Dec. 15, 1931. N. L. TARSHIS 1,836,734

VENDING MACHINE

Filed Feb. 14, 1931 2 Sheets-Sheet 1

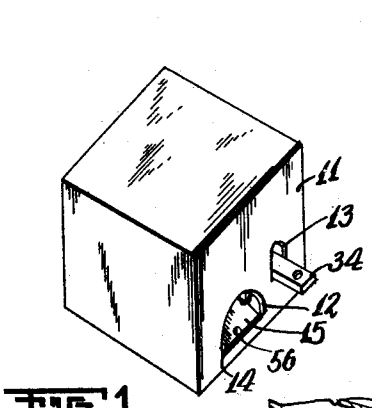

FIG 1

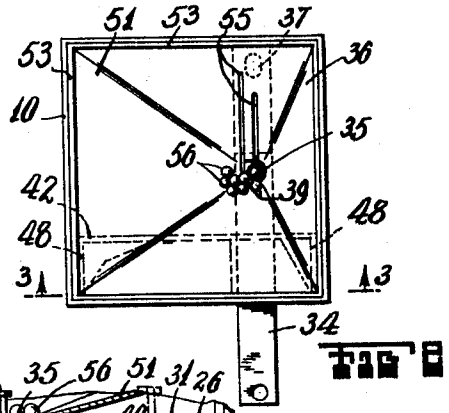

FIG 2

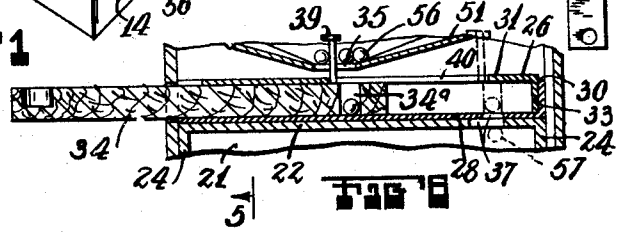

FIG 6

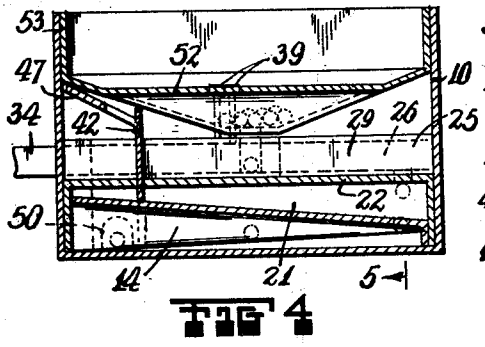

FIG 4

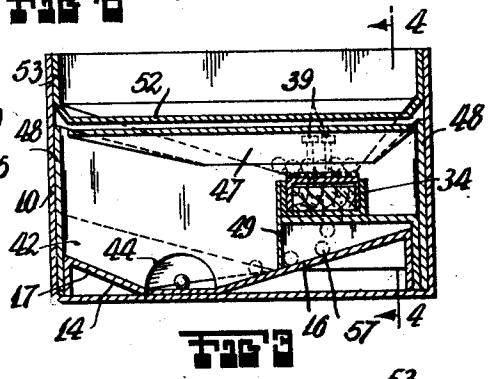

FIG 3

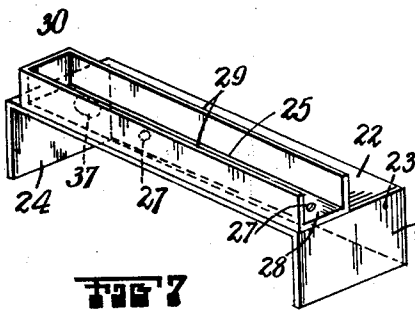

FIG 7

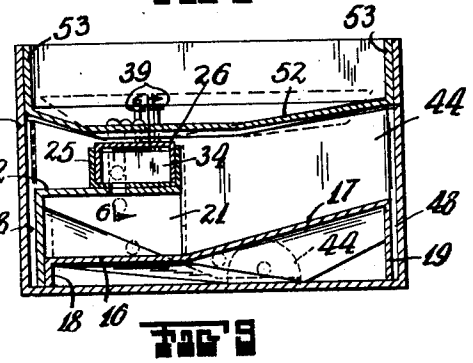

FIG 5

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Dec. 15, 1931. N. L. TARSHIS 1,836,734

