

July 17, 1923.

1,462,283

P. J. HEGNES

VENDING MACHINE

Filed May 9, 1921

3 Sheets-Sheet 1

Fig. 8.

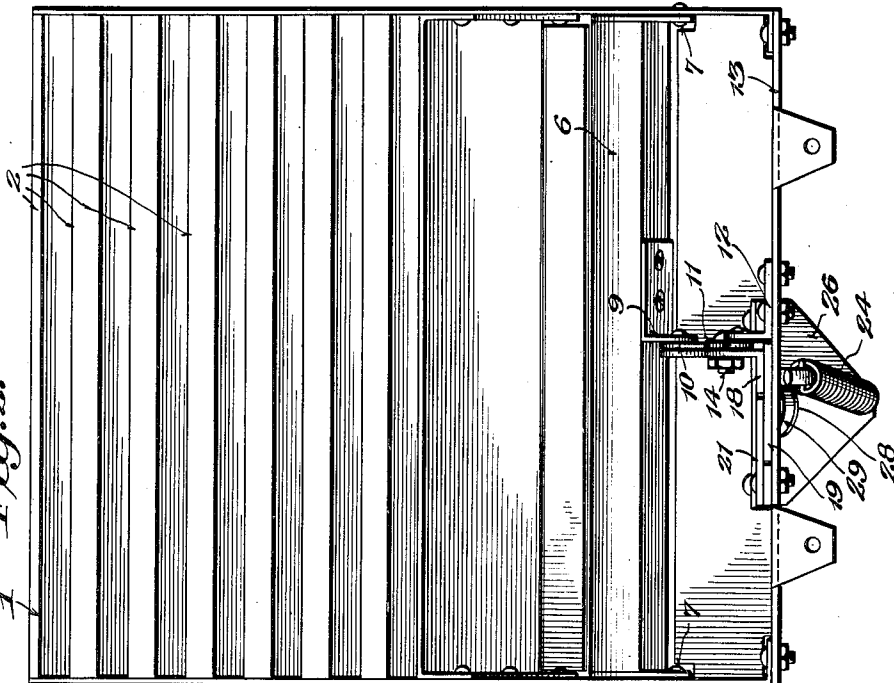
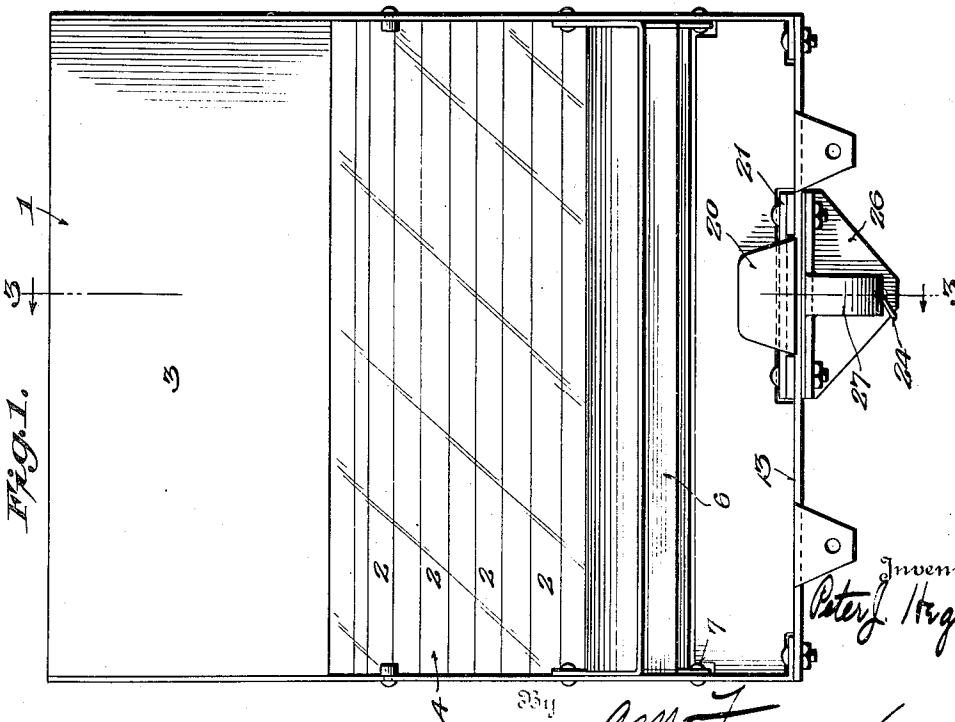


Fig. 1.



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Fig. 3.

