Mar. 27, 1923. 1,450,058.

D. ALLEN.

ADJUSTABLE ARTICLE RECEIVER FOR VENDING MACHINES.

FILED DEC. 6, 1921. 2 SHEETS—SHEET 1.

Fig. 1.

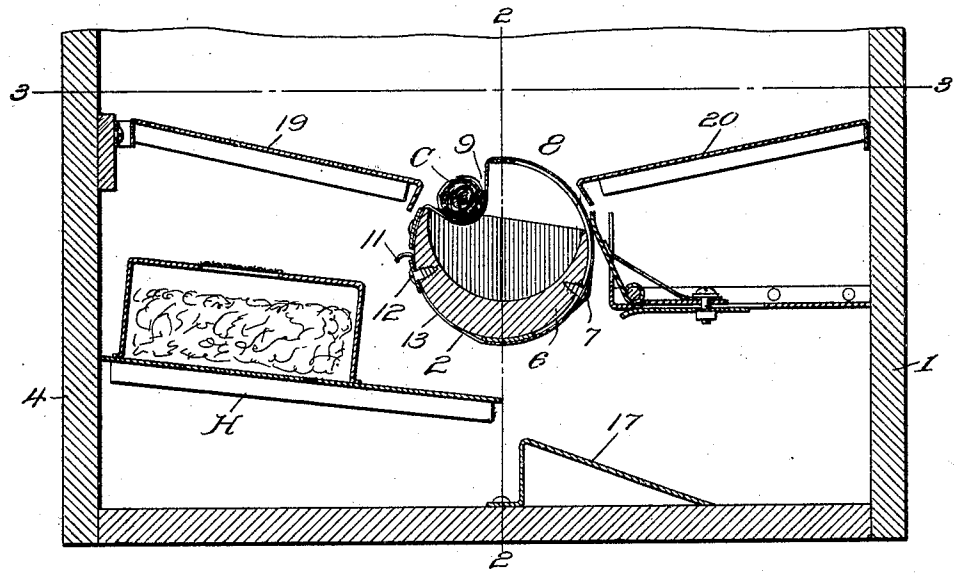
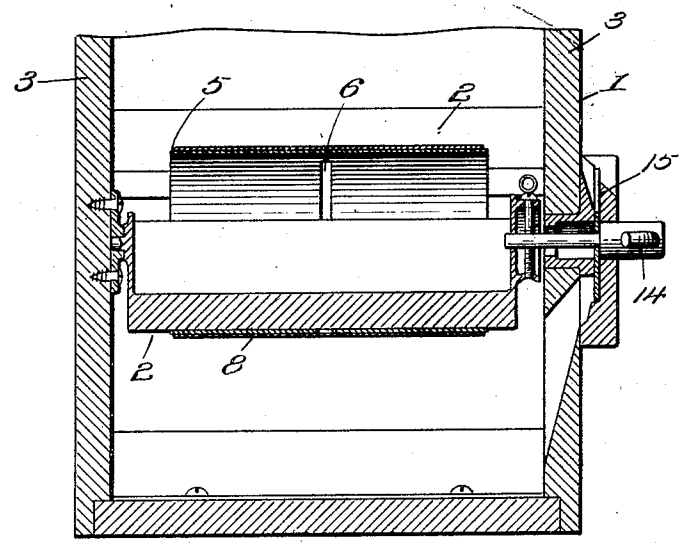


Fig. 2.



David Allen. INVENTOR.

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Fig. 3.

