

Diego Gonzalez

1) Family number: 18253374 (GB255228A)

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Title: Improvements in or connected with automatic prepayment apparatus

Abstract: Delivery of articles stored in compartments of sliding receptacles; coin action, mechanical-connection.-Relates to apparatus of the kind in which goods are contained in compartments 5 of a lift 3 placed behind a glazed panel and are delivered, after the insertion of a coin, by the lift descending through the space of one compartment at a time to bring the compartment opposite a delivery opening. According to the invention, a coin inserted through a shoot 22, Fig. 2, is held between two keepers 20, 13 controlled by springs 21, 16 and pivoted at 19, 14 respectively, the pivot 14 of the keeper 13 being carried by pivoted piece 9 which carries a pawl or tooth 8 adapted to engage a rack 24 on the lift 3. By pushing a button 18 the keeper 20 is moved and transmits the thrust through the coin to the piece 9 which is moved against the action of a spring 11 to release the rack 24. Coin-discharging mechanism. As the lift descends the next tooth of the rack 24 by engaging the pawl 8 moves the piece 9 further away from its locking position. This movement carries the keeper 13 away from the coin, which drops, and the spring 11 immediately moves the pawl into engagement again with the rack.

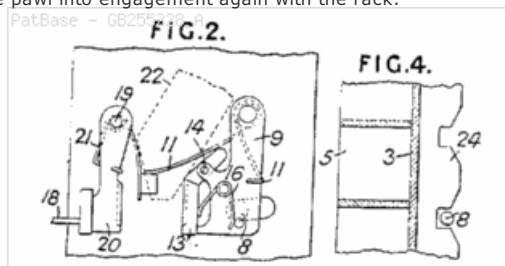
Classifications:

International (IPC 8-9): G07F11/60 (Advanced/Invention);
G07F11/46 (Core/Invention)

International (IPC 1-7): G07F11/60

CPC: G07F11/60

European: G07F11/60



Family:

Publication number	Publication date	Application number	Application date
GB255228 A	19260722	GB19250017683	19250710

Priority:

GB19250017683 19250710

Probable Assignee: JENS PETER RASMUSSEN

Assignee(s): (std) JENS PETER RASMUSSEN

2) Family number: 18878261 (FR664510A)

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Title: INSTRUMENT A MUSIQUE PHONOGRAPHIQUE, FONCTIONNANT PAR L'INTRODUCTION D'UNE PIECE DE MONNAIE
INSTRUMENT MUSIC PHONOGRAPHIC, OPERATED BY THE INTRODUCTION OF A COIN (Machine translation)

Abstract: Source: FR664510A [FR] [Source: Claim 1] RESUME. L'invention comprend Un instrument a musique phonographique, fonctionnant par l'introduction d'une piece de monnaie et essentiellement caracterise par une plaque tournante horizontale; un rate lier fixe -dispose pour tenir, de champ, des disques enregistres, espaces horizontalement les uns des autres et situes dans des direc tions radiales par rapport a la plaque tour nante, et un bras selecteur capable d'osciller concentriquement a ladite plaque et portant des moyens pour saisir un disque dans le ratelier, le soulever de celui-ci, le tourner a plat dans une position horizontale, le déposer en position pour etre joue, sur la plaque tournante et le lacher, apres l'avoir ainsi pose, puis reprendre le disque apres qu'il a ete joue et le ramener, par une serie de mou vements inverses, au ratelier, cet instrument pouvant d'ailleurs etre caracterise, en outre, notamment par un ou plusieurs des points suivants a. Le bras selecteur recoit son mouvement d'oscillation d'un cylindre tournant, dans une rainure-came duquel travaille une oreille dont est muni ledit bras; b. Le dispositif qui fait osciller le bras selecteur pour l'amener dans des positions ou ii coincide avec les disques respectifs tenus dans le ratelier et controle par des moyens comprenant une pluralite de couloirs a pieces de monnaie correspondant auxdites positions, respectivement, et cooperant avec un tambour tournant portant des chevilles disposees en helice surluide maniere a corres pondre egalement aux positions en question; c. Chaque couloir a piece de monnaie comprend une partie fixe, disposee pour amener la piece au mecanisme actionne par elle pour amorcer le fonctionnement de l'ins trument, et une partie oscillante disposee pour retenir elastiquement la piece de mon naie pendant une partie (normalement limitee par un arret) de son mouvement d'oscillation et laisser tomber ensuite cette piece dans la partie fixe du couloir au moment ou, la ren contre de la piece avec farret ayant ecarte celui-ci pour permettre a ladite partie oscil lante de continuer son mouvement d'oscilla tion, elle arrive a fin de course; d. Le bras acoustique portant l'aiguille est monte pour pouvoir tourner dans des direc tions transversales l'une a l'autre sous l'ac tion d'un tambour a deux rainures-cames relie audit bras par un systeme de bielles et de leviers coudes; e. L'aiguille est serree dans une douille du bras acoustique par une vis qui est capable d'atre actionnee par le mouvement d'oscilla tion du bras dans un sens pour desserrer l'aiguille et, a la fin de ce mouvement, serrer une autre aiguille a sa place; f. Le changement d'aiguille est effectuee au tomatiquement, a des intervalles determines, par un dispositif qui, les prenant une a une a un magasin dans des compartiments duquel elles sont placees horizontalement, tourne, la pointe en bas, l'aiguille ainsi saisie et l'in troduit ensuite dans la douille du bras acous-tique lorsque celui-ci se trouve dans une position extreme d'oscillation. **Machine translation:** [Source: Claim 1] [0003]. The invention includes an instrument has phonographic music, operated by the introduction of a coin and essentially characterized by a horizontal hub; a rate fixed link -arranged to hold, field, recorded discs spaced horizontally to each other and located in the radial direction with respect to the plate nante tower, and a selector arm able to oscillate concentric with said plate and bearing means to enter a disc into the rack, the lift thereof, turn flat in a horizontal position, the deposit into position to be played on the hub and the release, after thus poses, then take the disc after it has been played and bring it, by a series Slack samples, at rack, this instrument that could reverse moreover be characterized, in addition, in particular by one or more of the following a. The Arm selector receives its movement of oscillation of a rotating cylinder, in a groove-cam which works an ear which is equipped with said arm; b. The device that swings the arm selector to bring in positions or ii coincides with the respective disks are held in the rack and controlled by means comprising a plurality of corridors pieces of money corresponding with said positions, respectively, and operably connected to a rotating drum bearing pins arranged so as to respond to the egalement surluide helix component in question; c. each lane to positions coin comprises a stationary portion disposed to bring the workpiece as it to initiate the mechanism actuated by operation of the

instrument, and a oscillating part disposed to retain recovering the part of my naie during part (normally limited by a stop) its movement of oscillation and drop Then this piece in the fixed part of the corridor at the time, the ren against the workpiece with farret having spaced therefrom to allow said part oscil lante to continue movement of oscilla tion, it arrives at the end of travel; d. The acoustic arm bearing the needle is mounted so as to be able to rotate in the direction transverse to one another under the action of a drum has two grooves-cams coupled to said arm by a system for connecting rods and levers bends; e. the needle is clamped in a socket of the acoustic arm by a screw that is capable of oscilla tre actuated by the movement of tion of the arm in a direction to loosen the needle and, at the end of this movement, tighten another needle has its place; f. The change is performed at tomatiquement needle, at intervals determined by a device which, taking them to a has a store in compartments which they are placed horizontally, rotated, apex downwards, the needle and seizure and the troduit in then in the dubrasacous socket- composition when the latter is in a position extreme of oscillation.

