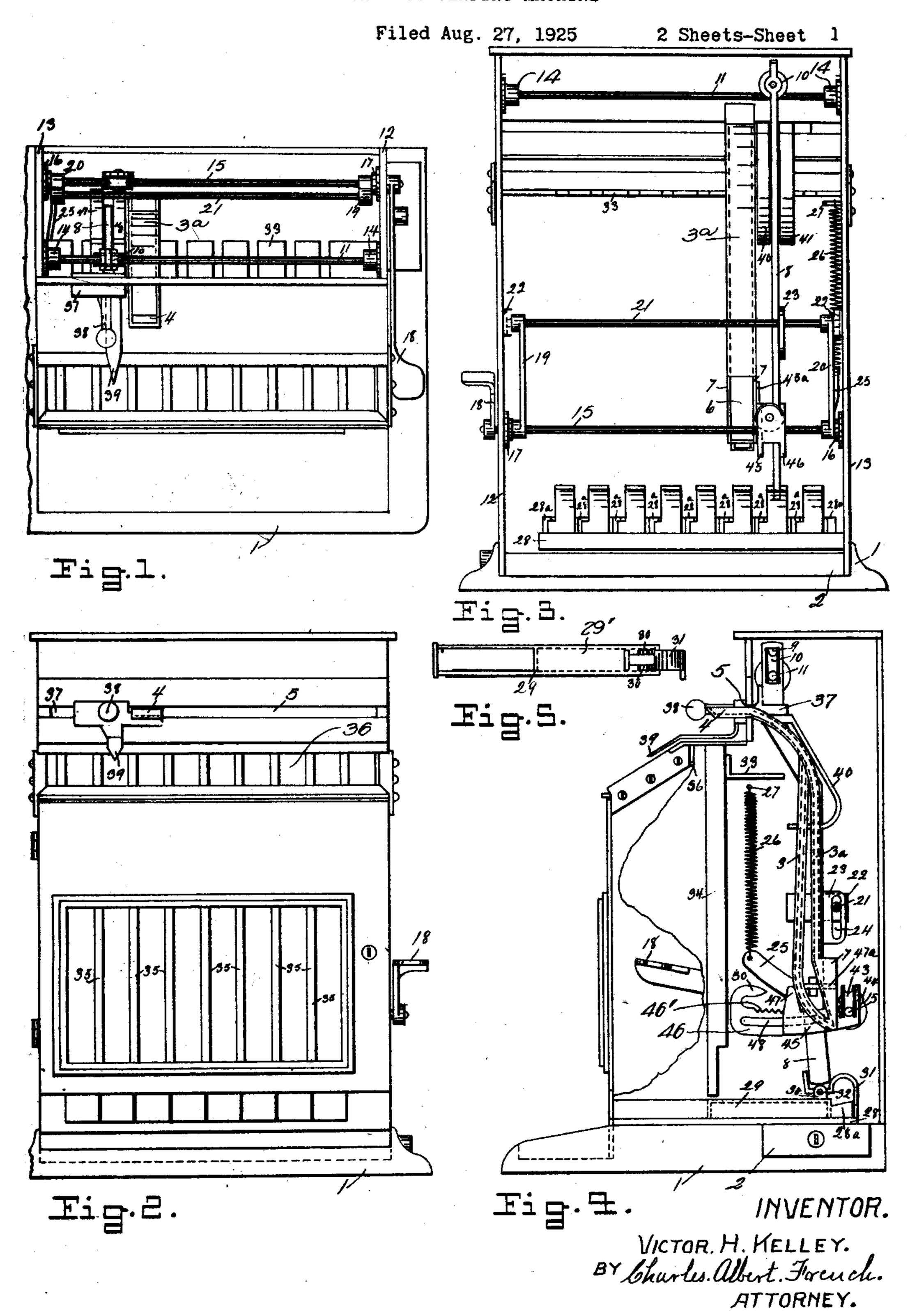
V. H. KELLEY

VARIETY VENDING MACHINE

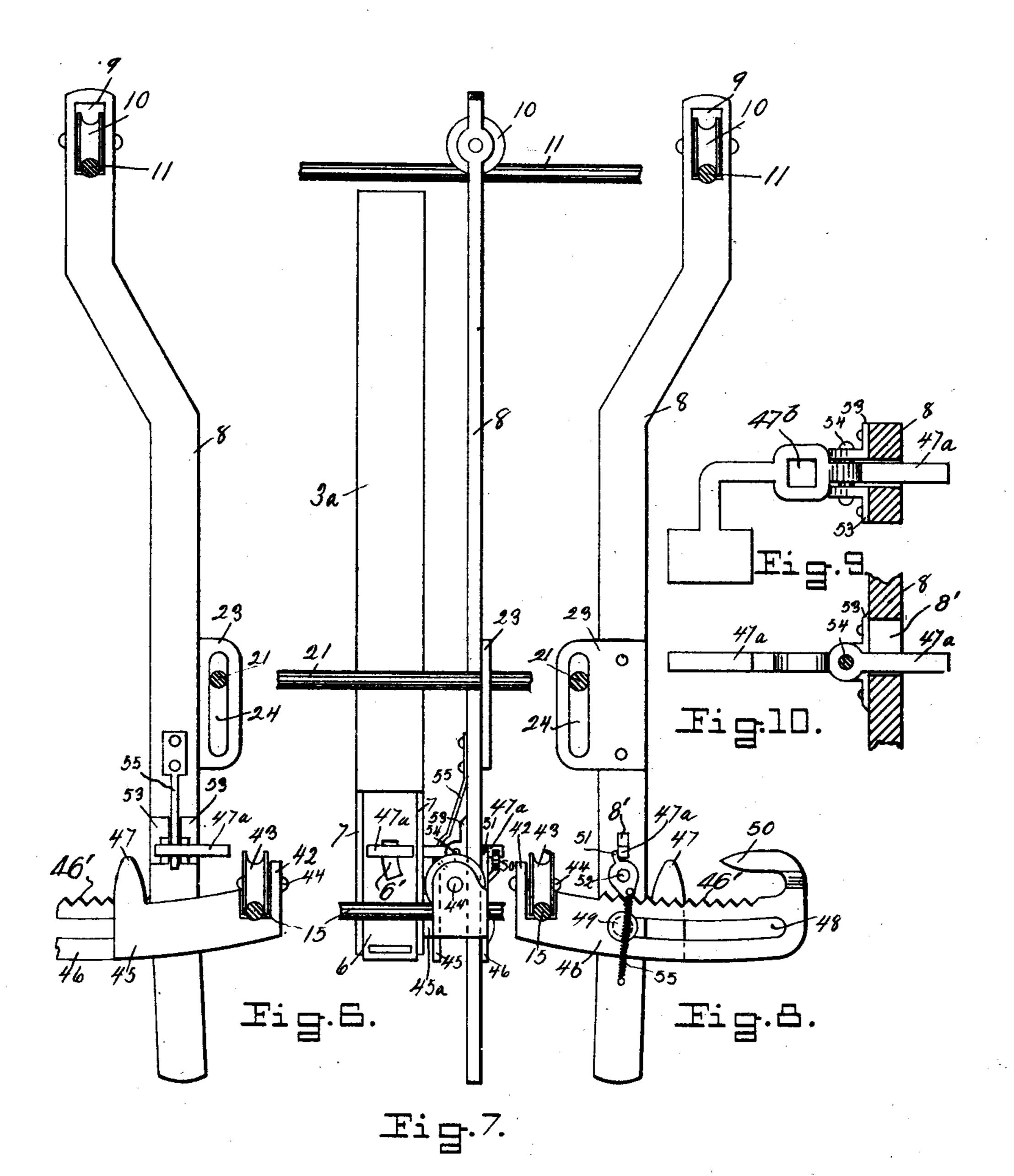


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VARIETY VENDING MACHINE

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VARIETY VENDING MACHINE.