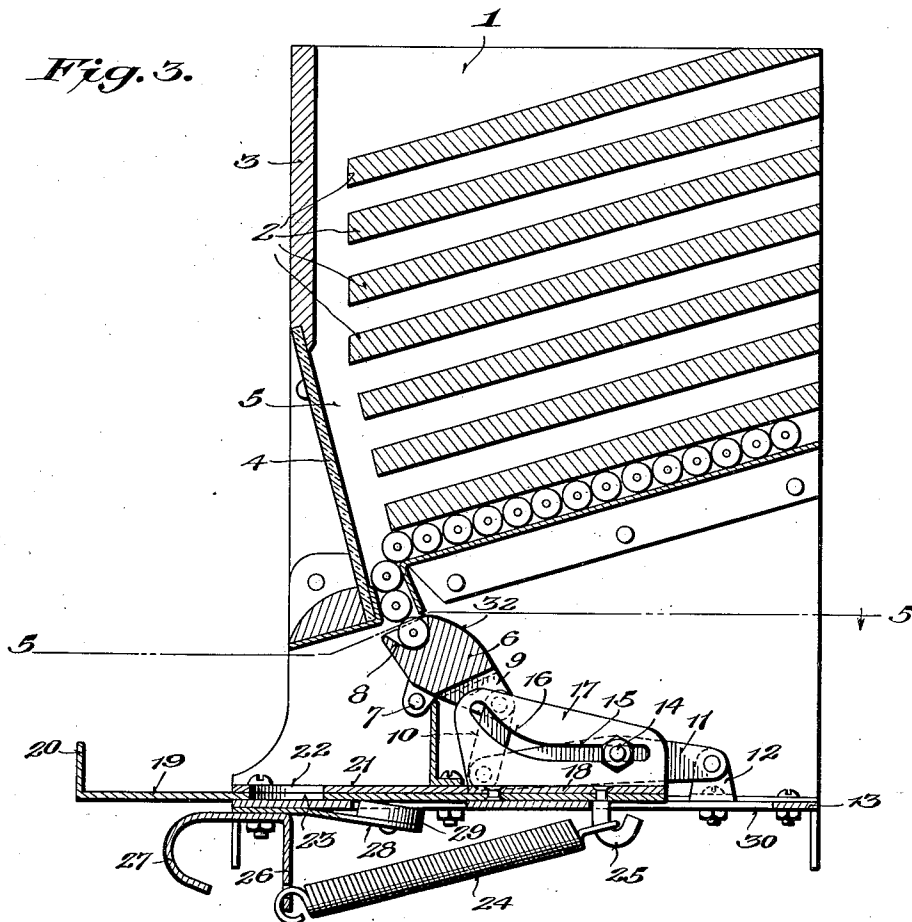
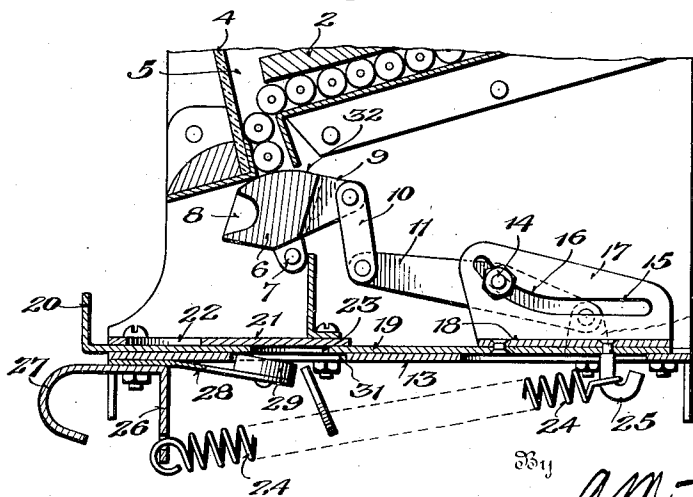


Fig. 4.



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Fig. 6.