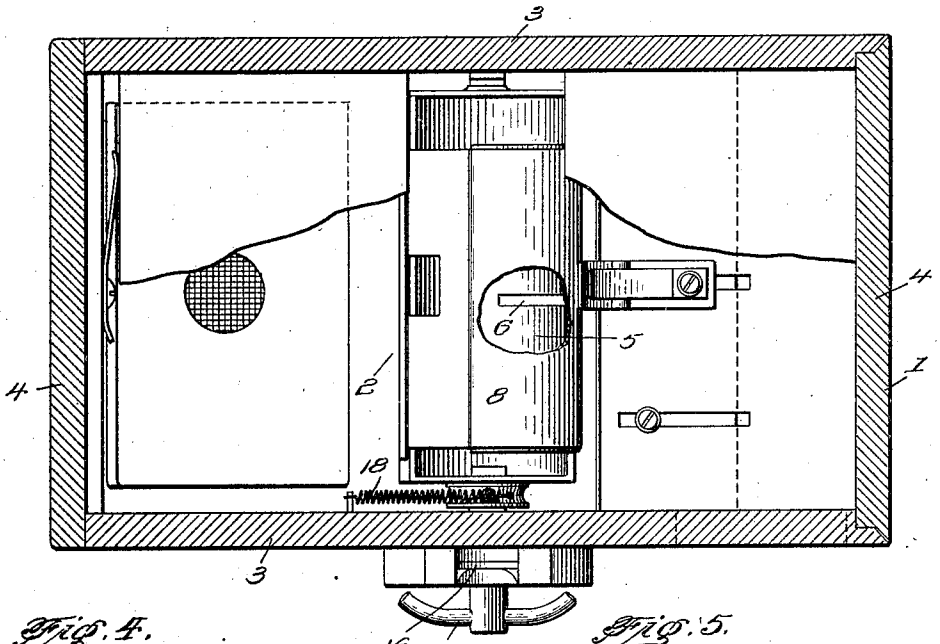


Fig. 4.

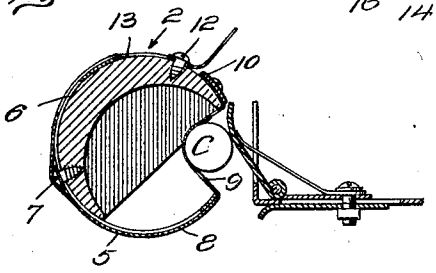


Fig. 5.

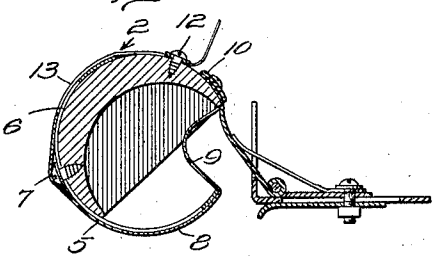


Fig. 6.

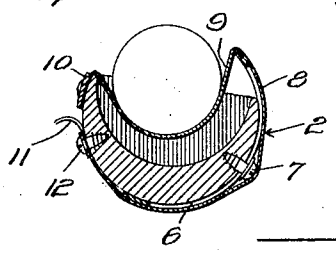
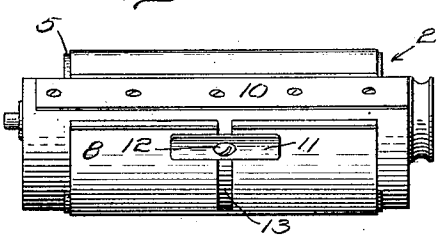


Fig. 7.



David Allen. INVENTOR.

BY

Geo. P. Kimmel.

ATTORNEY.

Patented Mar. 27, 1923. 1,450,058

UNITED STATES PATENT OFFICE.

DAVID ALLEN, OF NEW YORK, N. Y.

ADJUSTABLE ARTICLE RECEIVER FOR VENDING MACHINES.

Application filed December 6, 1921. Serial No. 520,303.

To all whom it may concern:

Be it known that I, DAVID ALLEN, a citizen of the United States, residing at New York, in the county of Bronx and State of New York, have invented certain new and useful Improvements in an Adjustable Article Receiver for Vending Machines, of which the following is a specification.

This invention relates to vending machines and more particularly to article delivery or dispensing mechanism therefor.

The object of the invention is to provide an article carrier or dispensing drum equipped with an adjustable receiving and holding means for use in dispensing articles of different sizes.

Another object is to provide a simply constructed drum of this character having a readily changeable article holding and delivering chamber.

Another object is to provide an adjustable guard for use in connection with a drum of this character and having an adjustable drum locking member carried thereby.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown, described and claimed.

In the accompanying drawings:—

Figure 1 represents a longitudinal section of a vending machine equipped with this improved carrier, parts being broken off for convenience in illustration.

Fig. 2 is a transverse section taken on the line 2—2 of Fig. 1.

Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1, with parts broken out to disclose members in the bottom of the machine.

Fig. 4 is a detail transverse section of the drum and the locking means therefor, with the receiving or delivery chamber shown of a size to dispense a cigar, and with the locking mechanism shown in the position assumed when the cigar is being discharged.

Fig. 5 is a similar view with the drum shown engaged by the locking mechanism which occurs when no article is carried in the delivery chamber.

Fig. 6 is a similar view with the drum shown in normal position, and the receiving chamber adjusted to receive articles larger than a cigar, and,

Fig. 7 is a side elevation of the delivery drum detached.

In the embodiment illustrated, a casing 1 of a vending machine is shown in the end wall 3 of which is rotatably mounted a hollow delivery drum 2. This drum 2 is preferably constructed of wood although obviously it may be of any other suitable material and as shown is crescent shaped in cross section and a transversely curved sheet metal section 5 adjustably mounted circumferentially thereon as is shown clearly in Figs. 1, 4, 5 and 6. The sheet metal section 5 is slotted transversely as shown at 6 and is adjustably mounted on the drum proper by means of a screw 7 which extends through said slot 6 into the drum body and holds the shell or section 5 with its free end adjusted toward or away from the adjacent edge of the drum body the desired distance to form a receptacle or seat for the article to be vended.

