

(No Model.)

B. S. DODGE.
COIN CONTROLLED VENDING MACHINE.

No. 511,291.

Patented Dec. 19, 1893.

Fig. 1.

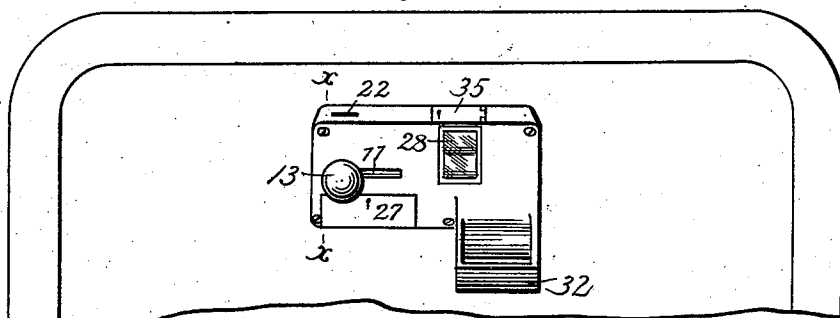


Fig. 6.

Fig. 7.

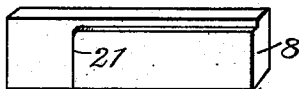
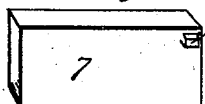


Fig. 3.

Fig. 2.

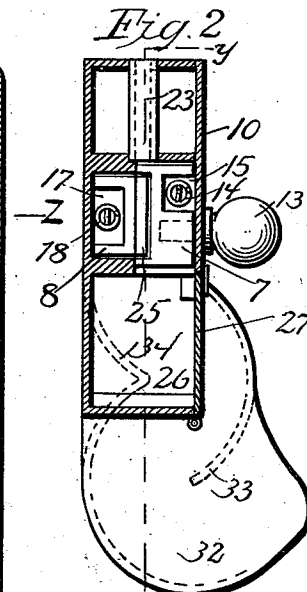
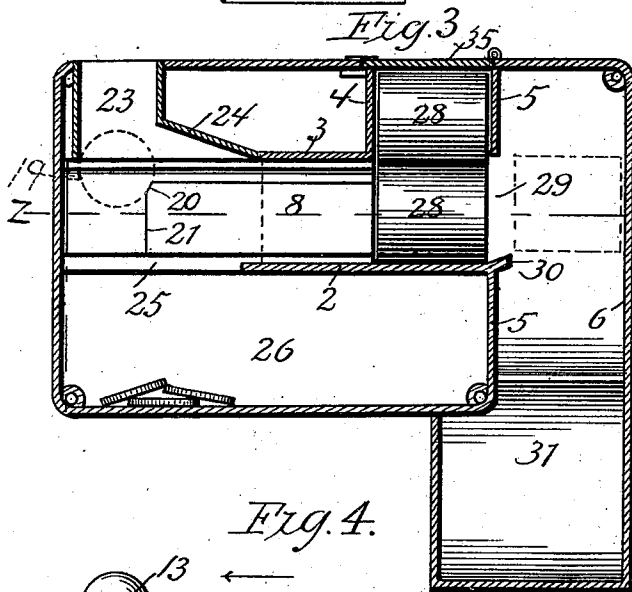
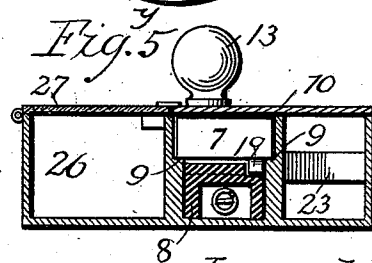
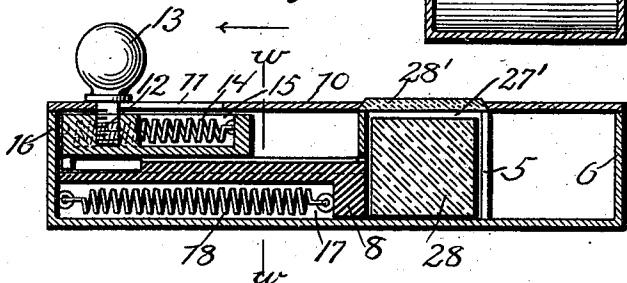


Fig. 4.

Fig. 5.



Witnesses.

J. Jensen
J. F. Hoff

Inventor.

Benjamin S. Dodge.

By Paul V. Hawley attys

UNITED STATES PATENT OFFICE.

BENJAMIN S. DODGE, OF MINNEAPOLIS, MINNESOTA.

COIN-CONTROLLED VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 511,291, dated December 19, 1893.

Application filed March 25, 1893. Serial No. 467,613. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN S. DODGE, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines, of which the following is a specification.

My invention relates to a coin controlled vending machine for dispensing different articles, especially packages of candy; and my object is to provide a cheap, simple and durable device for use particularly in theaters and halls and adapted to be secured upon the backs of the chairs or seats.

My invention consists in general in two parallel bars having inwardly extending lugs between which the coin is caught, springs for holding said bars back and an inclined part, which, as the bars are forced out, wedges the coin down between the lugs thereof to discharge the same.

