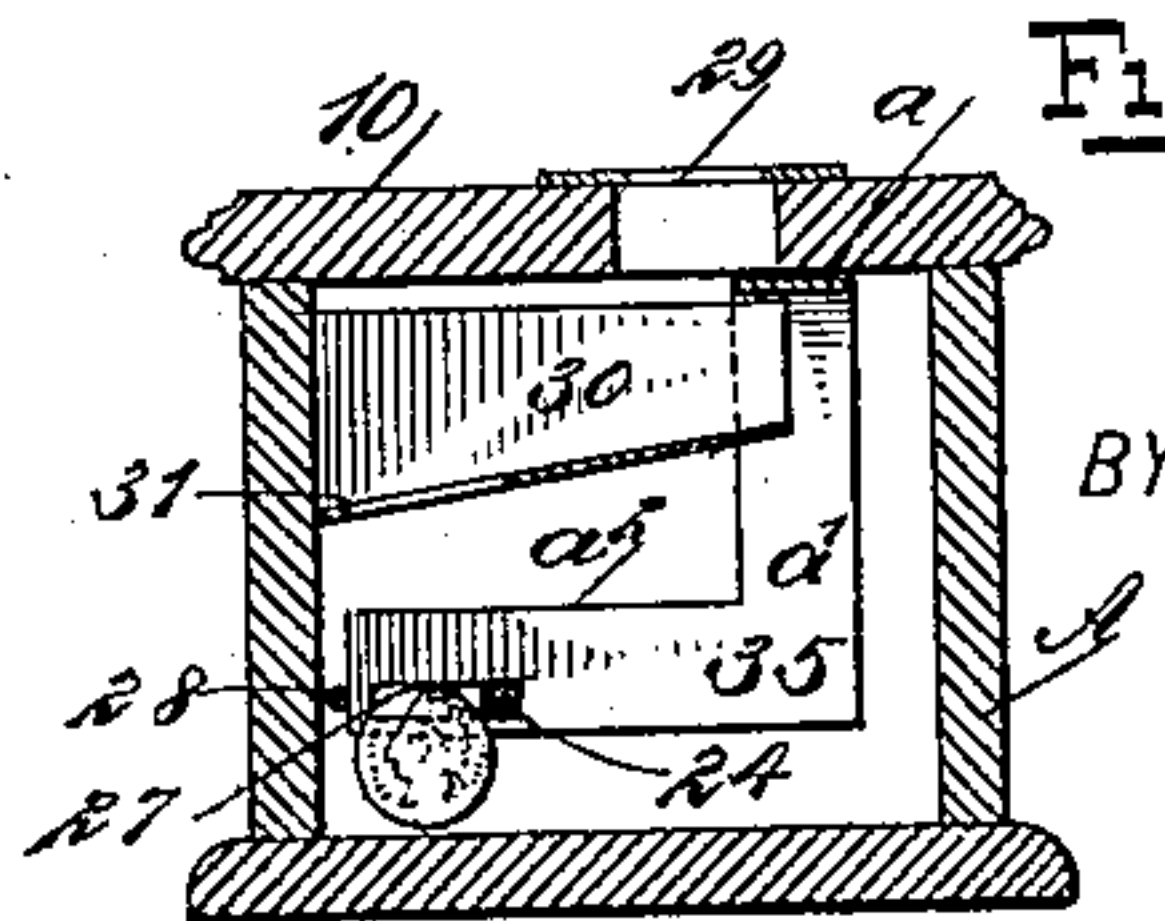
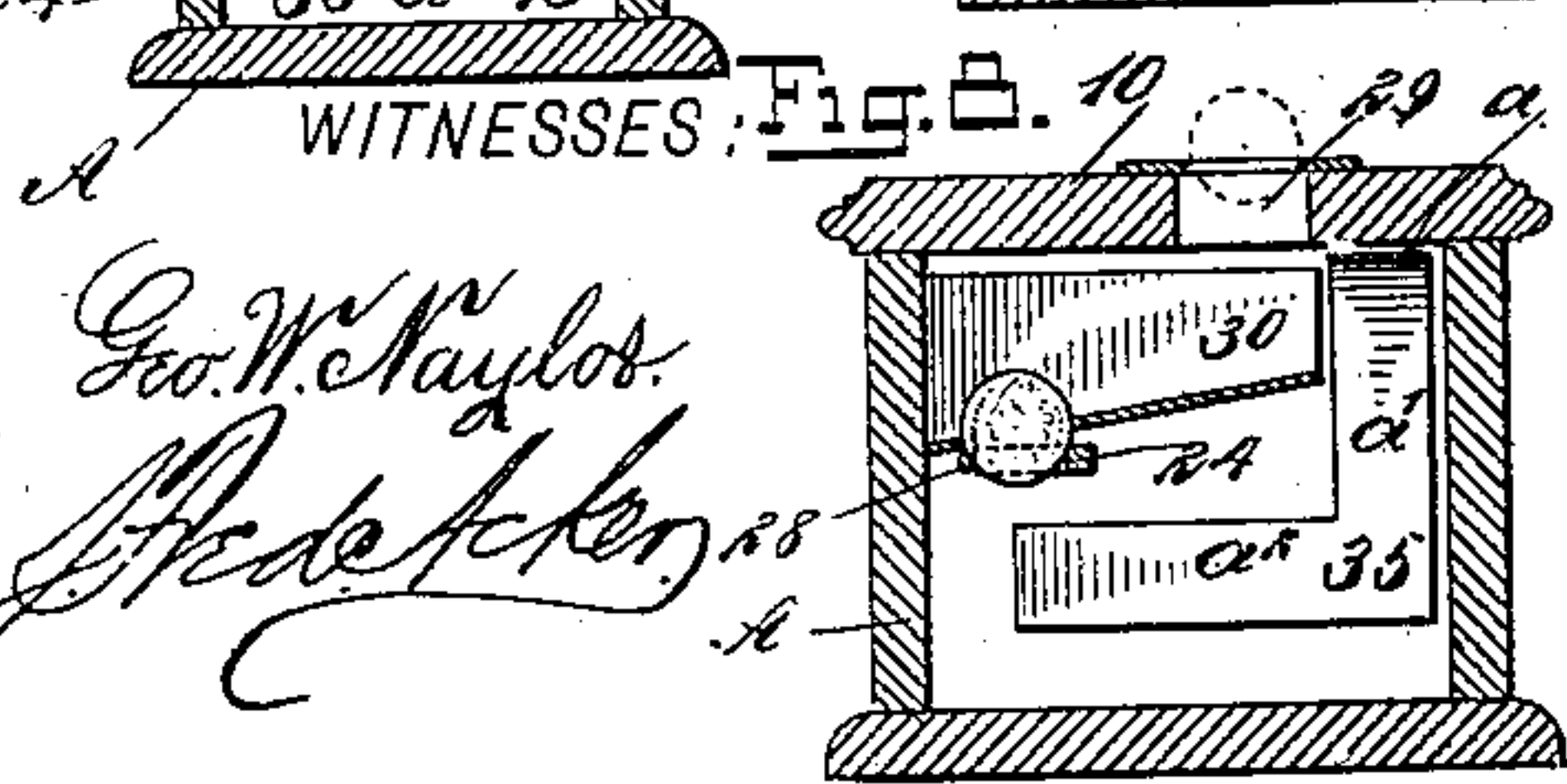