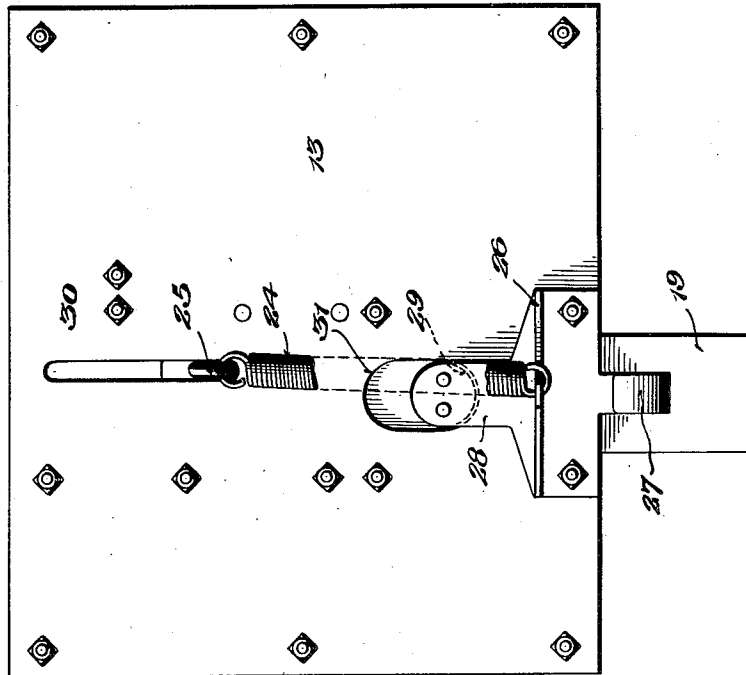
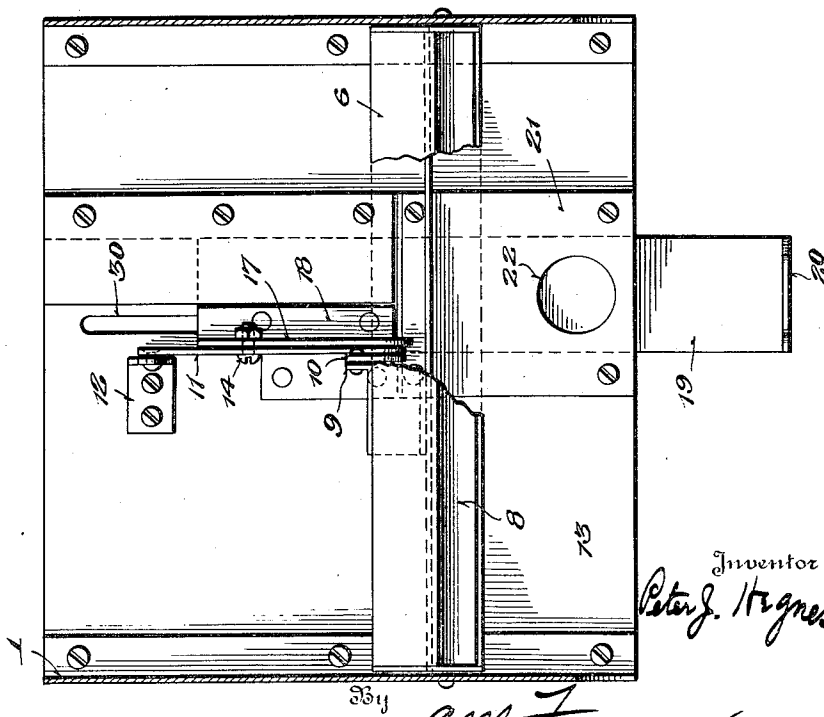


Fig. 5.



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Patented July 17, 1923.

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UNITED STATES PATENT OFFICE.

PETER J. HEGNES, OF CANTON, SOUTH DAKOTA.

VENDING MACHINE.

Application filed May 9, 1921. Serial No. 467,825.

To all whom it may concern:

Be it known that I, PETER J. HEGNES, a citizen of the United States, residing at Canton, in the county of Lincoln and State of South Dakota, have invented certain new and useful Improvements in Vending Machines, of which the following is a specification.

This invention relates to certain new and useful improvements in vending machines and the primary object thereof is to provide a machine of this character which has simple and economical coin-controlled mechanism for effecting delivery of the articles.

A further object of the invention is to provide a machine of this type which has novel and simple means for preventing operation thereof except by introduction of a coin for which the machine is designed for use.

Further the invention aims to provide a vending machine which has simple and positively operating means for delivering the articles and which also has a novel form of container or magazine for holding and displaying, as well as for feeding the articles to the delivery means.

Still further and other objects will be later set forth and manifested in the course of the following description.

Figure 1, is a front elevation of the invention;

Figure 2, is a rear side elevation of the invention, the back plate being omitted;

Figure 3, is a section on line 3—3 of Figure 1;

Figure 4, is a view similar to Figure 3 showing the parts in the position upon completion of delivery of an article;

Figure 5, is a section on line 5—5 of Figure 3, and

Figure 6, is a bottom plan view.

In proceeding in accordance with the present invention a casing 1 is employed which has series of inclined shelves 2, the latter spaced at their front ends from the front wall 3 and from a glass plate 4 which latter forms an extension of the front 3 and allows of inspection of the articles. The present invention is designed for the vending of pencils, but obviously can be adapted for use with other articles, and accordingly the shelves are inclined and spaced from each other and from the casing front to allow the articles to gravitate into and downwardly through a common passageway 5.

