

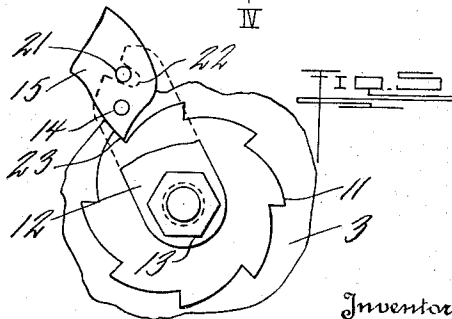
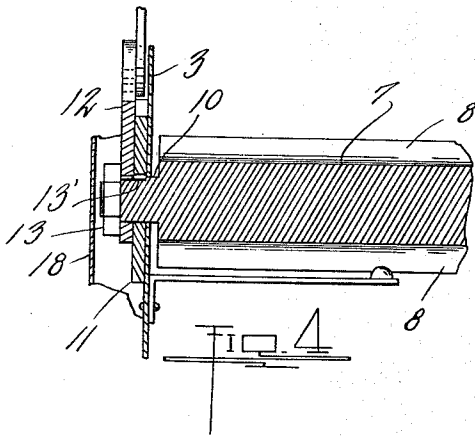
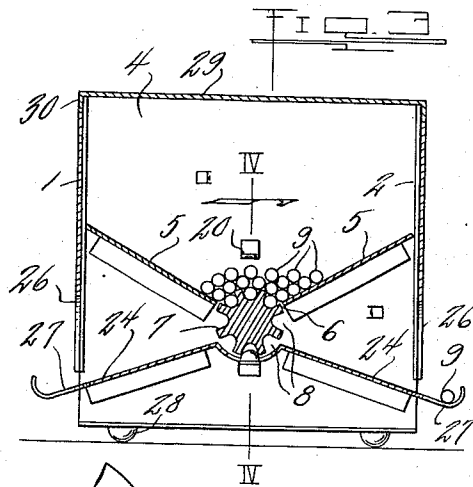
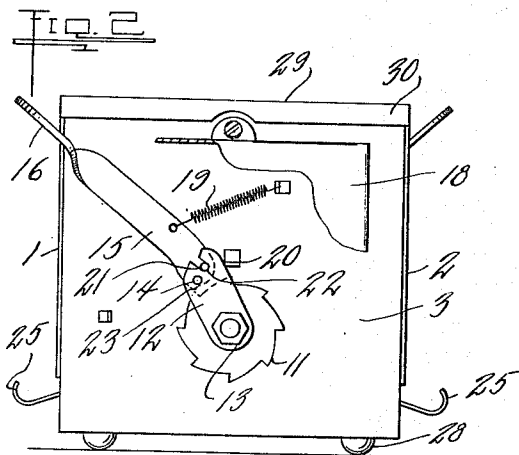
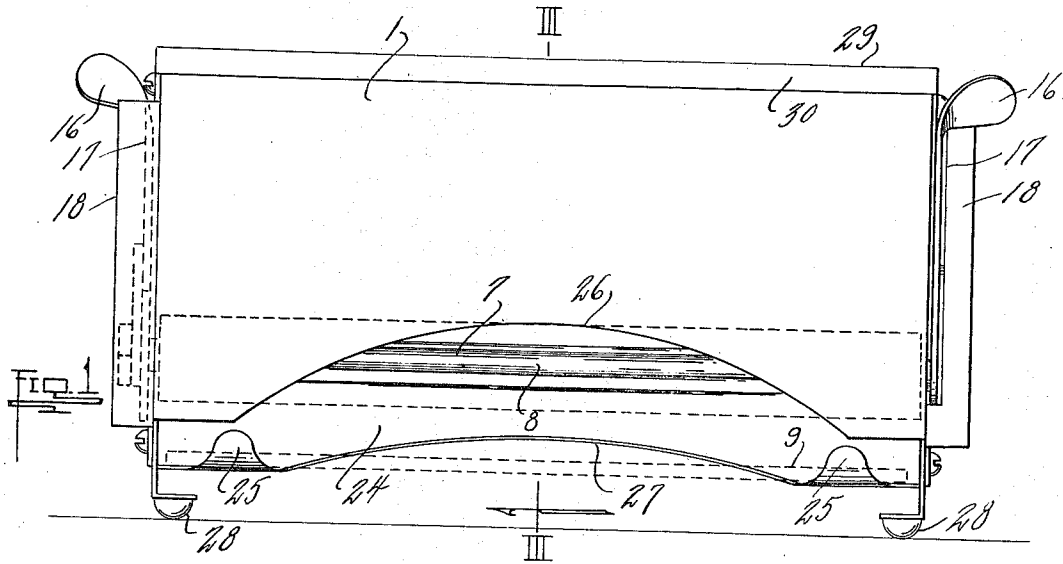
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DISPENSER

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DISPENSER

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Serial No. 394,883

1 Claim. (Cl. 312—84)

This invention relates to trip controlled delivery apparatus.