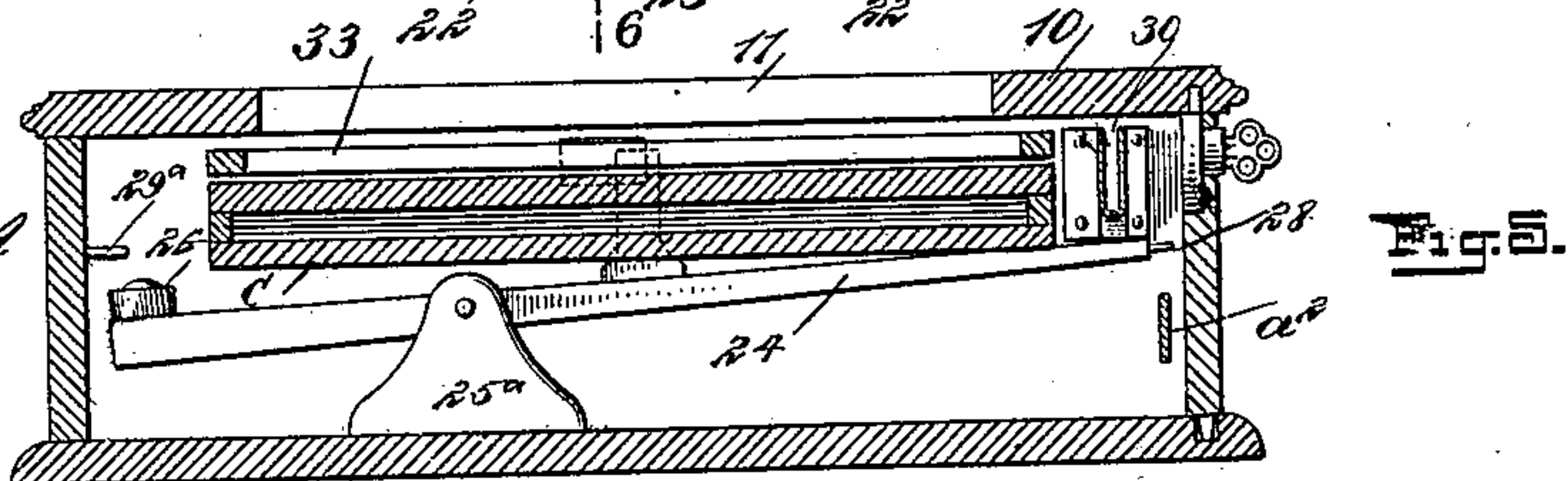