Beneath the mouth or discharge end of the passage 5, a receiver 6 is pivoted on pintles 7, the receiver having a groove 8 to receive the articles. An ear 9 is carried by the receiver and is pivoted to a link 10, the latter in turn being pivoted to an arm 11. The arm 11 is pivoted to an ear 12 borne by the bottom 13 of the casing. The arm 11 carries a lateral bolt 14 which extends into a slot 15 having a forwardly and upwardly curved end 16, that is formed in a flange 17 of a plate 18, the latter being secured to a slide 19 having a finger engaging part 20. A coin receiving plate 21 is formed with a coin opening 22 in which the coin is placed, the plate overlying the slide 19 and the latter having a similar coin opening 23. The slide is tensioned by a coil spring 24 which is connected at 25 thereto and at its opposite end is connected to the rear depending end 26 of a curved finger grip 27, the latter being located so that the middle finger can be engaged therewith and the thumb used to press against the part 20 to operate the slide.

A spring arm 28 is secured between the grip 27 and the casing bottom and carries a disk-like locking member 29 on its free end, which member is of a size to project into the coin opening 23 of the slide and to lock the latter against further inward movement as will be shortly described.

In operation, a coin is placed in the opening 22 which normally registers with the opening 23 of the slide and consequently enters opening 23 and rests on the bottom 13 of the casing. The slide is then pushed inwardly carrying the coin beneath plate 21 and past the locking disk 29, which latter will be prevented from moving into the opening 23 of the slide by the coin, thus allowing the slide to have its full movement which due to the plate 18 being carried by the slide, will move the plate rearwardly from the position of Figure 3 to that of Figure 4. In this movement of the plate 18, the curved end 16 of the slot 15 will move the bolt 14 upwardly causing arm 11 to swing upwardly about its pivot and through the link 10 will move the delivery member 6 about its pivots to oscillate same and thereby effect delivery of an article.

Should however a coin of less thickness be placed in the slide coin opening or the slide be moved or operated without any coin being placed therein, it will be seen that the locking disk 29 will, due to the fact that it

is constantly being pressed upwardly by the spring arm 28, enter the slide coin opening and prevent a full or complete operation of the slide. In other words, the slide cannot
 5 be then moved to an extent sufficient to cause its curved end 16 to engage and actuate the parts by and through the bolt 14, and consequently the delivery member will not be operated. Thus in order to deliver or eject
 10 an article, it is necessary to impart to the slide its full movement so that the curved end 16 will engage the bolt 14 and through same move the arm 11 upwardly.

The bottom 13 of the casing has a slot 30 to receive and allow of movement of the spring anchor 25 and also has an opening 31 to receive the locking disk 29.

The delivery member is of approximately oval form and has a curved or convexed
 20 part 32 which when the member is oscillated cuts-off or closes the bottom of the passage to prevent the articles from egressing. A vertical plate 21^a, is secured to the horizontal coin-receiving plate 21 and is located be-
 25 tween the ends of the delivery member.

What is claimed is:

1. In a vending machine, a casing, an article holding magazine having a discharge, a stationary horizontal plate located below
 30 the discharge and having a coin-opening, a vertical plate located rearwardly of the coin-opening and extending upwardly from the horizontal plate and towards the discharge and spaced from the latter, an approxi-
 35 mately oval-shaped delivery member in the space between the discharge and vertical plate and having a depending pivot located so that the ends of the delivery member extend on opposite sides of the vertical
 40 plate, a coin-controlled slide below the horizontal plate, a slotted plate carried by the slide, a horizontal arm pivoted to the casing

at one end, a vertical link pivoted at one end to the other end of the arm and at its other end to the rear end of the delivery member, and a projection on the arm located
 45 between the ends thereof engaging in the slot of the slotted plate, said slot being formed to effect article discharging movement of the delivery member upon actuation
 50 of the slide.

2. In a vending machine, a casing, an article holding magazine having a discharge, a stationary horizontal plate located below the discharge and having a coin-opening, a
 55 vertical plate located rearwardly of the coin-opening end extending upwardly from the horizontal plate and towards the discharge and spaced from the latter, an approximately oval-shaped delivery member in the
 60 space between the discharge and vertical plate and having a pivot located so that the ends of the delivery member extend on the opposite sides of the vertical plate, a coin-controlled slide, a link rearwardly of the
 65 vertical plate pivoted to the rear end of the delivery member, an arm pivoted to the link and to the casing, and means connected to the slide for operating the arm.

3. In a vending machine, a casing, an article holding magazine, a pivoted delivery member disposed to receive the articles from the magazine, a link pivoted at one end to the delivery member, an arm pivoted at one
 70 end to the opposite end of the link and having its opposite end pivoted to the casing, a coin-controlled slide, a slotted member carried by the slide, and a projection on the arm between its ends engaging in the slot of the slotted member to actuate the link and
 75 thereby the delivery member.
 80

In testimony whereof I affix my signature.

PETER J. HEGNES.