My invention further consists in various details of construction and in combinations all as hereinafter described and particularly pointed out in the claims, and will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a perspective view showing one of my devices secured to the back of an opera chair or seat. Fig. 2 is an enlarged sectional view thereof on the line $x-x$ of Fig. 1. Fig. 3 is a vertical longitudinal section on the line $y-y$ of Fig. 2. Fig. 4 is a horizontal section on the line $z-z$ of Fig. 3. Fig. 5 is a sectional view on the line $w-w$ of Fig. 4, the box being turned upon its side. Figs. 6 and 7 are detailed perspective views of the two sliding bars.

As shown in the drawings, the moving parts of my device are arranged within a shallow box, which box is separated by partitions 2, 3, 4, 5 and 6 into chambers or compartments for the reception of the coins, the operating bars and the packages. The horizontal partitions 2 and 3 form the guides for the operating bar 7 and the ejecting bar or bolt 8. The bar 7, as shown, is of greater breadth than the ejecting bar and is prevented from bearing thereon by shoulders or ledges 9 arranged in the partitions or walls 2 and 3. In the outside cover or face 10 of the box I pro-

vide a horizontal slot 11, and the shank 12 of the knob 13 projects through this slot and is secured in the outer end of the bar 7. The bar and the knob are both held back by a spring 14 secured to the end wall of the recess 15 in which the spring is accommodated, the opposite end of the spring being fastened to the end wall 16 of the case or box. The inner and longer bolt 8 has a similar recess 17 to accommodate a strong spring 18 having its ends secured to the wall 16 and to the bolt itself whereby the bolt is held back. The outer end of the inner side of the ejecting bolt 8 is recessed or shouldered to accommodate a coin placed edgewise therein, and from the upper and rear corner of the bar 7 projects a lug or pin 19 so arranged that the distance between it and the beveled corner 20 of the shoulder 21 on the part 8, is less than the diameter of the particular coin to be used in operating the box. Hence when a coin is dropped through the slot 22 in the top of the box it falls down through the chute 23 and is held in the position shown by dotted lines in Fig. 3. The knob 13 may then be forced forward and the ejecting bar 8 will be carried along with the bar 7, the coin serving to lock the two together. The chute 23 has an open side or slot and as the bars are carried forward the top of the coin strikes the inclined wall 24 and is thereby gradually pressed down, and the coin serving as a wedge, presses the bar 8 forward in advance of the bar 7 against the tension of its spring until the coin passes the dead center and is finally forced down by the lower end of the incline 24 until the binding action of the two lugs or shoulders upon the coin is insufficient to hold the coin in place, whereupon the same will drop down through the slot 25 in the bottom partition 2 and thence into the coin pocket or chamber 26. The coins may only be removed through the small door or slide 27 arranged in the lower part of the box. Between the walls 4 and 5 is the pocket 27' for the packages 28 containing candy or other articles. This pocket may be made of greater depth in order to accommodate more of the packages, and in order that the user of the box may know that the box contains one or more packages I provide the pocket with a glass face

28' through which the articles may be seen. The wall 5 is provided with the large opening 29 through which a package may be forced and the end of the bolt 8 projects through an opening in the wall 4, so that when the box is operated by a coin, the bar is pressed against the end of the package to force the same out over the upraised ledge or blind 30 and into the drop chute 31 arranged between the walls 5 and 6. The chute is provided with a cup 32 at its lower end, which part projects beneath the underside of the box, and the chute preferably has an irregular form, the ends of the walls 33 and 34 shown in dotted lines in Fig. 2 being intended to prevent the insertion of any instrument whereby packages may be drawn into the drop chute without first placing a coin in the box. I preferably provide a small door or slide 35 in the top of the box above the pocket so that new packages may be easily inserted therein.

I thus provide a device made up of very few parts, all of which are strong and durable, and further, which may be adapted for using packages or articles of almost any shape, such as packages of candy, gum, tobacco, cigars, stamps, or like articles.

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

1. In a vending machine, the longitudinally arranged bars, each provided on its inner side with a lug or shoulder and a longitudinal slot being provided between said lugs, in combination with guides for said bars, springs for normally holding back said bars, an inclined wall or shoulder with which the coin engages and by which it is pushed down to force one of said bars forward with respect to the other to enlarge the slot and permit the discharge of the coin, substantially as described.

2. In a vending machine, the longitudinally

arranged bars, each provided on its inner side with a lug or shoulder and a longitudinal slot being provided between said lugs, in combination with guides for said bars, springs for normally holding back said bars, an inclined wall or shoulder with which the coin engages and by which it is forced down to force one of said bars forward with respect to the other, to enlarge the slot and permit the discharge of the coin, a coin receptacle arranged beneath said bars, a package receptacle provided opposite the end of the bars and a package discharge chute or opening, substantially as described.

3. The combination, in a coin controlled vending machine, of the box having the coin chute 23, with the bars 7 and 8, the guides thereof, said guides provided with shoulders 9, said bar 7 provided with the lug 19, the operating knob connected with the bar 8, the inclined wall 24, and the springs 14 and 18, attached to said bars, said wall serving to force down the coin to separate the bars and permit the discharge of the coin, substantially as described.

4. The combination, in a coin controlled vending machine, of the box having the coin chute 23, with the bars 7 and 8, the guides therefor, said guides provided with shoulders 9 said bar 7 provided with the lug 19, the operating knob connected with the bar 8, the inclined wall 24, the springs 14 and 18, the package pocket, the blind ledge 30, and the tortuous drop chute provided with the receiving cup, all substantially as described.

In testimony whereof I have hereunto set my hand this 15th day of March, 1893.

BENJAMIN S. DODGE.

In presence of—

C. G. HAWLEY,
F. S. LYON.