VENDING MACHINE

Filed Feb. 14, 1931 2 Sheets-Sheet 2

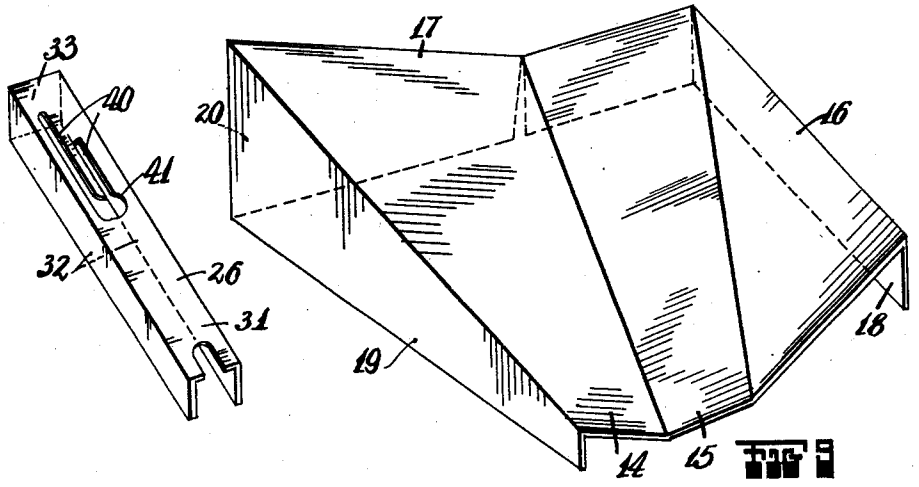

FIG 8 FIG 9

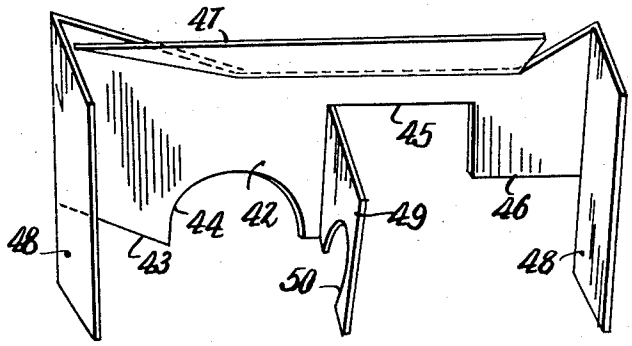

FIG 10

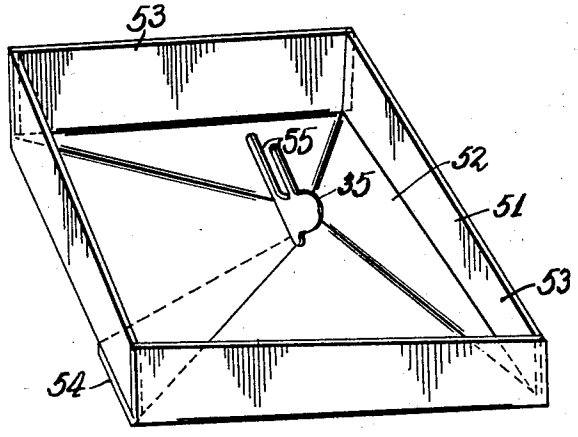

FIG 11

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Patented Dec. 15, 1931

1,836,734

UNITED STATES PATENT OFFICE

NATHAN L. TARSHIS, OF BROOKLYN, NEW YORK

VENDING MACHINE

Application filed February 14, 1931. Serial No. 515,677.

This invention relates to new and useful improvements in a vending machine of cardboard or the like to vend gum or the like.

The invention has for an object the provision of a vending machine which is characterized by a box and various parts therein shaped in position so as to maintain their positions without being actually fastened together.

A still further object of this invention is to provide a base member to direct the discharge of the gum from the box, means for controlling the discharge, a partition member dividing off the outlet of the discharge from the other portions of the interior of the box, and a top member to hold a supply of gum or the like to be discharged.