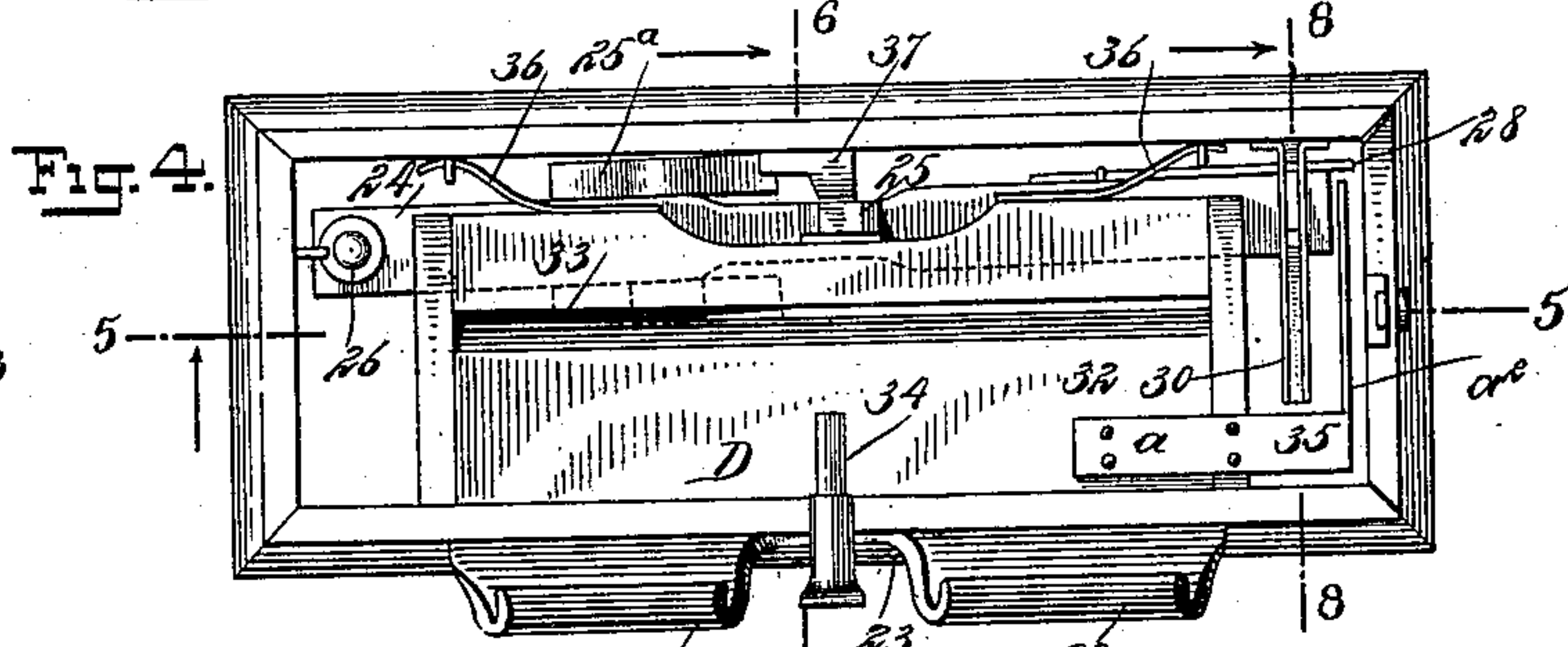
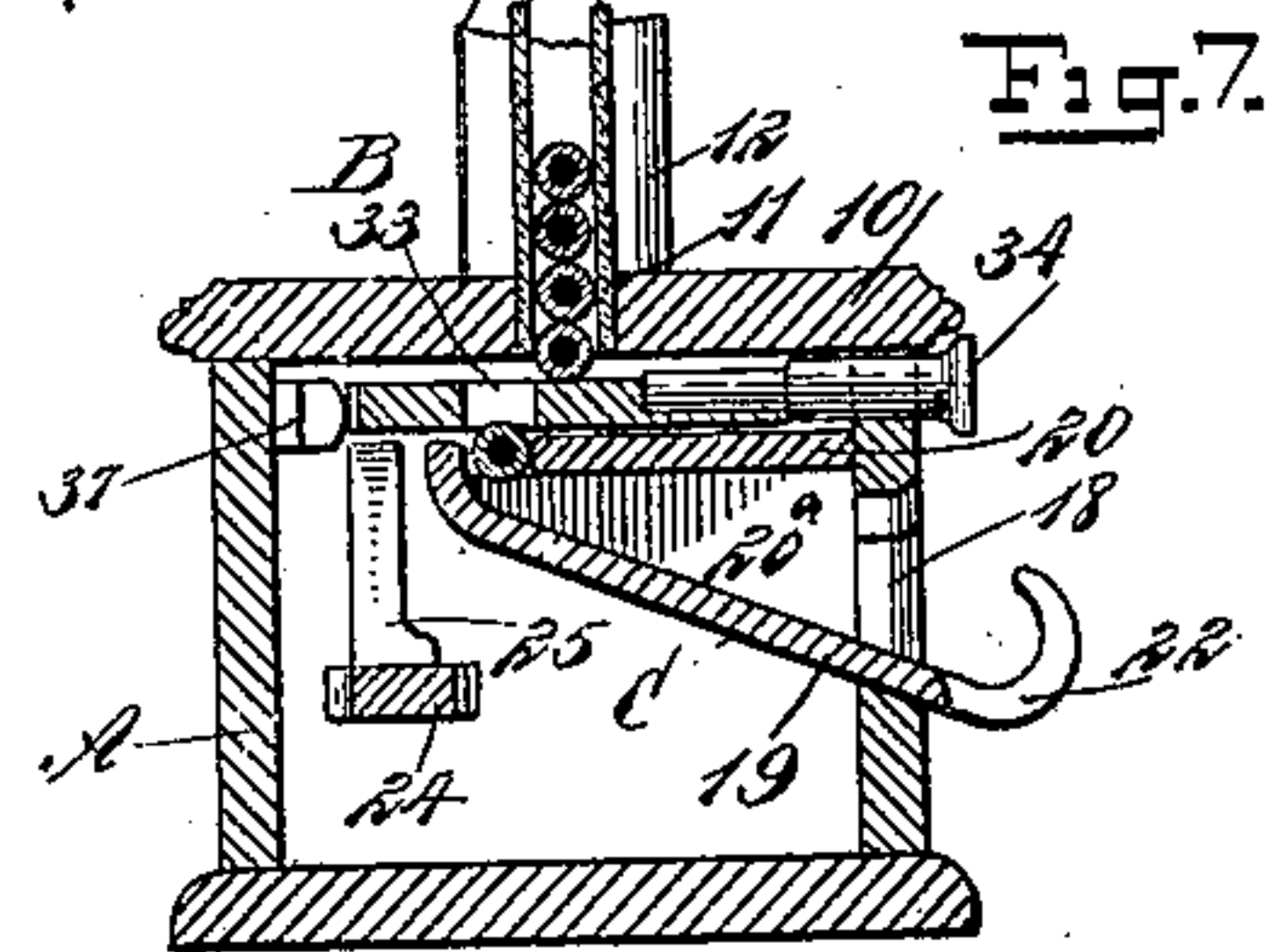