Application filed August 27, 1925. Serial No. 52,931.

5 livered, one at a time, by a dispensing mecha- the base 1 is a bottom board 28, and spaced nism, which usually includes a coin-controlled slideways are formed on the top thereof by 10 net is divided by a greater or less number of drawers comprising a metal frame with side vertical partitions into a plurality of storage and end walls, a transverse partition under-15 means by which any one of the series of drawer behind the cabinet partition 34. On drawers may be opened.

pensing mechanism for machines of this type, 20 and to this end the invention consists in the novel construction and arrangement of parts hereinafter described and more particularly pointed out as to subject-matter and scope in

the appended claims.

thereof, is illustrated in the accompanying hereinafter described. drawings, in which—

with the top removed;

Fig. 3 is a rear elevation, with the back wall of the cabinet removed;

Fig. 4 is a side elevation with one side wall and a portion of the opposite side wall of the 35 cabinet removed to disclose interior parts; Fig. 5 is a top plan view of one of the slid-

able drawers and its beam coupling latch; Fig. 6 is a left side elevation of the de-

livery beam;

Fig. 7 is a rear elevation of the delivery

beam and coin chute;

Fig. 8 is a right side elevation of the delivery beam;

Fig. 9 is a top plan view of the coin trip

45 lever; and

Fig. 10 is an edge elevation of the coin

trip lever. The cabinet is a substantially rectangular 50 cast metal base 1, in the rear of which is a length of said beam so as to move the latter 55 cabinet is divided fore and aft by a transverse posed plate 33 formed with transverse slots partition 34 (Fig. 4), and the space lying

This invention relates to vending machines in front of the partition 34 is subdivided by of that type wherein packaged articles, such spaced vertical partitions 35 into a plurality as boxes of matches, packages of candy, chew- of bins for the articles to be dispensed, each ing gum, and the like, are stored and de- of said bins being open at its lower end. On 60 locking and releasing mechanism. More metal partition strips 28a directly underlying specifically, the present invention relates to the compartment partitions. In these slidethat class of such machines wherein the cabi- ways are disposed drawers 29, each of said 65 bins or compartments which may contain a lying the lower edge of the cabinet partition variety of merchandise, with a sliding drawer 34 when the drawer is closed, and a top plate underlying each compartment, and selective 29' (Fig. 5) covering the rear portion of the 70 the top plate adjacent to the rear end of the The object of the invention is to provide a drawer are a pair of lugs 30 between which simple, inexpensive and reliable selective dis- is mounted a latch 31 on a pivot pin 32. The tail end of the latch is adapted to hook back 75 of the partition strips 28° so as to prevent the drawer from being pried forward when not intended to be actuated, and the latch is also so formed as to provide coupling engagement with the lower end of a delivery beam through 80 25 My invention, in one practical embodiment which the drawer is released and actuated, as

In the upper portion of the cabinet between Fig. 1 is a top plan view of the cabinet, the side walls of the latter is mounted a trolley rail 11, the ends of which are conveniently 85 Fig. 2 is a front elevation of the cabinet; mounted in socket members 14 attached to the side walls 12 and 13. From this trolley rail is suspended a delivery beam 8, best shown in detail in Figs. 6, 7 and 8, by means of a trolley wheel 10 journaled in a slot 9 in the 20 upper end of the beam 8 and traveling on the rail 11. The beam 8 is shifted along the rail 11 so as to bring it into the vertical plane of any of the several bins and their drawers by means of a sliding block 37 mounted in a 95 slot 5 in the front wall of the cabinet and equipped with a forwardly projecting handle 38 and a forwardly and downwardly extending pointer 39 overlying the upper ends of the bins, which latter are preferably covered 100 by an inclined transparent plate 36. On the rear portion of the block 37 are a pair of rearwardly and downwardly extending arms 40 and 41 between which the beam 8 lies, these upright sheet-metal structure mounted on a arms being adapted to engage a considerable 105 channel accommodating a sliding cash along the trolley rail 11 without any apprecidrawer 2 employed when the machine is able tilting or canting. Extending from side equipped with coin-controlled locking and to side of the cabinet and attached to the back releasing mechanism. The interior of the of the partition wall 34 is a horizontally dis- 110 that are located in vertical alignment with

the latches 31, which insures the engagement struck from the axis of the trolley rail 11 as of the lower end of the beam with a latch its center, in which slot travels a headed stud distance to move the corresponding drawer and guiding the latter. The side plate 45 is