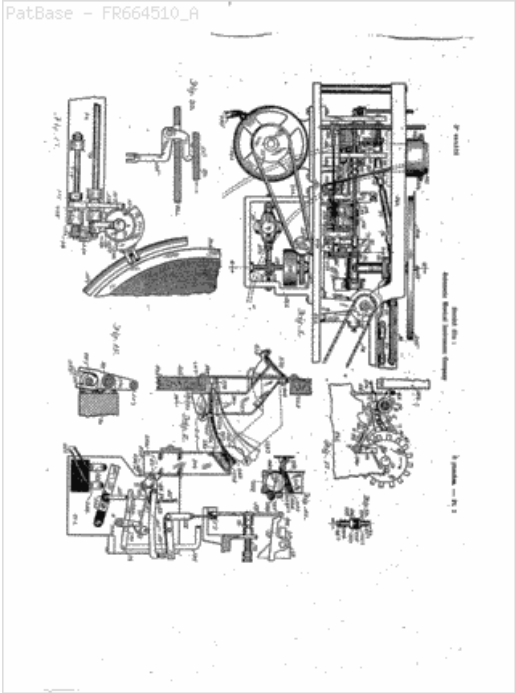
Classifications:

International (IPC 8-9): G07F17/30 (Advanced/Invention);
G07F17/00 (Core/Invention)

International (IPC 1-7): G07F17/30

CPC: G07F17/305

European: G07F17/30B



Family:

Publication number	Publication date	Application number	Application date
FR664510 A	19290904		19281123

Priority:

19281123

Probable Assignee: AUTOMATIC MUSICAL INSTR CO

Assignee(s): (std): AUTOMATIC MUSICAL INSTR CO ; AUTOMATIC MUSICAL INSTR COMPAN

Assignee(s): AUTOMATIC MUSICAL INSTRUMENT CO ; AUTOMATIC MUSICAL INSTRUMENT COMPANY

3) Family number: 19470841 (GB710886A)

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Title: Coin-freed drink vending machine

Abstract: 710,886. Coin freed drink dispensing apparatus. RICHTER, R. L. Sept. 27, 1951, No. 22568/51. Class 27 Casings. Preventing access to mechanism. General arrangement. Raising a shutter 9 (Fig. 2) to enable a paper cup 22 filled with liquid to be removed from a receiver 78 moves a cover 47 (shown in plan in Fig. 3) to close the open top of the receiver to prevent access to the interior of the machine: The shutter 9, which has a window of safety glass, carries a pair of rods 42 guided in apertures in members 39a, 46 (Fig. 2) on the inside of the door of the cabinet and jointed at their upper ends by a bar 43 which is connected to a hydraulic damper 45. A plate 55 (Figs. 7 and 8) moving with the shutter is formed with a cam slot 54 engaged by the end of a lever 51 pivoted at 52 to the member 39a and formed with a slot 50 which engages a pin 49 on the cover 47 to turn it about its pivot 48 on the member 39a as the shutter is raised. The receiver 78 terminates at its lower end in a funnel-shaped member 79 for receiving the paper cup and the edges 80 of its side walls fit closely against a frame 39 surrounding the delivery aperture when the door 2 of the machine is shut. The receiver is carried by a plate 69 (Fig. 5) guided by rollers 67, 72 on a frame 60 formed with flanges 65, 66 so that the receiver may move from the position shown in Fig. 2, in which it receives a paper cup from a magazine 32, to beneath the nozzle of a device 20 dispensing liquid from a tank 19, and back to the position shown so that the filled cup may be removed. A plate 81 moves with the receiver to close the delivery aperture when the receiver is in the filling position. The filling of the cup may be watched through a window 10. A shoot member 38 (Figs. 4 and 5) between the cup magazine and the normal position of the receiver further prevents unauthorised access to the mechanism. The tank 19 may be removed from its housing 17 through a door 18 when - a portion 16a of the floor 16 of the housing is removed to permit the passage of the dispensing device 20. Coin action, mechanical connection. Actuating mechanism. An inserted coin which successfully passes a coin tester 188 (Fig. 4) falls down a shoot 191 to rest on a screw 194 which is carried by a member 195 hinged at its upper end to the shoot and projects through an aperture in the wall of the shoot. In this position the coin transmits the motion of. a spring biased push button 14 to a lever 202 which may thus be swung about its pivot 202a to clear a projection 203 on a lever 204 which is consequently turned about its pivot 206 by a spring 207 (Fig. 3). A projection 208 on the lower end of the lever 204 depresses a bolt 139 (Fig. 4), sliding in an arm 136 fast with a shaft 128, into the path of a latch 132 on a handle 12 free on the shaft 128 and accessible from outside the machine. The bolt 139 is locked in this position against the bias of a spring 140 by a lever 143 biased about a pivot 142 on the arm 136 by a spring 145 so that its free end engages a slot in the bolt. The handle 12 is thus coupled to turn the arm 136 and the shaft 128 until a pawl 147 (Figs. 5 and 6) engaging a full-stroke ratchet 146 reverses at the end of a full stroke and strikes a pin 144 on the lever 143 to cause the latter to release the bolt 139. During the movement of the arm 136 a cam surface 152 (Figs. 5 and 6) on it turns a latch 153 (Fig. 6), which normally rests on the frame 60, about its pivot 154a so that a pin 82 on the plate 69 may pass beneath a lug 159 on the latch when the plate and receiver 78 are pushed to the right in Fig. 6 (which is a rear elevation) by engagement of an abutment 137 (Fig. 3) with a member 138 on the receiver. During this movement of the plate 69 (to the left in Fig. 3 which is a front elevation) a cam surface 218 on the plate engages a pin 217 on the lever 204 to restore it to its initial position in which it is again latched by the lever 202. The plate 69 is held in its displaced position, against the bias of a weight 77 (Fig. 3) acting through a cable 74, by engagement of the tail 160 (Fig. 6) of the latch 153 with a further pin 83 on the plate. An arm 150 (Fig. 4) fast with the same shaft 128 as the arm

136 is formed with a fork 151 which engages a pin 95 (Fig. 3) on a rack 92 which thus moves with the plate 69. On reaching its extreme position the rack 92, which controls the liquid dispensing device 20 (see Delivery of liquids below) is immediately returned at a speed determined by a vane 127 (Fig. 5) rotated through gearing and a pawl and ratchet from the rack by a spring 100 (Fig. 3) acting through a cable 97, and carries the arm 150, shaft 128 and arm 136 with it. Towards the end of this return movement the cam surface 152 (Fig. 6) on the arm 136 releases the latch 153 to permit the weight 77 to return the plate 69 at a speed limited by a pneumatic damper 88. A leaf spring 161 (Fig. 5) bearing on the receiver 78 assists the return motion initially. The latch 153 automatically rides under the pin 82 to relock the plate at the end of the return motion. A projection 162 (Fig. 4) on the plate 69 is adapted to engage a pin 94 (Fig. 6) on the rack 92 to ensure that the plate cannot return before the rack. The latch 132 on the handle 12 can yield against a spring in one direction lest the bolt 139 be depressed to its operative position with the handle away from its normal position. ' Setting mechanism for different numbers of coins. The screw 194 (Fig. 4) may be screwed in an alternative hole 196 in the member 195 so that only the second of two inserted coins is positioned to connect the push button 14 to the lever 202. Coin discharging mechanism. When the lever 204 (Fig. 3) is released for movement by the spring 207 a projection 209 on it turns the member 195 about its hinge to withdraw the screw 194 (Fig. 4) from the shoot 191 so that the coin or coins resting on it pass to a coin box (Fig. 2). Delivery of liquids. The liquid dispensing device 20 (Fig. 2) is of the type which, when an actuating member 21 is raised, delivers the contents of a measuring chamber which is recharged when the actuating member is lowered. The actuating member is raised when the receiver 78 is beneath the device 20 by adjustable screws 167 (Fig. 3) carried on the forked ends of a lever 166 fast with a shaft 165 which is normally locked by the engagement of a pin 182 (Fig. 6) on an arm 183 fast on the shaft 165 with the end 181 of a latch 179 biased about its pivot 180 on to a stop 179b by a spring 184. The latch 179 is moved to free the shaft 165 when the pin 94 on the rack 92 strikes it, and the shaft 165 is subsequently turned by a spring 174 connected between a pin 172 fast with the shaft and a lever 170 which is capable of a limited rotation relatively to the shaft and which is raised from a stop 175 by a cam 118 engaging a roller on the lever 170 and driven through a pin and slot connection by a sector 114 (see also Fig. 5) driven by an arbor in the gear train between the rack 92 and the air brake vane' 127. Drinking cups, delivering. The lever 204 (Fig. 3) is connected at 211 to reciprocate a slide 212 which delivers the bottom cup from the magazine 32. The cups are guided by rods 34 which may be removed to facilitate filling the magazine. Coin-slit closing devices. When the cup magazine is empty a follower weight 219 (Fig. 2) depresses a lever 220 pivoted on a pillar 221 against a spring 223 (Fig. 3) so that a link 222 pivoted to the lever 220 raises a sliding plate 224 to obscure the coin slit 187. Heating and cooling contents. An ice box or an electric heater may be disposed above the tank 19.