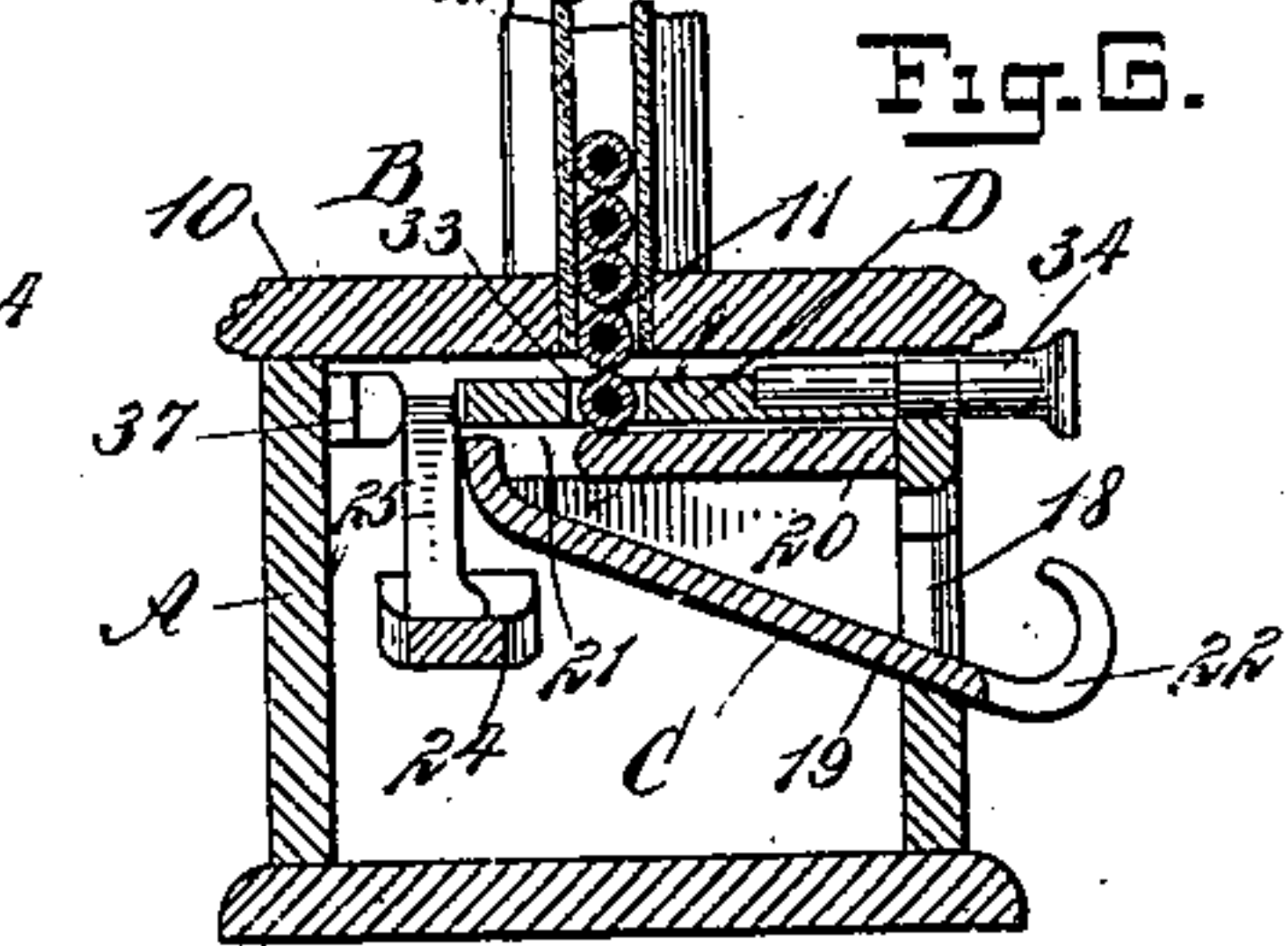