A still further object of this invention is to arrange flanges on the base member, the discharge member and the partition member capable of engaging each other and the sides of the box to constitute the holding.

It is a still further object of this invention to arrange the top member with flaps to engage against the inner sides of the box to serve to maintain its position.

And a still further object is to construct a device of the class mentioned which is of simple durable construction, dependable in use and efficient in action, and which can be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:—

Fig. 1 is a perspective view of a vending machine constructed according to this invention.

Fig. 2 is a plan view of Fig. 1, but shown with the top cover of the box removed.

Fig. 3 is a transverse vertical sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a transverse vertical sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is a transverse sectional view taken on the line 5—5 of Fig. 4.

Fig. 6 is a fragmentary enlarged transverse sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a perspective view of a portion of the vending means.

Fig. 8 is a perspective view of another portion of the vending means which cooperates with the parts shown in Fig. 7.

Fig. 9 is a perspective view of the base member used in the device.

Fig. 10 is a perspective view of the partition used in the device.

Fig. 11 is a perspective view of the top member of the device.

The vending machine according to this invention comprises a box formed from a bottom section 10 and a top section 11. In Fig. 1 the top section is shown engaged in place on the bottom section, while in the other figures of the drawings it is shown removed. A discharge opening 12 is formed in the box for the discharge of the gum and another opening 13 for the operation of the vending means. The top section 11 consists of a top member connects with a plurality of vertical sides so as to be open at the bottom and engageable over the bottom member which consists of a bottom with a plurality of upwardly directed vertical sides so as to be open at the top.

A base member 14 is positioned within and upon the bottom of the box section 10. This base member is shown in detail in Fig. 9 and is so constructed as to direct the discharge of the gum through the opening 12. More particularly, the base member 14 has an inclined central track portion 15 which terminates in the vicinity of the opening 12 in the box. On both sides of the track portion 15, there are inclined sloping portions 16 and 17 respectively which serve to direct the discharge upon the track. On three of the sides of the base member 14, vertical flaps are located for coaction as hereinafter further specified. Numeral 18 indicates the vertical flap on one side, 19 on the other side, and 20 on the third side.

The discharging means is supported upon

a support member 21 shown in detail in Fig. 7. This support member consists of a horizontal top 22, a longitudinal vertical side 23 and end sides 24, so that one side is open. This support member is engaged upon the base member 14 so that the long vertical side 23 engages against the flap 18 and one of the ends 24 engages against the flap 17, while the other end engages across the front edge of the base member. A casing member is arranged on the top of the support member 21 for receiving the slide of the discharging means. This casing member consists of a bottom section 25 and a top section 26. The bottom section has a bottom side 28 attached by rivets 27 on the top side 22 and vertical sides 29 connecting with an end 30. The side opposite the end 30 is open. The top section 26 consists of a top side 31 connected with vertical sides 32 and a rear end 33. The top section 26 is capable of engaging within the bottom section, as clearly shown in Figs. 3, 5 and 6.

A wooden slide 34 is arranged between the casing sections 25 and 26 and normally protrudes from the opened ends through the opening 13 in the box. This slide has an opening 34[a] extending completely through from the top to the bottom, and in an extended position is capable of aligning with an opening 35 in a top member 36 of the device. In a depressed condition of the slide 34, the opening 34[a] is capable of aligning with openings 37 in the bottom side 28 and in the top side 22 of the support member 21. Screws 39 project from the slide 34 and engage in slots 40 formed in the top side 41. These slots communicate with an opening 41 normally aligned with the opening 35 in the top member 36. It should be noticed that the top casing section 26 maintains its position within the bottom section 25 without any actual connection of the parts.

A partition member serves to divide off a portion of the interior of the box section 10 so that one may not insert his fingers through the opening and tamper with the interior mechanism of the device. This partition is shown in detail in Fig. 10. It consists of a transverse portion 42 having a bottom edge with an inclined left hand portion 43 to fit the inclined sloping sides 17 of the bottom member 14, as clearly shown in Fig. 3. The bottom edge of the transverse portion then continues and is formed with a circular opening 44 for the passage of gum therethrough when rolling along the track 15. The bottom edge then continues with a rectangular opening 45 for engaging across the casing section 26 of the discharging means and continues with another straight portion 46 for engaging across the remainder of the top portion of the top side 22 of the support member 21.