Classifications:

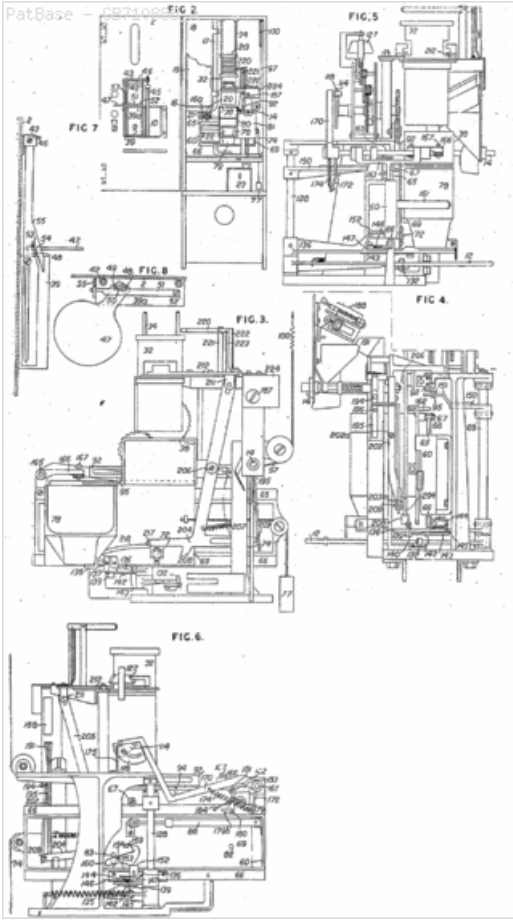
International (IPC 8-9): G07F13/10 (Advanced/Invention);

G07F13/10 (Core/Invention)

International (IPC 1-7): G07F13/02

CPC: G07F13/10

European: G07F13/10



Family:

Publication number	Publication date	Application number	Application date
GB710886 A	19540623	GB19510022568	19510927

Priority:

GB19510022568 19510927

Probable Assignee:

ROBERT LAZAR RICHTER

Assignee(s): (std):

ROBERT LAZAR RICHTER

4) Family number: 19498202 (GB788511A)

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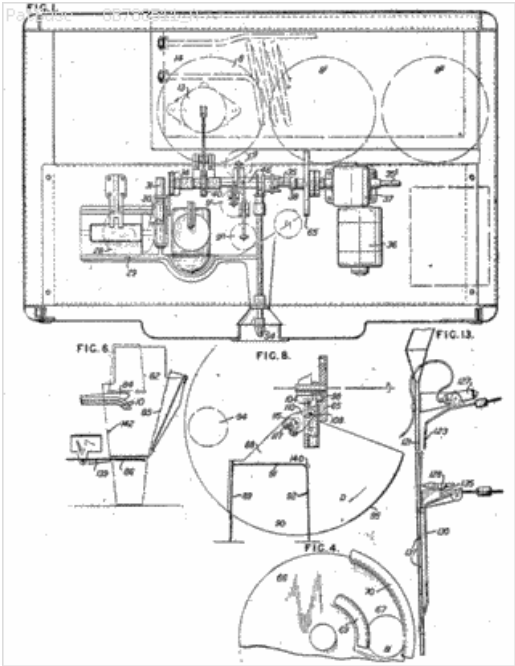
Title: Improvements in drink dispensing machines

Abstract: 788,511. Coin-freed apparatus. WESTERN MANUFACTURING (READING), Ltd. Nov. 28. 1955 [Nov. 29, 1954], No. 34565/54. Class 27 Cups stored mouth downwards in nested stacks in a rotatable magazine in a coinfreed drink dispensing machine are released one by one. as the magazine is stepped round, by means of a pair of tapered arcuate rails 69, 70 which engage between the rims of the lowermost and next above cups and the released cup falls to a funnel 82 where its rim engages an abutment 84 that forms a pivot round which the cup rotates through 180 degrees to an upright position before reaching a filling station. Drink dispensing. The machine is provided with three vessels 8 8¹ 8¹¹ holding different fruit cordials which are delivered by fixed-chamber metering devices 9, 9¹, 9¹¹ to separate outlet tubes 10 and with a refrigerated or

heated water tank 14 from which water is delivered by a pump 13. A bottle for injecting carbon dioxide into the water under delivery or a separate reservoir for carbonated water may also be provided and in the latter case a restrictor and diaphragm valve are included in the pipe line from the reservoir, the valve being operated by the pressure of the carbonated water to shut off the still water when carbonated water is being delivered. The water pump and metering devices are operated by cam, crank or eccentric means 40, 46 on a shaft 35 driven by a motor 36 and the means 46 is slidable on the shaft under the control of a selector knob 54 so as to operate selectively one of the three metering devices. Float-controlled switches may be provided to prevent further operation of the machine and to illuminate warning lamps when either the water or one or all of the cordials is exhausted. Cup delivery. The magazine is carried on a pivoted bracket so that it can be tilted to an inclined position to facilitate loading and is indexed by a pawl 30 which engages pins 29 on a disc 28 on the magazine spindle and is pivoted on a member 31 reciprocated by a crank disc 34 or similar means on the shaft 35. A fixed base plate 66 below the magazine carries the separator rails. 69, 70 above a tapering depression 67 ending in a delivery hole 81. The radial distance between the opposed surfaces of the rails is slightly less than the diameter of the cup where it is engaged by the rails so that in being separated from the stack and depressed by the rails it is lightly gripped and prevented from riding up between the rails until, above the hole 81, the radial distance increases to release the cup. The released cup turns about the abutment 84 and falls in an upright position to a filling position 94, Fig. 8. where it is supported under its rim by a counterweighted lever 86. To ensure that the cup does not jam in the funnel 82, a light spring 85 vibrates it as it falls and a lug 142 can engage and tilt a cup that happens to fall in a horizontal position. In a funnel of modified shape, the spring 85 and lug 142 are omitted and a upstanding stop on the abutment 84 forms a pivot point for the cup. A sector plate 88 is pivoted at 115 below the funnel 82 and has walls 89, 91, 92, forming a compartment 90 normally accessible from the outside of the machine, and an arcuate web 95 which prevents access when the plate is swung in the direction of the arrow D to bring its left-hand part and the compartment 90 directly under the lever 86; the wall 89 may engage an abutment 139 on the lever 86 to support the lever during filling of the cup or the lever may be supported by a stop movable by cam means on the shaft 35. When the plate is moved back to its initial position, the lever 86 swings down to deposit the cup on the plate and the cup is then brought round to the delivery position. The movement of the plate is controlled by a grooved face cam 65 fitted on the shaft 35 and engaged by a follower roller 98 on a sliding block 104 which has a pin 108 engaged in a slotted crank member 110. The crank member is rotatable on the spindle 115 of the plate 88 and a spring is fitted between the crank member and a lug 117 on the spindle so that if movement of the plate in the direction of the arrow D is obstructed, for example, by the customer's fingers, the movement can continue to a limited extent by compression of the spring. To prevent damage in the event of a positive obstruction of the plate movement, the drive to the shaft 35 is through a slipping clutch 38. The walls 91, 92 may be mounted on the plate 88 by means of a pivot 140 geared to the spindle 115 or block 104 so that they swing in the opposite direction to the plate and sweep the compartment 90 clear of any obstructive objects such as a discarded cup. Coin action. An inserted coin falling down a duct 121 pivots a counterweighted lever 123 to close a mercury switch 127 in the circuit of the shaft motor 36 and the lever is held in this position by a pawl 128 engaging a trigger 135 on a second lever 130. Further fall of the coin in the duct is delayed by staggered vanes 137 which divert it from side to side of the duct but, after sufficient time to allow cam means on the shaft 35¹ of a gearbox 37 to close a second switch in parallel with the mercury switch, the coin strikes the lower end of the lever 130 and releases the trigger 135. After one revolution of the shaft 35, the cam means on the shaft 35 opens the second switch and stops the motor 36.