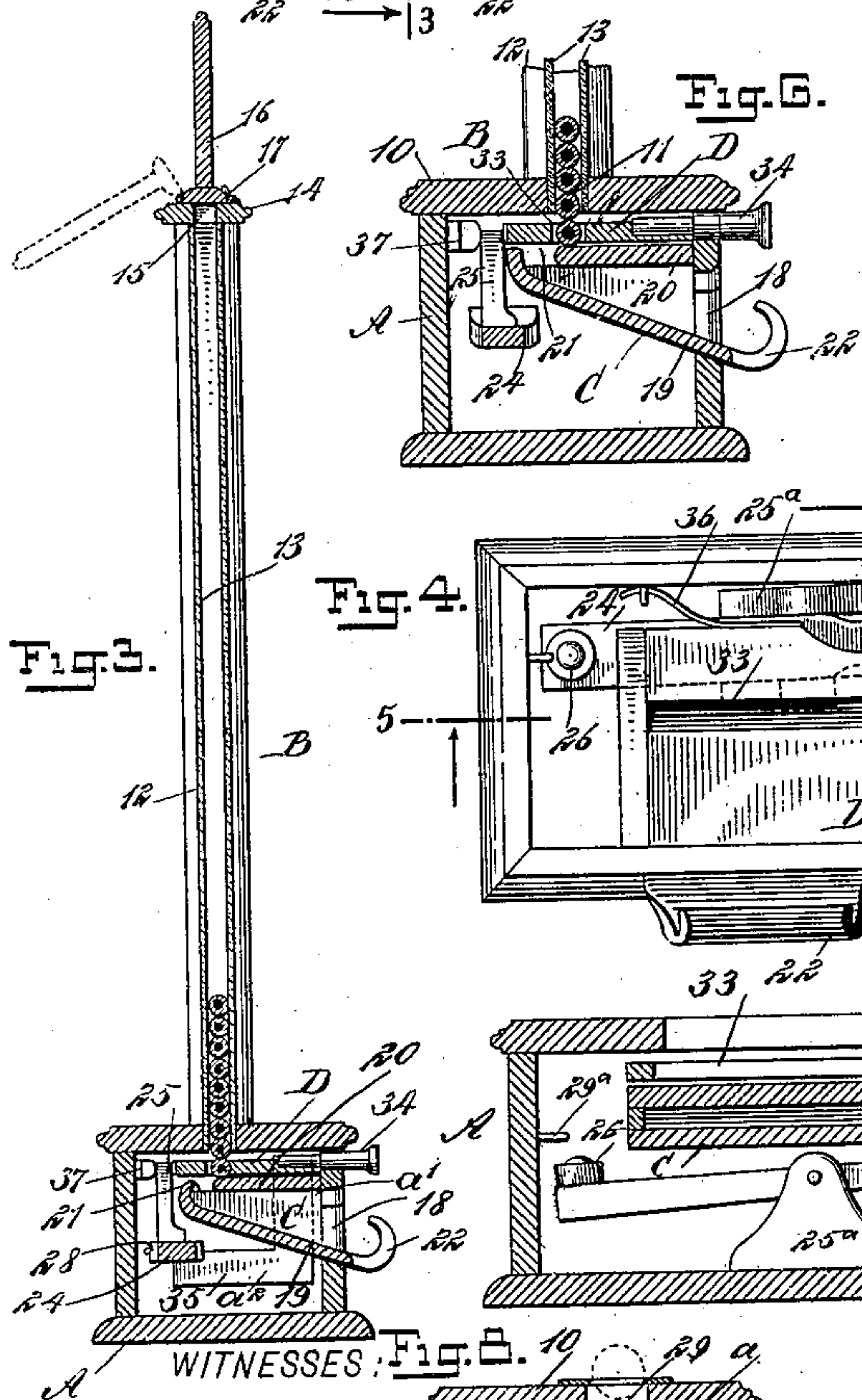
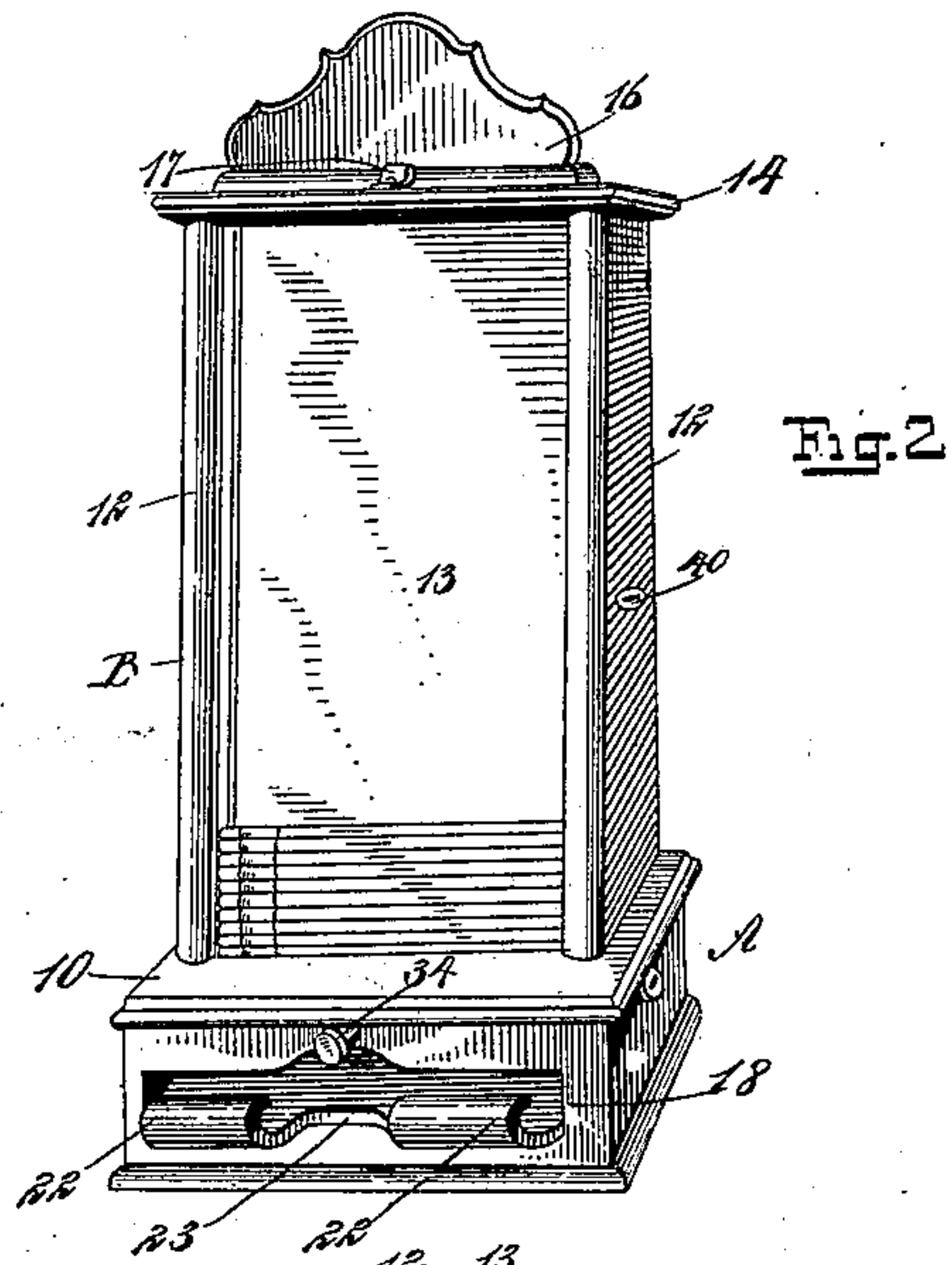