A flexible covering 8 composed of any suitable material is designed to be wrapped around the drum and span the space between the free edge of the shelf 5 and the opposed edge of the drum body and said covering is adapted to be extended into the drum between the edges to form a seat 9 for the article to be vended.

As shown the covering 8 is secured at one end to a metal strip 10 which is fixedly secured to the drum adjacent one of its free edges and the covering bridges the space between said edge and the opposed edge of the shell 5 and is secured in adjusted position by any suitable means, a button 11 being here shown for this purpose, the shank 12 of which extends through a longitudinally disposed slot 13 formed in the free end of the seat forming cover 8, as is shown clearly in Fig. 7.

From the above description, it will be obvious that the seat 9 may be varied by adjusting the shell 5 relatively to the body of the drum so that the opposed edges thereof will be closer together or further away from each other according to the size of the seat to be formed and the article to be vended and that after so adjusting the shell, the cover 8 will be correspondingly adjusted to increase or decrease the size of seat 9, Figures 1, 4 and 5 showing seat 9 of a size to receive and dispense a cigar C while Fig. 6 shows a larger size seat to accommodate an article of larger size to be dispensed or vended.

To adjust the covering 8 to vary the size

of seat 9, all that is necessary is to release the button 11 and draw the covering in one direction so as to decrease the size of the seat 9 or to loosen it and draw it in the other direction to increase the size of said seat.

It will thus be seen that this improved dispensing drum may be easily adjusted for discharging articles of different sizes and yet is simple and cheap to manufacture.

To provide for the rotation of the drum 2 by a handle 14 outside the casing 1, a coin controlled disk 16 is connected with the hand grip 14 and with the drum so that when a coin of suitable size is inserted in the chute or slot 16, the handle and drum will be connected so that the drum may be rotated to discharge the article contained in the seat 9, which drops onto an inclined delivery chute 17 from which it may be removed by the purchaser.

A coiled spring 18 is connected with the drum 2 and with one wall of the casing 1 for returning the drum to normal position after the article has been discharged therefrom. The supply shelves 19 and 20 for the drum 2 and the locking means for the drum are the same as those shown in my Patent No. 1,297,775, issued March 18, 1919.

Figs. 1 and 2 show the machine constructed to deliver cigars and consequently a humidor H is shown in connection therewith but obviously this may be omitted since it is not used except when cigars are to be vended.

The gist of this invention resides in the peculiarly constructed drum having the seat 9 adjustable for delivering articles of different sizes and the coin controlled disk 15 may be of any desired size and adapted to receive any desired coin according to the price of the article to be dispensed by the machine.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that any modifications within the scope of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

I claim:—

1. An article delivery device for a dispensing machine comprising a rotary drum having a circumferentially and radially adjustable article receiving seat to dispense articles of different sizes.

2. An article delivery device for a dispensing machine comprising a hollow drum composed of two sections telescopically engaged and circumferentially adjustable relatively to each other, said sections having openings therein to register and cooperate to vary the size thereof, and a covering to span said openings and form a seat for the articles to be delivered.

3. An article delivery device for a dispensing machine comprising a hollow drum composed of two sections telescopically engaged and circumferentially adjustable relatively to each other, said sections having openings therein to register and cooperate to vary the size thereof, and a flexible covering to span said openings and form a seat for the article to be delivered.

4. An article delivering device for a dispensing machine comprising a hollow rotary drum composed of two circumferentially adjustable sections having longitudinal openings therein, the edge of the opening in one section being adjustable toward the opposed edge of the opening in the other section to vary the distances between them and the flexible covering spanning the distance between said edges and adapted to extend into the drum and form a seat for the article to be dispensed.

5. A delivery drum for vending machines comprising two hollow semi-cylindrical sections engaged with each other to telescope circumferentially relatively one to the other, one of said sections being slotted circumferentially and the other having a headed fastener to extend through said slot and adjustably connect the sections, and a flexible covering secured at one end to one of said sections adjacent the edge thereof and spanning the space between the sections and adjustably connected to the other section.

6. An article delivery device for dispensing machines comprising a hollow drum having an opening in the perimeter thereof, a flexible covering secured at one end to said drum adjacent said opening and spanning the opening and extending into the drum to form a seat, the other end of said covering being longitudinally slotted, and a button for securing said end, the shank of which extends through said slot.

In testimony whereof, I affix my signature hereto.

DAVID ALLEN.