Classifications:

International (IPC 8-9): G07F13/10 (Advanced/Invention);
G07F13/10 (Core/Invention)
International (IPC 1-7): G07F13/02
CPC: G07F13/10
European: G07F13/10



member 12, which carries a pointer 15 and is projected upwards by striking a handle 19 to operate a lever 17 and plunger 16, cushioning pads 20 being provided. The prize, which may take the form of coins used to release the apparatus, is carried in a container 28, one such container being provided for each winning position. Each container comprises an inclined pivoted tray 281 with transparent side walls, and by means of a pin 35 and cam slot 34 the movement of the lever 25 is caused to release and rock the container clear of the casing 282 so that the prize is discharged into a bowl 37. To prevent fraudulent operation by bringing the member 12 down tooth by tooth until it reaches a tooth 24, the pawl 22 is pivoted at 38 and controlled by a spring 40 and a detent 39. When the pawl 22 is to be released from the rack, the detent 39 is withdrawn by moving a plate 41 to engage a roller 42 on the detent, whereupon the part 12 falls under its own weight, the pawl 22 being then rocked by a stop 44 and the detent 39 re-set. Fig. 6 shows apparatus for delivering a special prize, constituted by coins collected over a number of operations of the apparatus. A container 45 pivoted at 46 is weighted at its lower end 47 so that when a predetermined number of coins has been collected it becomes unstable and must be retained in its upright position by a latch 51, 49. The container when sufficiently loaded overcomes a pivoted counterweight and falls to a lower position, and an electric signal is given to indicate that this prize is now available for the next successful operation of the machine. The vertical movement of a bar 63 actuated by the lever 25 is used to move a detent 69 so as to engage the latch 51 and permit the container 45 to discharge into a guide 72 and bowl 73. To avoid shock when the part 12 returns to its lowermost position, an extension 118 on the part 12 carries a roller 119 which bears on a hinged bar 120 engaging in turn an arm 122 secured to a bellows 123. Coin action, mechanical-connection; diverting coins periodically.-Figs. 7-10 show the mechanism associated with insertion and distribution of the coins. To operate the machine a coin is inserted at a slot 741, and when it reaches a plunger 76, a handle 83 is turned. This causes a cam 89 to lift the plunger 76 so that the coin above it engages a member 79, thus lifting parts 80, 81, 82, and releasing a projection 86 on a disc 85, allowing further movement of the handle shaft 84 to bring a cam 91 into engagement with a bar 78 which releases the coin from the lower end of slot 77 and permits it to drop into a distributing container 92. Mechanism is also provided whereby when the setting-handle 83 is turned, spring plates 101, Fig. 3, are lifted to re-set any tray 30 which has discharged its contents; and other parts are simultaneously re-set in readiness for the next operation. The distributor 92 has a radial rib 108 broadening downwards in spiral form to provide a sloping path for the coins to an outlet opening 109. It is rotated by the handle 83 over a plate 113 having a series of apertures which distribute the coins to the various containers, including the special container 45, and to a till 125 which takes a proportion not used for prizes.

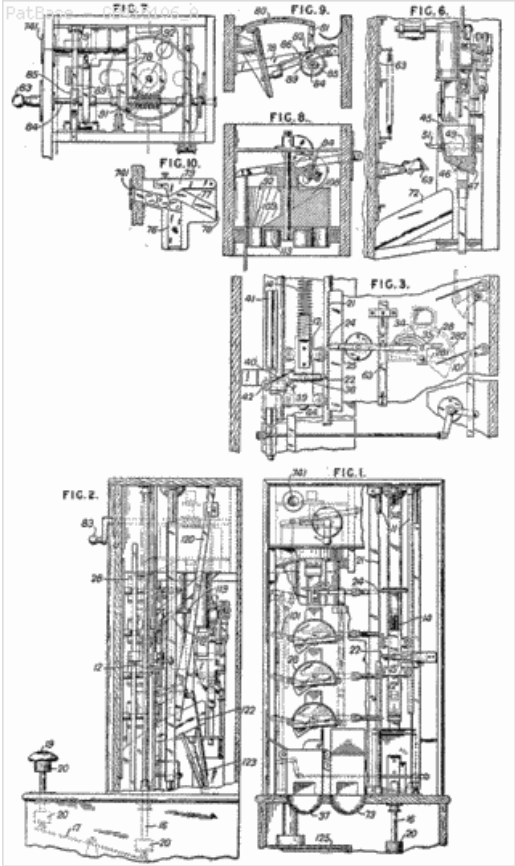
Classifications:

International (IPC 8-9): G07F17/32 (Advanced/Invention);
G07F17/32 (Core/Invention)

International (IPC 1-7): G07F17/38

CPC: G07F17/32 G07F17/3295

European: G07F17/32 G07F17/32P8



Family:

Publication number	Publication date	Application number	Application date
GB415106 A	19340817	GB19330004994	19330217

Priority:

GB19330004994 19330217

Probable Assignee: WALLACE ATHERTON MCCURD

Assignee(s): (std): WALLACE ATHERTON MCCURD

6) Family number: 20161957 (GB741968A)

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Title: Improvements in coin-free vending machines

Abstract: 741,968. Coin-free vending apparatus. SKILLMAN and CO. PTY., Ltd., T. S. Sept. 17, 1953 [Sept. 17, 1952], No. 25748/53. Class 27 Vending apparatus. - The lowermost article of a pile, or of each of several piles, of articles 13 is supported by fixed supports 70 and by a ledge 200 at the forward end of an aperture 48 in an ejector tray 22 and a pivoted weight-loaded pusher 56 is provided at the rear of the tray so that, when the tray is pulled forward by a handle 5 to which it is coupled by the inserted coin, the pusher, passing through a gap in the fixed supports 70, moves the lowermost article forward until it clears the supports 70 and topples through the aperture 48 into a delivery chute 20. At the end of the forward movement the counterweight 57 of the pusher is lifted by a stop member 85 so that the pusher is moved downwards to assist in toppling the article and so that, as the tray is returned by springs 23, the pusher is underneath the supports 70 out of contact with the article pile. When there are two piles of articles and corresponding pairs of apertures 48, pushers 56 and supports 70, a selector knob 9, Fig. 4, is linked to a vertical rotatable rod 72 which, by means of a cross-piece 86 moves or releases a spring-loaded bar 81 pivoted about a bush 82 so that one or other pusher is lowered under the corresponding

supports 70 and does not eject an article. An overcentre snap-action device 79 is connected to the rod 72 and the cross-piece 86 contacts the bar 81 only in the two final positions of the selector knob so that the simultaneous ejection of articles from both magazines is prevented. Alternatively, one or other pusher may be depressed by a pair of vertically-movable legs 106, 107, Fig. 14, connected with lost-motion to a two armed lever rotatable through a snap-action device from the selector knob. To prevent a change in selection after the coin is resting in its actuating position in a coinholder 36, a spring-loaded rod may be provided to engage the coin and co-operate with a cam on the rod 72 to prevent the selector being moved from one position to another. An "empty" and "full" indicator plate 18 for each magazine is linked to a weight-loaded lever 37 extending into the lower part of the magazine or, in a modification, Fig. 13, an indicator plate 136 for each magazine is hinged about a horizontal axis on the cabinet door 125 of the apparatus and is adjustably linked to an adjustable pin 140 bearing on the sloping end 133 of a vertically pivoted lever 127 having an extension reaching into the lower part of the magazine. To ensure a full outward movement of the ejector tray, the upper rim of the coin in the holder 36 co-operates with a rack 66, which may be spring-loaded. The articles in the magazine are held in position by flaps 19 and a cover strip 49 on the ejector tray closes the gap below a retaining strip 71 to prevent fraudulent extraction of articles. Coin action.-The coin, in its actuating position, rests in a holder 36 and extends into an inclined slot 60 in a bar 59 below the ejector tray and into an aligned slot 61 in the operating handle 5 so that the tray and handle, coupled to each other, can be pulled out until the coin falls through a slot 63 in an adjustable slide 62 into a coin box in a compartment 21; the ejection of the coin is assisted by the weight or loading of the full-movement rack 66. The coin is initially inserted through a slot in a panel having a push button for clearing stuck coins and, after passing a cointester 15, is deflected by a guide member 24 to the right-hand side of a coin shoot 16 divided by a partition 43¹. Two coin diverters, on weight-loaded levers 25, one on each side, extend into the shoot when the selector is in mid position and rejects coins to a return shoot 17 but, on selection, a plate 80 on the selector rod 72 withdraws one or other diverter to allow the coin either to fall down the right-hand division of the shoot or to be diverted into the left-hand division. A coin diverter 38 on the weight-loaded lever 37 of the "empty" magazine mechanism extends into each division if the selected magazine is empty and diverts the coin to the return shoot. An accepted coin falls into the lower part 31 of the shoot and into the holder 36 unless the holder is not in its correct position in which case it is held up by a stop member 34 on a weight-loaded lever until the holder is moved to its correct position to engage an extension of the lever and withdraw the stop. In a modified coin shoot 92, Fig. 11, the coin either falls down the left-hand division of the shoot or is diverted into the right-hand division by a diverter 97 on a lever 95, according as the diverter is moved into or withdrawn from the shoot by a pin 96 working in an inclined slot 99 in a bar 96 connected to the selector leg 117; in each division is a weight-loaded diverter lever 100 which, when a magazine is empty, is moved into the shoot by a lever 102 on the pivot rod of the lever 127 of the "empty" mechanism. In a further modified shoot 114, Fig. 14, having a single coin path, "empty" diverter levers 100 are further controlled by the selector mechanism, through a lever 112, so that the diverter lever which corresponds to an empty magazine is withdrawn from the shoot if a full magazine is selected. The lever 112, which is pivoted at 111 and connected to bars 106, 107 on the selector legs 116, 117 by pins 108, 109, presses, at its two end positions, against extensions 115 of the levers 100 and, intermediate the end positions, moves a diverter 113 into the coin path so that coins inserted during movement of the selector mechanism are ejected to the return shoot 17 through an aperture 105. The coupling between the handle and tray may be dependent on the insertion of two or more coins.