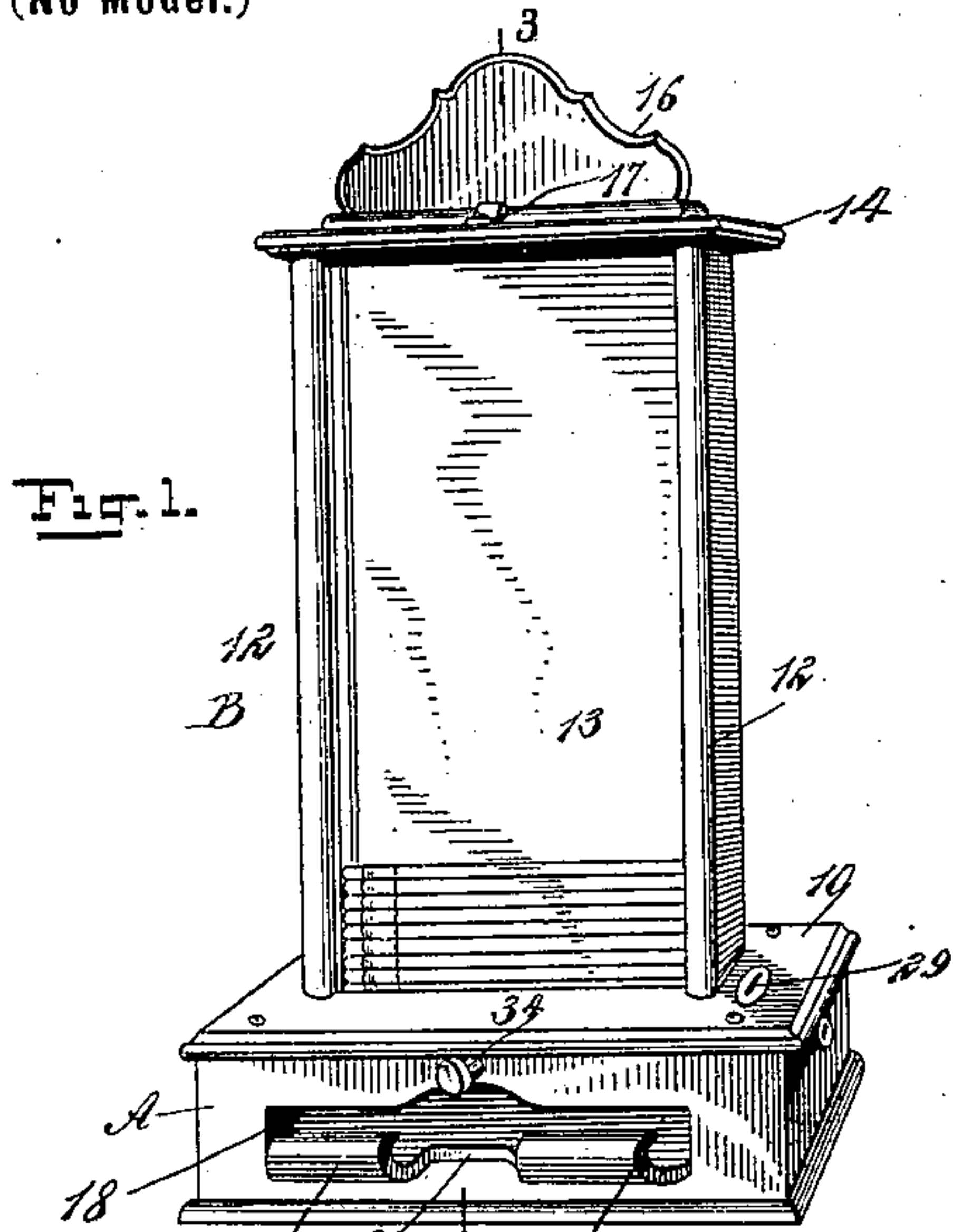
No. 621,614.