5 outwardly.

end in a bearing 16 attached to the side 13 of and the plate 46 is also formed at its inner the cabinet, said rock shaft extending across end with a horizontal pointed finger 50 which the cabinet parallel with the rod 11 and ex- also serves as a cam. The upper edge of the 10 tending through a collar 17 and the opposite plate 46 is provided with a row of teeth 46' 75 side 12 of the cabinet for the attachment which cooperate with the nose of a pawl 51 thereto of an operating arm or handle 18. that is pivoted on the side of the beam 8 by Fast on the rock shaft 15 adjacent to the a pivot pin 52. Just above the pawl the beam bearing 16 and collar 17 are a pair of up- 8 is formed with a vertical slot 8', and adja-15 wardly-extending arms 19 and 20 (Fig. 3), cent to the slot on the opposite side of the 80 the upper ends of which are connected by a beam from the pawl bracket plate 53 are rod 21. Stops 22 (Fig. 4) attached to the secured that support a pivot pin 54 on which side walls of the cabinet limit the backward is mounted a coin trip lever 47a. One arm swing of the arms 19 and 20. A plate 23 of said lever extends through the slot 8' to 20 formed with a vertical slot 24 is secured to a position to co-operate with the tail of the 85 the side of the beam 8, and the rod 21 extends pawl 51. The other arm of the lever is bent through said slot, whereby depression of the at a right angle and extends through an arcuarm or handle 18 through the rock shaft 15, ate slot 6' (Fig. 7) in the delivery plate 6 of 25 swings the beam 8 forwardly. Attached to in a head portion adapted to receive the im- 90 the arm 20, or otherwise fast on the rock shaft pact of the coin. The last-mentioned arm of curved upwardly as shown in Figure 4, to 9) to receive the lower bent end of a spring the free end of which a pull spring 26 is at-latch 55 that is attached at its upper end to 30 tached at its lower end, the upper end of said the side of the beam 8, and has for its func- 95 tion to raise the operating arm 18 and restore In Figs. 6, 7 and 8 the beam 8 is shown as 35 the moving parts to normal positions.

scribed is, in practice, preferably equipped modity drawers, as shown in Fig. 4. A propwith a coin-controlled locking and releasing er coin, such as a nickel, deposited in the mechanism for the swinging beam 8, this chute 3ª strikes and depresses the head of the

lowing parts.

cle 4 which extends through the slot 5 and pressed, the beam 8 is free to swing forwardregisters with the upper end of a depending ly, the pawl 51, the nose of which is normalcoin chute 3a, which is a flat tube of sufficient ly held engaged with the teeth 46' by a pull 110 diameter to pass a nickel coin and is formed spring 55, swinging on its pivot to the reverse at its lower end with a delivery plate 6 (Fig. position in which its nose trails over the teeth 7) having side flanges 7 to guide the coin to the extreme lower end of the chute and into Fig. 8, the cam 47 returns the trip lever 47ª the cash drawer 2. 3 designates a penny chute, the upper end of which is connected to and registers with the nickel chute 3a, and the lower end of which merges into the lower end of the nickel chute below the trip mechanism of the latter. The object of the penny chute 3 is, of course, to dispose of coins used in an attempt to cheat the machine. Attached to the lower end of the coin chutes as by means of the trailing position shown in Fig. 8, the cam a plate 45° (Fig. 7) is a shackle comprising finger 47 again actuates the trip lever to the 60 a front plate 42 and parallel side plates 45 and 46 between which the beam 8 is adapted not be again actuated until another coin has to swing. In the end plate 42 is a stud 44 on been deposited to release the trip mechanism. which a sheave 43 is journaled; said sheave