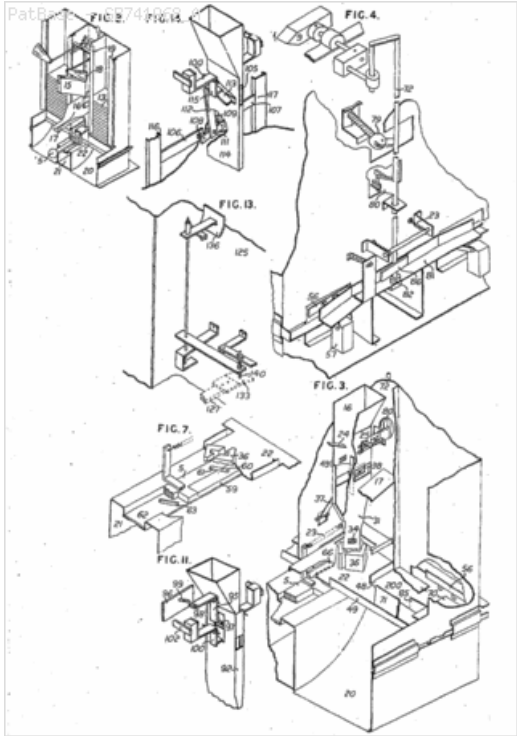
Classifications:

International (IPC 8-9): G07F11/10 (Advanced/Invention);
G07F11/04 (Core/Invention)

International (IPC 1-7): G07F11/04

CPC: G07F11/10

European: G07F11/10



Family:

Publication number	Publication date	Application number	Application date
GB741968 A	19551214	GB19530025748	19530917

Priority:

19520917

Probable Assignee: T S SKILLMAN AND COMPANY PTY L

Assignee(s): (std): T S SKILLMAN AND COMPANY PTY L

Assignee(s): T S SKILLMAN AND COMPANY PTY LIMITED ; T S SKILLMAN AND CO PTY L

7) Family number: 20514067 (GB977748A)

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Title: Parking meter

Abstract: 977, 748. Parking meters. CAL-KAY PRODUCTS Inc. May 28, 1962 [June 7, 1961], No. 20492/62. Heading G4V. A parking meter comprises a coin entry mechanism having positions receiving and blocking coin entry respectively, a timer for measuring an automobile parking period, means functioning in conjunction with the entry of a coin to the mechanism to initiate operation of the timer and displace the mechanism to the coin blocking position, and means responsive to an automobile leaving the parking space associated with the meter for cancelling unused time of the period and contemporaneously displacing the mechanism to the coin receiving position. The timer consists of a clockwork mechanism

having a spring which is secured to a shaft 32, Figs. 2, 5, 6 and 7 and tensioned by rotation of a handle 66 on a shaft 64. When a coin has been inserted in a slot and received in aligned slots in a coin carrier 63, the carrier engaging one of several slots 62 on a disc 68 secured to the shaft 32. The rotation of shaft 32 rocks a plate 27 from a position in which a pin 83 engages a projection 84 on a lever 82, to a position in which a second pin 86 engages the projection. Where the projection is engaged by the pins, the lever is moved about a pivot 76 to cause a part 73 to move a shutter 71 to a position permitting insertion of a coin through one or other of slots 61. The provision of the second pin 86 permits the slots to remain unblocked for a few minutes so that a further coin can be inserted, if desired, and further time to be purchased. The clockwork mechanism has a normal balance wheel 37, and escapement 36 controlling the unwinding of main spring which slowly rotates shaft 32 to cause the pin 86 to be moved from the projection 84 so that the lever 82 is urged by a spring 78 to a position in which the part 73 has moved the shutter to a position blocking the coin slots. At the expiry of the time purchased, the pin 83 re-engages the projection 84 to cause the shutter to open the coin slots and a circular track 94 rotated by shaft 32 moves to a position enabling a pin 97, Fig. 13, on a lever to enter an opening 96, the lever moving to raise a "time expired" flag 88. If the handle 66 is then rotated a "violation" flag 89 is raised as a result of the coin carrier being lifted from a pin 98. The shaft 32 also carries a cam 93 co-operating with a time hand 91. If, before the expiry of the time purchased, the automobile is driven away from the parking space, the wheels compress a tube 54, Fig. 1, in the roadway to cause a pulse of air to pass through a pipe 53 and act on a diaphragm 48, the movement of which axially moves a shaft 34 carrying a gear 56 in the train between the main spring and escapement from engagement with a gear 42 so that the spring is rapidly unwound to cancel any unexpired time. In an alternative embodiment, the blocking of the coin slots is effected by a rotary shutter 71a, Fig. 24, which is only movable from its blocking position when the automobile leaves the parking space. The shutter is connected by a link 104 to a plate 108 which is vertically movable on and pivotable about a pin 109. When a coin is inserted in the meter and the coin carrier rotated, a pin 98a is permitted to lift and rotates an actuator 118 to cause a detent 119 to move the plate 108 downwardly so that the link 104 rotates the shutter to block the coin slots. Rotation of shaft 32a causes the disc 68a to rotate and a ratchet wheel 133 is frictionally driven to urge a lever 123 to move to the left so as to rotate an actuator 126, to which it is connected by a pin 129, and raise a detent 128 to a position above the plate 108 which is urged by a spring 149 into engagement with the hubs of the actuators 116, 126. When the coin carrier is returned to its rest position, the detent 119 rises so as not to be operative on the plate 108. During the initial minutes of the time cycle, the wheel 133 is rotated anti-clockwise and lever 123 moves to its right and rotates actuator 126 clockwise so that detent 129 moves the plate 108 downwardly causing link 104 to rotate shutter 71a and block the coin slots. The slots can only be unblocked by the automobile crossing the tube 54, Fig. 1, to send a pulse of air to a pneumatic motor 146, the piston of which then moves to cause plate 108 to disengage detent 129 and return the shutter to its open position; the pulse of air also acts as in the first embodiment to cancel any unexpired time.

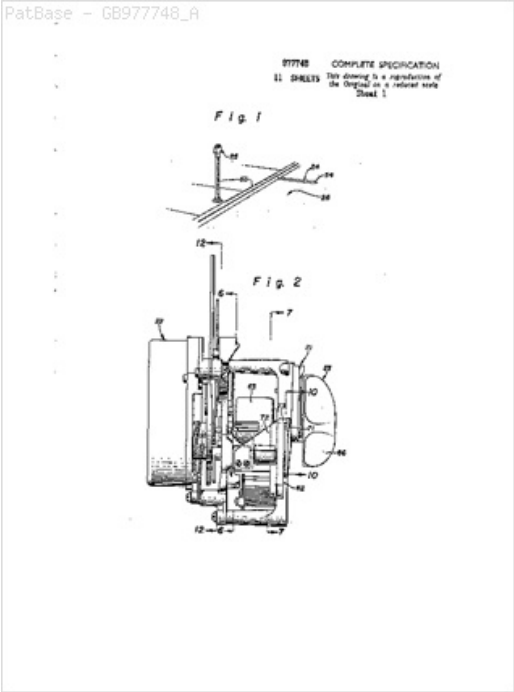
Classifications:

International (IPC 8-9): G07F17/24 (Advanced/Invention);
G07F17/00 (Core/Invention)

International (IPC 1-7): G07F17/24

CPC: G07F17/246

European: G07F17/24D



Family:

Publication number	Publication date	Application number	Application date
GB977748 A	19641209	GB19620020492	19620528

Priority:

US19610145010 19610607

Probable Assignee: CAL KAY PRODUCTS INC

Assignee(s): (std): CAL KAY PRODUCTS INC

8) Family number: 20641078 (WO9912451A1)

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Title: ACCUMULATOR OF SELF-SERVICE TROLLEYS

Abstract: Accumulator of self-service trolleys comprised of a series of platforms (2) on which are placed the trolleys (1) by means of a chain-operated hooking system (8) which actuates on the lower part of the trolleys and which holds them between each other without encasing them. Said platforms (2) can be actuated heightwise by means of sets of vertical spindles (26), the system also comprising a control module (5) with a sensor indicating the condition of the trolleys (1).