Patented Mar. 21, 1899.

W. H. MURPHY.  
VENDING MACHINE.

(Application filed Apr. 21, 1898.)

(No Model.)



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W. H. Murphy.  
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Munroe  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

WILLIAM H. MURPHY, OF FOX LAKE, WISCONSIN.

## VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 621,614, dated March 21, 1899.

Application filed April 21, 1898. Serial No. 678,380. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. MURPHY, of Fox Lake, in the county of Dodge and State of Wisconsin, have invented a new and Improved Vending-Machine, of which the following is a full, clear, and exact description.

The object of my invention is to provide a coin-operated machine particularly adapted for distributing pencils or articles of like type.

Another object of the invention is to construct a machine of this character which will comprise but few parts and which will be accurate in operation and simple, durable, and economic in its construction.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved machine adapted to be placed upon a counter or other horizontal support. Fig. 2 is a perspective view of the machine adapted to be hung from a wall or other perpendicular support. Fig. 3 is a longitudinal vertical section through the machine, taken substantially on the line 3 3 of Fig. 1, the parts being shown in their normal position. Fig. 4 is a plan view of the interior of the base, the top having been removed. Fig. 5 is a longitudinal vertical section through the base on the line 5 5 in Fig. 4. Fig. 6 is a transverse vertical section through the base and a portion of the receptacle for merchandise, the parts being in normal position, the said section being taken substantially on the line 6 6 of Fig. 4. Fig. 7 is a transverse section taken on the same line as Fig. 6, the parts being in position to admit of the discharge of merchandise. Fig. 8 is a transverse section taken substantially on the line 8 8 of Fig. 4, the parts of the machine being in normal position; and Fig. 9 is a section similar to Fig. 8, illustrating the coin-operated lever in position to admit of the discharge of merchandise.

The base A is of box-like construction and is provided, preferably, with a removable top

10, in which top, at the center, a longitudinal opening 11 is made, and upon the top of the base a receptacle B for the pencils is erected, the interior of the receptacle being in communication with the slot 11 in the base. The receptacle B preferably consists of side pieces 12, in which transparent panes 13 are introduced, a top 14 having an opening 15 therein, through which the pencils are introduced into the receptacle, and a cover 16 for the upper opening 15, which cover is usually hinged and is held over the inlet-opening 15 by means of a latch 17 of any approved construction. The cover is usually provided with an attached or integral sign-board or panel, as illustrated.

An opening 18 is made longitudinally in the front of the base, as shown in Figs. 1, 2, 6, and 7, and a portion of a discharge-chute C extends through the opening 18. This discharge-chute, as shown in Figs. 3, 6, and 7, consists of a combined bottom and back 19, inclined in direction of the lower wall of the opening 18, through which the said combined bottom and back passes, a top 20, and suitable end pieces 20<sup>a</sup>. At the rear upper end of the discharge-chute a longitudinal slot 21 is made in the top 20 of sufficient dimension to admit of the passage of a pencil or other merchandise to be delivered into the said chute. That portion of the chute which extends through the opening 18 in the base is curved upwardly, as shown at 22, in order to retain the pencil delivered from the machine in position to be readily removed by the purchaser, and in order that the pencil may be readily grasped a recess 23 is made in the projecting portion 22 of the chute. The chute is fixed to an interior wall of the base in any suitable or approved manner, and the chute is of less length than the length of the base, a space intervening the end walls of the base and the ends of the chute, as shown in Fig. 4.