The partition also is formed with a top shield 47 which extends substantially along its full length at an inclination so as to shield off the top of the divided space. End flaps 48 are formed upon the ends of the transverse partition and normally engage against the insides of the box section 10 and between the flap 19 of the bottom member and the side 23 of the support member 21. A central vertical shield 49 extends longitudinally to the partition and is formed with a circular opening 50 which serves to close a portion of the opened side of the support member 21 so that if any of the discharging articles roll along the inclined sloping portion 16 of the bottom member, they may also discharge through the opening 12.

A top member 51, illustrated in detail in Fig. 11, is engaged within the top portion of the box section 10. This top member has a bottom 52 of chute form so as to naturally direct various objects which it holds to the opening 35. Each of the sides of the top member is formed with vertical flaps 53 for engaging against the inner sides of the box section 10. The bottom of the chute may rest upon the top section 26 of the casing so as to help in supporting the top member in place. It should be noticed that the top member has a bottom flap 54 formed by a slight overlapping of the parts, and this bottom flap serves to close the seam which is formed when the top member is moved from a flat sheet bent into shape. The screws 39 also project up through slots 55 in the bottom of the top member, which slots communicate with the opening 35.

Balls of gum 56 are shown disposed within the top member 51 and it should be noticed that they seek a position to discharge through the opening 35. It is intended that the device be used as shown in Fig. 1. When a child wishes to buy a piece of gum, for example, he may give the owner the necessary money and then the owner depresses the slide 34 for causing the discharge of one of the balls of gum. This serves to add mystery to the device and is calculated that it will attract the children to the purchase of the articles.

The operation of the device may be traced by assuming it in the condition shown in Figs. 1 and 2. A ball of the gum 56 will fall into the opening 34[a] in the slide, then upon depressing the slide this ball will fall through the openings 37 as indicated by the dot and dash lines 57. The ball thus discharges down upon the inclined sides 16 and the track 15 to the opening 12 where it may be removed. After all of the balls of gum have been discharged, the cover section 11 of the box may be removed and an additional supply added to the top member.

It should be especially noticed that the various flaps of the various members act against each other and against the sides of the box section for maintaining their positions and keeping the positions of the various parts.

This allows the device to be easily taken apart whenever this becomes necessary.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box.

2. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said box consisting of a bottom box section engaged by a top box section, and both of these sections being formed with openings for the discharge of a vended article and for the extension of parts necessary to operate the vending means.

3. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said base member having an inclined track portion with inclined sloping portions on opposite sides thereof.

4. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said discharging means comprising a slide with an opening extending from its top to its bottom and in one position alignable with an opening in said top member and in a depressed position alignable with an opening in a casing supporting said slide to allow discharge of an article within the opening upon the base member.

5. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said discharging means includes a support member comprising a flat top with vertical side flaps engaged upon the base member substantially as desired, and a casing upon said support member for supporting a slide included in said discharging means.

6. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said partition member comprising a transverse member formed with end flaps engageable against the inner sides of said box and against the flaps of said base member and discharging means, an inclined top portion extending substantially its full length, and a longitudinal central shield for location to one side of said discharging means.

7. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, and a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, said discharging means including a discharge slide having a projecting element engaging in a slot formed in a casing of said discharging means and in the bottom of said top member.

8. In a vending machine of the class described, a box, a base discharge member resting on the bottom of said box and having vertical side flaps, discharging means above the base member and having vertical flaps resting on the bottom of said box and against the outer sides of the flaps of the base member, a partition member extending across said base member and discharging means and having flaps between certain of the flaps of said base member and discharging means and the inner sides of said box, and a top member within the top of said box and resting upon said discharging means and having side flaps engaging against the inner sides of the box.

In testimony whereof I have affixed my signature.

NATHAN L. TARSHIS.