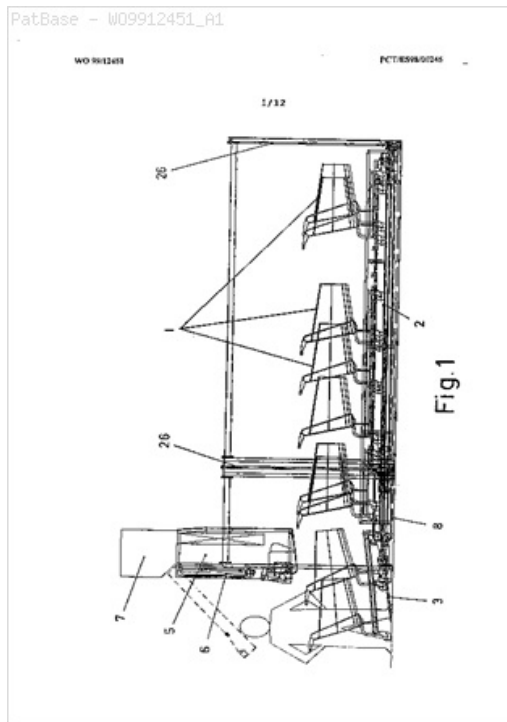
Classifications:

International (IPC 8-9): A47F10/04 G07F1/06
G07F7/06 (Advanced/Invention);
A47F10/00 G07F1/00 G07F7/00 (Core/Invention)

International (IPC 1-7): A47F10/04 B42B5/12 F16M13/00 G07F1/06
G07F1/6 G07F7/06

CPC: A47F10/04 G07F7/0636 G07F7/0645

European: A47F10/04 G07F7/06C3 G07F7/06C3B

**Family:**

Publication number	Publication date	Application number	Application date
AU199890727 A1	19990329	AU19980090727	19980907
ES2143926 AA	20000516	ES19970001902	19970908
ES2143926 BA	20001201	ES19970001902	19970908
ES2154170 AA	20010316	ES19980001856	19980903
ES2154170 BA	20011016	ES19980001856	19980903
W09912451 A1	19990318	W01998ES00245	19980907

Priority:

ES19970001902 19970908 ES19980001856 19980903 W01998ES00245 19980907

Probable Assignee: METODOS Y SISTEMAS BASICOS S A

Assignee(s): (std): GARAYAR ELIZONDO MARIANO ; METODOS Y SIST S BASICOS S A ; METODOS Y SISTEMAS BASICOS S A ; PEREZ SAN ROMAN JOSE MIGUEL

Assignee(s): METODOS Y SISTEMAS BASICOS SA

Inventor(s): (std): ELIZONDO MARIANO GARAYAR ; ROMAN JOSE MIGUEL PEREZ SAN ; PEREZ SAN ROMAN JOSE MIGUEL ; GARAYAR ELIZONDO MARIANO

Inventor(s): MARIANO GARAYAR ELIZONDO ; JOSE MIGUEL PEREZ SAN ROMAN

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

9) Family number: 20791728 (GB878145A)

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Title: Improvements in and relating to prepayment time meter

Abstract: 878,145. Coin-freed time-controlled apparatus. UNITED GAS INDUSTRIES Ltd. March 31, 1958; [Jan. 12, 1957; March 29, 1957], Nos. 27929/56 and 10447/57. Class 27 [Also in Group XXV] A prepayment time-controlled mechanism for a parking meter, washing machine, pleasure boat or vehicle, television set, gramophone or other apparatus comprises an operating member which is moved to the limit of its travel in one direction on insertion of a coin, either directly by the coin insertion or by a handle coupled to the setting mechanism by the coin insertion, and is then permitted to move under a biasing force to the limit of its travel in the other direction as determined by the value of the coin and under the control of a timing or escapement mechanism. The operating member may move horizontally and be biased to its returned position by a spring or, in the parking meter described, is a weight 7 movable on vertical pillars 6 of round or non-circular section. Jaws 15 are pivoted in a coin channel 12 and are interconnected by links 17 to a spindle 18 so that as a coin is inserted to force the jaws apart the spindle is raised and a hook lever 20 pivoted on it raises a lever 24 connected to the weight 7. The weight is raised to its upper limit, where it is held by a latch 27, and the hook lever engages an adjustable stop 29 so that it is disengaging from the lever 24. The jaws 15 slowly return to their original positions under the control of a dashpot 105 and the jaw 15 releases the latch 27 so that the weight can descend. A rack 62 on the weight meshes with a gear 63 connected to a timing escapement 9 through a clutch 65 that over-runs as the weight rises and includes a pin working with lost motion in an angular slot so that when the weight is freed it falls freely as the pin moves from one side to the other of the slot and picks up with the timing escapement at a uniform position. Alternatively the latch 27 may have a vertical pivot and the weight may rest on it until it is released by an element of the dashpot 105. The coin has fallen to a release plate 31 where it remains in view through a window until the movement of the jaws 15 on insertion of a subsequent coin cause a cranked element 35 to move the plate 31 for release of the coin to a collecting box. The coin on the release plate, according to its diameter, sets a lever 13 mounted on a leaf spring 14 or pivot and, through linkage 48, 49, a selector plate 43, Fig. 7, is adjusted along a spindle 46 carried in pivoted arms 54. For the smallest coin, a shallow cut-out 58 in the plate is brought into the path of a stepped cam 41 on the descending weight and the first step 60 of the cam presses the plate outwardly. A slotted arm 75 then disengages the clutch 65 and the weight, freed from the timing mechanism, sinks rapidly to a resilient stop 30. For an intermediate coin, the cut-out 59 is effective to cause the step 61 to release the weight at a later stage and, for the largest coin, the cutout 44 allows the weight to fall under timed control for the full period until it meets the stop 30. If a coin of incorrect size is inserted, the selector plate will be positioned so that it is moved by the rising weight to maintain the clutch disengaged. The coin may be pressed between the jaws 15 by a presser handle which is locked in the down position by the raised weight acting on a spring-loaded plunger to insert it in a hole in the presser handle. In an alternative arrangement,

Figs. 9 and 10, the rack is formed on a member 90 which is slidable in a groove 88 in the weight 87 and has a plate 91 resting on the upper surface of the weight so that it rises with it. When the weight is raised to its upper limit, a plunger 95 is depressed and through a lever 99 moves a catch 101 so that, after a short fall of the weight, it will engage the bottom of a recess 103 on the member 90 and lock the weight to the rack for descent under the control of the timing mechanism. As the weight and rack become connected only if the weight is raised to its full extent, the mechanism cannot be operated by repeated insertion and withdrawal of a coin or implement. Indicators. To indicate the passing of prepaid time, masks 78 may be moved gradually over a graduated scale as the weight 7 falls. The masks may carry a legend TIME EXPIRED at their upper ends and to bring the legends smartly into view, the bracket 80 carrying the masks may have pins 81 engaging in a slideway 79 and bearing on a lobed cam 82. As the weight rises, a pin 84 on the cam contacts an abutment 86 and rotates the cam to cause the pin 81 on the bracket to rise to the top of a cam lobe and lift the bracket through a distance additional to the movement of the weight. As the weight reaches its lowermost position, another pin 84 of the cam strikes a lower abutment 85 to rotate the cam so that the pin 81 falls into the space between two lobes and the legend is brought quickly into view. Alternatively, the weight may carry a pointer and as the weight reaches its lowermost position it may allow a counterweighted flag to spring into view and mask the dial. Casings.-A lower casing 122, Fig. 14, is slidable downwards on a support post 125 to provide access to a coin box 153 after release of a hook latch 128 by a cylinder lock. The key in the lock turns a crank pin 133 through about 90 degrees to move a pawl 136 pivoted on the latch against a stop 138 and pivot the latch clear of a bar 127 extending across the post. The casing, together with the lock, can then be pulled down and, as the pin 133 clears the pawl 136, the latch returns to normal position ready to engage the bar again when the casing is returned to its upper position. To prevent removal of the key when the casing is lowered, an elongated stop within the post may prevent movement of the crank pin and the upper part of the stop may follow the sweep of the pin. Alternatively, as shown in Fig. 16, a latch 146 may engage a radial edge 142 on a cam 141 on the lock spindle except when a fixed stop 152 causes it to disengage as the casing is moved into its upper position; the pin 143 corresponds to the pin 133. Coin-boxes.-A coin opening 154, Fig. 17, in the box 153 is masked by an arcuate shield 155 until the box is fitted by means of guides 166 into the meter. As the box is slid in, an unlocking rack 167, Fig. 18, on the meter depresses plungers 163 so that lugs 164 are in line with a slot 160 in a locking bar 158 connected to the shield. As the lower part 122 of the casing is moved to its closed position, a plunger enters the hole 168 and moves the bar and the shield against spring action to unmasking position. Where two mechanisms are combined on a single support, the two coin boxes may be controlled by two plungers operated by contact with the bar 127. A tool for moving the shield when the box is removed from the meter may comprise a bar having a replica of the unlocking rack, a plunger for moving the locking bar and a lug for engagement with the opposite end of the box to take the reaction of the locking bar spring.