A lever 24 is located near the back of the base, extending longitudinally thereof. This lever is provided at or near its center with an upwardly-extending post 25, and at one end the lever is provided with a weight 26, while at the opposite end of the lever an opening 27 is made to receive a coin—a penny, for example—the opening extending through the rear longitudinal edge of the lever. The weight serves to normally hold the coin-re-



ceiving lever uppermost and the post 25 in a position to extend some distance beyond the top of the chute C; but the weight is overbalanced by the weight of the coin that is to be placed in the slot of the lever. The coin is temporarily retained in the slot 27 of the lever by a spring-arm 28, which crosses the open end of the slot and extends beyond the slotted end of the lever, as illustrated. The coin is introduced into the base through an opening 29, usually made in the top thereof at one side of the receptacle, as shown in Figs. 1, 8, and 9, and immediately below the opening 29 a coin-receiving chute 30 is located, having a tapering bottom and an opening 31 in the bottom, adapted to register with the slot 27 in the lever, and normally the slotted end of the lever is held in engagement with the bottom of the coin-receiving chute by means of the weight 26. The upward movement of the weighted end of the lever is limited by a pin 29<sup>a</sup>, (shown in Fig. 5,) and the lever 24 is fulcrumed upon a suitable bearing 25<sup>a</sup>, secured to the bottom of the base.

A slide D is located upon the top of the discharge-chute C. This slide consists, preferably, of a flat body portion 32, provided with a longitudinal slot 33 and with a knob 34, extending out through an opening at the front of the base. A trip-arm 35 is attached to one end portion of the slide. This trip-arm is of angular construction and comprises a horizontal member  $a$ , which is attached to the top of the slide and extends beyond the end of the slide adjacent to the coin-receiving chute 30, a vertical member  $a'$ , and a second horizontal member  $a''$ , which extends in the direction of the lever 24. Springs 36 are attached to the rear of the slide, having guided bearing against the rear wall of the base, and a stop or bearing block 37 is secured to the rear wall of the base immediately back of the post 25 of the lever 24 when the said post is in its normal position. When the post is in its normal position, the rear end of the slide will engage with the post 25 and the slide cannot be pushed rearward, but the lowermost pencil will lie in the slot 33 of the slide, resting on the top 20 of the discharge-chute C, as shown in Fig. 6.

When a coin is dropped in the coin-receiving chute, the coin will enter the slot 27 in the lever 24, as shown in Fig. 8, and will bear down that end of the lever, as illustrated in Fig. 9, carrying the post 25 away from the stop-block 37 and below the under face of the slide, as is shown in Fig. 7, whereupon the slide may be pushed backward, compressing its springs 36, and the pencil that is contained in the slot 33 of the slide will be delivered to the inlet-opening in the discharge-chute, as illustrated in Fig. 7, and as the slide is carried rearward to deliver a pencil the lower horizontal member  $a''$  of the trip-lever will engage with the free end of the spring-rod 28, holding the coin in the lever, and will force the rod away from the slot, permitting

the coin to drop to the bottom of the base, whereupon the lever will rise again at its coin-receiving end and the post 25 of the lever will be again brought in position to prevent the rearward movement of the slide, such action occurring as soon as the slide is released. A drawer may be provided for the reception of the coins or one end of the base may be made removable, being usually secured by a padlock or its equivalent.

When the device is to be suspended from a wall or other support, the coin-receiving opening 40 is preferably located in one side of the receptacle, being placed in suitable communication with the chute 30.

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

1. The combination, with a base, a receptacle for merchandise carried by the base, being in communication with the interior thereof, and a discharge-chute located within the base and extending out beyond said base, the said chute being provided with an inlet-opening at its upper rear portion and with an outlet at its outer portion, of a slide mounted between the upper portion of the chute and the said receptacle, the slide being provided with a pocket normally closed but capable of registry with the inlet of the chute, a lever weighted at one end and provided with a coin-receiving slot at the opposite end, the slide extending through one side of the lever, and a retaining-strip crossing the slotted portion of the lever, a stop carried by the lever, being normally held in the path of the slide, and means, substantially as described, for tripping the retaining-strip and releasing the coin held thereby, as and for the purpose specified.

2. The combination, with a hollow base, a merchandise-receptacle located above the base, being in communication with the interior thereof, and a discharge-chute located within the base and extending at one of its ends out beyond the base, the chute being provided with an inlet at its top and with an outlet at its extended end, of a slide adapted to receive merchandise, and arranged to alternately receive merchandise from the receptacle and to deliver the same to the said chute, a coin-operated lever, a stop carried by the lever normally in the path of the slide, and means for releasing the coin from the said lever by the movement of the said slide, substantially as and for the purpose specified.

3. In a vending-machine, the combination of a delivering-slide, a lever provided with a post normally engaging the slide to stop the movement thereof, the lever being actuated by a coin and having a spring-rod serving to hold the coin on the lever, and a trip-arm carried by the slide and serving to engage the spring-rod to dislodge the coin.

4. In a vending-machine, the combination with a base and a merchandise-receptacle mounted thereon, of a chute in the base, a



delivering-slide mounted above the chute to  
move the merchandise thereby, a lever hav-  
ing a post normally engaging the slide to stop  
the movement thereof, the lever being actu-  
5 ated by a coin, a spring-arm carried by the  
lever and serving to retain the coin on the  
lever, and a trip-arm carried by the slide and  
serving to move the spring-arm to dislodge  
the coin.

10 5. In a vending-machine, the combination  
of a delivering-slide, a lever mounted adja-

cent to the slide and serving normally to stop  
the movement of the slide, the lever being  
actuated by a coin, a spring-arm carried by  
the lever and serving to retain the coin on the 15  
lever, and a trip-arm carried by the slide and  
serving to move the spring-arm to dislodge  
the coin.

WILLIAM H. MURPHY.

Witnesses;

F. L. HAWLEY,  
JOHN EGAN.