before it can be swung forwardly a sufficient 49 attached to the beam 8 for loosely holding formed with an upstanding pointed finger 70 A rock shaft 15 is rotatably mounted at one 47 serving as a cam as hereinafter described, arms 19 and 20, rod 21, and slotted plate 23, the coin chute 3a, and preferably terminates 15, is a forwardly-extending arm 25 slightly—the lever 47° is formed with a slot 47° (Fig. spring being secured to the side 13 of the tion to hold the lever 47° in horizontal posicabinet by a pin 27. The function of the tion and in locking engagement with the spring 26 is to rock the shaft 15 in a directail of the pawl 51, as shown in Figs. 7 and 8.

at the limit of its rearward swing, which cor- 100 The dispensing mechanism hereinabove de-responds to the closed position of the commechanism preferably comprising the fol-trip lever 47a, raising the opposite arm of the 105 lever out of locking engagement with the The sliding block 37 carries a coin recepta-pawl. The operating arm 18 being then de-46'. As the beam 8 swings to the right in to horizontal position, which locks the pawl 115 51 in its trailing position; but at the end of the swing the pawl is again unlocked through engagement of the cam finger 50 with the other arm of the trip lever so as to permit the idle return movement of the beam 8 under 120 the pull of the spring 26; and during such idle return movement, while the pawl is in pawl locking position, so that the beam can- 125

No claim is herein made to the coin-conbeing adapted to travel on the shaft 15. The trolled locking and releasing mechanism last 65 side plate 46 is formed with an arcuate slot 48 above described, but the principal features 130 1,683,251

thereof form the subject-matter of an earlier application filed by me on the 17th day of August, 1925 under Serial No. 50,854.

I claim—

derlying the respective bins, and drawer-ac- hande on said rock shaft. 10 tuating and locking mechanism comprising a 15 drawers normally locking the latter closed, tuating mechanism comprising a horizontal 45 lower end of said beam when the latter is wheel on said rail, means for shifting said moved into register therewith, and means for beam along said rail, means on said drawers 20 swinging said beam in the direction of move- adapted for coupling engagement with the 50 ment of said drawers.

²⁵ plurality of storage bins, sliding drawers un-said rock shaft, a rod mounted in said arms 55 derlying the respective bins, and drawer-actrolley rail in the upper portion of said cabinet, a beam suspended by a trolley wheel on said rail, means for shifting said beam along

said rail, means on said drawers adapted for coupling engagement with the lower end of said beam when the latter is moved into vertical alignment with said drawers, a rock 1. In a vending machine of the type de-shaft journaled in said cabinet parallel with 35 scribed, the combination of a cabinet having said trolley rail, beam actuating mechanism vertical partitions dividing the same into a carried by said rock shaft having a sliding plurality of storage bins, sliding drawers un- connection with said beam, and an operating

3. In a vending machine of the type de- 40 horizontal trolley rail in the upper portion scribed, the combination of a cabinet having of said cabinet, a beam suspended by a trol-vertical partitions dividing the same into a ey wheel on said rail, means for shifting said plurality of storage bins, sliding drawers unbeam along said rail, pivoted latches on said derlying the respective bins, and drawer-acsaid latches having latch-actuating portions trolley rail in the upper portion of said cabiadapted for coupling engagement with the net, a slotted beam suspended by a trolley lower end of said beam when the latter is 2. In a vending machine of the type de- moved into vertical alignment with said scribed, the combination of a cabinet having drawers, a rock shaft journaled in said cabivertical partitions dividing the same into a net parallel with said trolley rail, arms on and extending through the slot of said beam, tuating mechanism comprising a horizontal and an operating handle on said rock shaft. In testimony whereof I affix my signature.

VICTOR H. KELLEY.