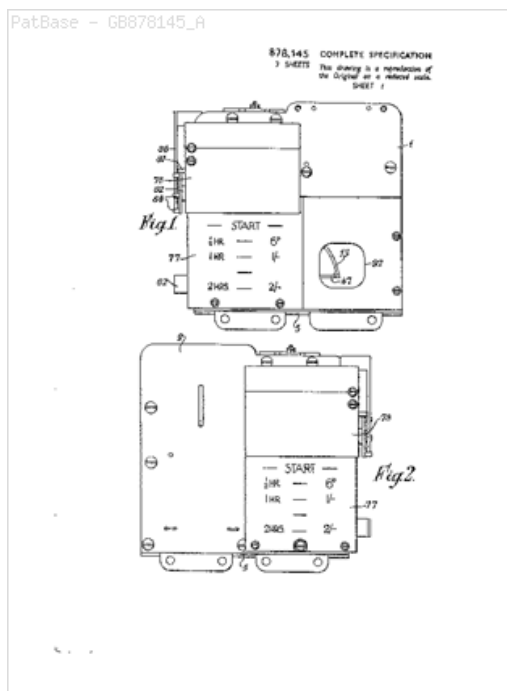
Classifications:

International (IPC 8-9): G07F17/24 (Advanced/Invention); G07F17/00 (Core/Invention)

International (IPC 1-7): G07F17/24

CPC: G07F17/24

European: G07F17/24



Family:

Publication number	Publication date	Application number	Application date
GB878145 A	19610927	GB19560027929	19570112

Priority:

GB19560027929 19570112

Probable Assignee: UNITED GAS INDUSTRIES LTD

Assignee(s): (std): UNITED GAS INDUSTRIES LTD

Assignee(s): UNITED GAS IND LTD ; UNITED GAS INDUSTRIES LIMITED

Inventor(s): (std): BIGGS FREDERICK JOHN ; LERPINIERS PETER RAMSEY ; MULFORD WALTER JAMES

10) Family number: 22469680 (US2580401A)

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Title: Parking meter collection receptacle

Abstract: (Claim 1) 1. In a parking meter, a housing having an opening therein, a door adapted to close said opening and having seating elements thereon spring means urging said door into closed position and permitting bodily withdrawal of the same, means within the housing limiting the withdrawal, latch means positioned in the door and operable from the exterior of the housing for holding the door firmly in closed position, and a coin chamber defined within said housing and including a bottom slanting upwardly from said door opening, whereby withdrawal of said door to the extent of said limiting means brings the door into a position of rest with its seating elements on the housing and retains the same in open position against the action of said spring and permits coins contained in said chamber to discharge between door and chamber bottom edge.

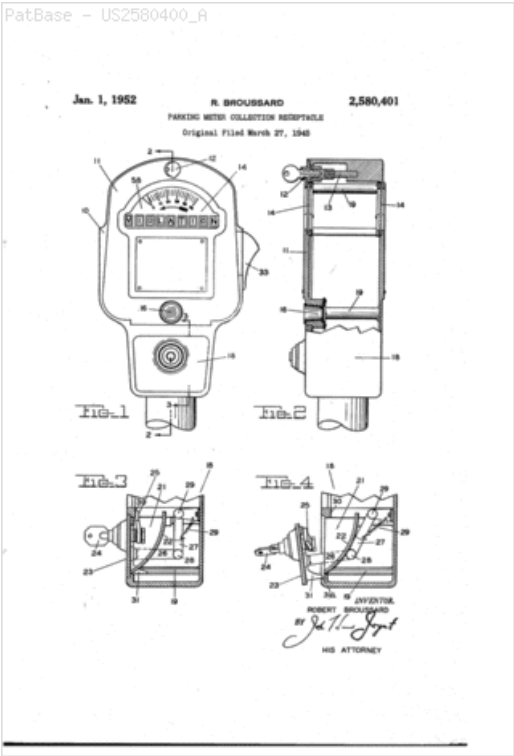
Classifications:

International (IPC 8-9): G07F1/02 G07F17/24 G07F9/06 (Advanced/Invention);

G07F1/00 G07F17/00 G07F9/06 (Core/Invention)

International (IPC 1-7): G07F17/24

CPC: G07F9/06 Y10S194/90 G07F17/24 G07F1/02
European: G07F1/02 G07F17/24 G07F9/06
US: 116/303 194/227 194/229 194/295 194/321 194/324 194/338
194/342 194/900 232/7 368/90 40/333 40/476 40/488



Family:

Publication number	Publication date	Application number	Application date
US2580400 A	19520101	US19450585152	19450327
US2580401 A	19520101	US19460684582	19460718
US2596122 A	19520513	US19460684579	19460718
US2596123 A	19520513	US19460684580	19460718
US2596124 A	19520513	US19460684581	19460718

Priority:

US19450585152 19450327 US19460684579 19460718 US19460684582 19460718
US19460684580 19460718 US19460684581 19460718

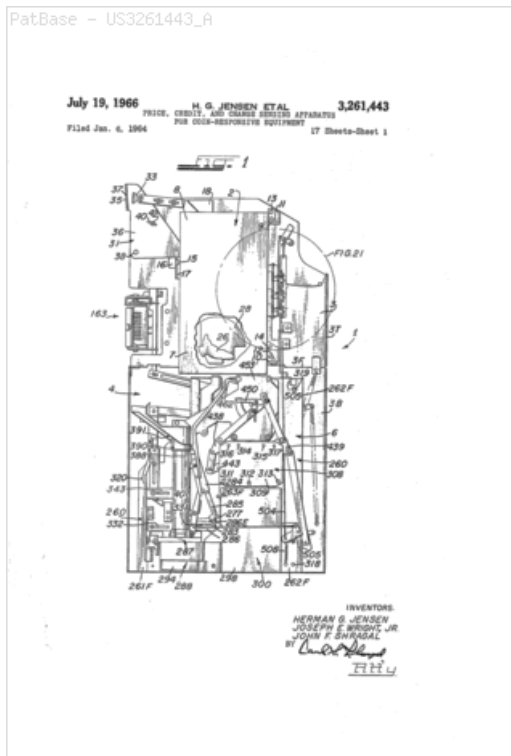
Probable Assignee: DUNCAN PARKING METER CORP
Assignee(s): (std): DUNCAN PARKING METER CORP ; WILLIAM P MACCRACKEN JR
Inventor(s): (std): ROBERT BROUSSARD
Inventor(s): BROUSSARD ROBERT

11) Family number: 22678448 (US3261443A) © PatBase

Title: PRICE, CREDIT, AND CHANGE SENSING APPARATUS FOR COIN-RESPONSIVE EQUIPMENT

Abstract: (Claim 1) Price, credit, and change sensing apparatus for use in equipment which vends in response to coins received therein, the said apparatus comprising: -a fra_me; credit sensing means mounted for vertical movement relative to the frame; credit value means responsive to the credit value of coins received in the vending equipment for imdeding the movement of the credit sensing means; means for moving the credit sensin- means upwardly into enga,_ement with the credit v_alue means; resultant change level means mounted for vertical movement relative to the frames; chan-er mear_s responsive to the upward disposition of the resultant change level means relative to the frame for dispensing change as required; price sensing mear,:s mounted for vertical movement relative to the frame; variable price level means responsive to one of a plurality of predet-_rinined price levels for impeding downward movement of the price sensing means; and linkage means responsive to upward movement of the credit sensing means for moving the price sensing means downwardly until impeded by the price level means and for thereafter moving the change level means upwardly until the credit sensing means is impeded by the credit value me,ans, whereby change is dispensed as required in accordance with the selected price and credit Talues sensed by the apparatus.