This invention has utility when incorporated in vending equipment especially for limited or single element delivery of so-called straws or paper tubes for suction removal of beverages from containers as at soda fountains.

Referring to the drawing:

Fig. 1 is a side elevation of an embodiment of the device for dispensing soda straws;

Fig. 2 is a view of the apparatus from the left of Fig. 1, parts being broken away;

Fig. 3 is a section on the line III—III, Fig. 1;

Fig. 4 is a section on the line IV—IV, Fig. 3; and

Fig. 5 is a detail view, on an enlarged scale, showing the actuator as shifted from inoperative position in Fig. 2, to operative position.

The apparatus herein disclosed embodies a structure having parallel side walls 1, 2, with connecting ends 3, 4. From these side walls 1, 2, and extending between the ends 3, 4, are downwardly inclined bottom sections 5, which as inclined toward each other, leave intermediate slot 6 in which is disposed roll 7 having fluted seats 8 as a selector, with such seats 8 of a dimension to permit ready rolling therinto of tubes or straws 9.

This fluted roll 7 has terminal trunnions 10 extending through the ends 3, 4, as bearings and protruding therebeyond to have fixed therewith ratchet wheel 11 and loosely mounted thereon outwardly therefrom primary arm 12 retained in position therewith by nut 13. The primary arm 12 has pivot pin 14 mounting secondary arm 15 terminating in handle 16 protruding from opening 17 in auxiliary housing 18 along the respective ends 3, 4. Within this housing 18 is tension spring 19 between the secondary arm 15 and the end 3, tending in idle position to draw the secondary arm 15 and likewise the primary arm 12 against stop 20 and to swing pin 21 carried by the secondary arm 15 into the bottom of notch 22 of the primary arm 12.

In operation, depression of handle 16 counter-clockwise from the left of Fig. 2 will in its first movement swing the secondary arm 15 upon pivot pin 14 as a fulcrum thus throwing pawl 23 into engagement with a tooth of the ratchet wheel 11 fast by key 13 with the roll 7. Further movement against the resistance of spring 19 will rock this roll 7 sufficiently to carry a tube 9 from within the hopper of the housing past an inclined bottom portion 5, so that one of these tubes may roll from a fluted seat 8 along incline 24 to

rest at fingers 25 at clearance 26, 27, in the sides 1, which incline 24 allows the operator to readily remove the single straw as thus delivered.

At the opposite end of this housing, similar operation may be given the other handle 16, which means an opposite direction of oscillation for the roll 7 in delivery to the opposite incline 24 a single straw 9. This opposite actuation is permitted, for in the recovery of the handle 18 after depression, the spring 19 so rocks the secondary arm 15 as to the primary arm 12 that the pawl 23 is clear of the ratchet 11.

This housing structure as to the hopper has extensions from the ends 3, 4, providing feet 28 so that the device may be placed say upon a counter or show case. As the device is charged with a quantity of the articles to be vended as straws, the open top hopper or housing proper may be closed by cover piece 29 having marginal flange portions 30 as a slip assembly over this primary housing.

What is claimed and it is desired to secure by Letters Patent is:

A hopper, a longitudinally fluted rotary valve providing an outlet for the hopper, step actuating means for the valve exterior of the hopper as to which the valve is movable, said step actuating means including an arm coaxial with the valve and having a pivot pin and an adjacent notch at its free end, a handle anchored with the arm at said pivot pin, said handle having a projection adjacent the pivot pin, a spring between the hopper and handle rocking the handle on its pivot to seat the projection in the arm notch, a stop fixed with the hopper against which the arm is held by said handle spring cooperating through said projection and notch, and an additional stop toward which the handle is movable against the resistance of said spring to impart a step movement for the valve in shifting a fluting of the valve for measuring a discharge from the hopper, said handle on release being re-set by the spring with the arm independently of the recover shifting of the valve.

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