Classifications:
International (ipc 8-9): G07F5/20 (Advanced/Invention);
G07F5/20 (Core/Invention)
International (ipc 1-7): G07F5/20
CPC: G07F5/20
European: G07F5/20
US: 194/225 232/57.5

**Family:**

Publication number	Publication date	Application number	Application date
US3261443 A	19660719	US19640335714	19640106

Priority:

US19640335714 19640106

Probable Assignee: SEEBURG CORP**Assignee(s):** (std): SEEBURG CORP**Inventor(s):** (std): JENSEN HERMAN G ; SHRAGAL JOHN F ; WRIGHT JR JOSEPH E**Inventor(s):** JR JOSEPH E WRIGHT**12) Family number: 29735163 (US2371491A)**

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Title: Selector mechanism for automatic phonographs

Abstract: I claim as my invention: _ 1. A selector mechanism, comprising a rotatable selector drum having a plurality of annular rows of switch-governing push buttons thereon, a plurality of selector elements disposed in operative relation to said push buttons for actuating them to a selective-governing position, means operatively connected to and initiated by the movement of a selector element to a selecting position for advancing said drum a predetermined distance, a rotatable switch assembly rotatable with and housed in said drum including a longitudinal row of switches companion to and aligned with said rows of push buttons for successive actuation by selected buttons in predetermined sequence to switch-closing position during an advance movement of said drum, means mounted on and rotatable with the switch assembly for restoring I. pre-selected switch-governing button to its nonselective position, a manual selection-cancelling member, a cancelling bar fixedly mounted with respect to the drum for movement to and from at button-cancelling position, and means initiated by said cancelling member and operatively connected to said cancelling bar and the drum for simultaneously rendering the former operative to a button-cancelling position and for turning the drum in the opposite direction a like distance to bring a selected button out of switch-closing contact when it is desired to cancel' a selection. 2. A selector mechanism, comprising a rotatable 'selector drum having a plurality of annular rows of switch-governing push buttons thereon, a plurality of selector elements disposed in operative relation to said push buttons for actuating them to s. selective-governing position, means operatively connected to and initiated by the movement of ap selector element to a selecting position for advancing said drum a predetermined distance, a rotatable switch assembly housed in said drum including a longitudinal row of switches companion to and aligned with said rows of push buttons for successive actuation by selected buttons in predetermined sequence to switch-closing position during an advance movement of said drum, means operatively connected to the selector drum for 'turning it in the opposite direction a like distance _to bring a selected . 2,871,491 _ 7 button out of switch-closing contact when it is desired to cancel such selection and including a manual selection-cancelling member for actuating the same, and means operatively connected to said cancelling member and in the path of a pre-selected switch-governing button for restoring it to its non-select position. 3. A selector mechanism, comprising sl rotatable selector drum having a plurality of annular rows of switch-governing push buttons thereon, a plurality of selector elements disposed in operative relation to said push buttons for actuating them to a selective-governing position, means operatively connected to and initiated by the movement of a selector element to a selecting position for advancing said drum a predetermined distance, a rotatable switch assembly housed in said drum including a longitudinal row of switches companion to and aligned with said rows of push buttons for successive actuation by selected buttons in predetermined sequence to switch-closing position during an advance movement of said drum, means operatively connected to the selector drum for turning it in the opposite direction a like distance to bring a selected button out of switchclosing contact when it is desired to cancel such selection and including a cancelling bar fixedly mounted with respect to the drum and the switch assembly for radial displacement to and from a cancelling position in the path of a pre-selected switch-governing button, means connected to said bar for normally urging it to its non-cancelling position, and means operatively connected to said bar for displacing it to cancelling position., 4. A selector mechanism for automatic phonographs and the like, comprising a casing, a selector drum journaled in said casing for movement in step by step fashion to predetermined selective positions, annular rows of-selector-governing buttons disposed side by side lengthwise of said drum and selectively projectable to selected positions, a plurality of manually-actuated selector elements mounted on said casing in correlation to said .buttons for movement to and from a selective-governing position, means connected to said selector elements for normally urging them from a selective to a non-selective position. connections between said selector elements and said buttons for projecting the latter' to a selective position upon the movement of companion selector elements to select positions, a pair of cancelling members _disposed lengthwise within said drum and projectable to positions for restoring a projected button to its initial position, one of the

cancelling members being Hxed with respect to the rotatable drum and the other being connected with the drum to rotate therewith. means operatively connected to the relatively fixed cancelling member for manually actuating it to a button-restoring position, means initiated by the phonograph and operatively connected to the companion drum-rotatable cancelling member for automatically actuating it to a button-restoring position, and connections between said selector elements and the selector drum for advancing it a selective step upon the movement of a given selector element from a selective position to a non-selective position. ~ 5. A selector mechanism for automatic phonographs and the like, comprising a casing, a selector drum journaled in said casing for movement in step by step fashion to predetermined selective positions, annular rows of selector-governing buttons disposed side by side lengthwise of said drum and selectively projectable to selected positions, a plurality of manually-actuated selector elements mounted on said casing in correlation to said buttons for movement to and from a selective-governing position, ratchet feed means for advancing said drum intermittently to selective positions, a second ratchet means for causing the return of said drum intermittently subsequently to its advance to a selective position, connections between said selector elements and said buttons for projecting the latter to a selective position upon the movement of companion selector elements to select positions, connections between said selector elements and said first-named ratchet feed means for actuating the latter to advance the drum a selective step upon the movement of a given selector element from a selective position to a non-selective position, a manual selection-cancelling member, means operatively connecting said member with said second ratchet means for rendering the latter operative to cause the return of said drum subsequent to its respective, selective advance movements one step for each actuation of the cancelling member, and means operative by said cancelling member for each actuation thereof for restoring buttons in successive rows to their non-selective positions. - ~ 6. A selector mechanism for automatic phonographs and the like, comprising a casing, a selector drum journaled in said casing for movement in step by step fashion to predetermined selective positions, annular rows of selector-governing buttons disposed side by side lengthwise of said drum and selectively projectable to selected positions, a plurality of manually-actuated selector elements mounted on said casing in correlation to a pair of adjoining rows of said buttons for movement to one or the other of two selective positions, means for restoring said selector elements to their normal position after movement to a selective position, actuating plungers disposed in alining relation with said rows of buttons, operative connections between each of said selector elements and adjoining plungers for projecting an alined plunger and its companion button to a selective position in response to a movement of a given selector element to a corresponding selective position, and connections between said selector elements and the selector drum for advancing it, a selective step upon the movement of a given selector element from its selective position to its restored normal position. , '7. In a device of the character described, a casing, a selector drum journaled in said casing for movement in step by step fashion to different selective positions, a plurality of annular rows of selector-governing buttons guided in the periphery of said drum for projection to and from selective position, a plurality of manually-actuated selector elements mounted in said casing in correlation to said buttons for movement to and from a selective-governing position, normally-retractable plungers alined with said buttons and operatively connected to the companion selector elements for actuation thereby to a button-depressing position, a ratchet feed means for advancing said drum intermittently to selective positions, an operative connection between said ratchet feed means and said plungers, and common to the latter, for causing the actuation of said feed means as an incident to the movement of the selector elements to a selective-governing position, a radially-displaceable member 8 '9,sv1,491 - mounted lengthwise within said drum and engageable with one or another of the selectively-positioned buttons for restoring them to their normal position, and means operatively connected to said displaceable member for actuating it to and from its button-restoring position. 8. In a device of the character described, a casing, a selector drum journaled in said casing for movement in step by step fashion to different selective positions, a plurality of annular rows of selector-governing buttons guided in the periphery of said drum for projection to and from selective positions, means for selectively projecting said buttons to a selective-governing position, means for advancing said drum a given distance in response to the projection of a button to a selectively-projected position, a radially displaceable cancelling plate disposed lengthwise within said drum and projectable to a position for restoring a projected button to its initial position, a ratchet feed means for moving said drum in the opposite direction, a cancelling lever operatively connected to said ratchet feed means for actuating it, and an operative connection between said ratchet feed means and said cancelling plate for actuating the latter to its button-restoring position when said lever is moved to its cancelling position. ' 9. In a device of the character described, a casing, a selector drum journaled in said casing for movement in step by step fashion to different selective positions, a plurality of annular rows of selector-governing buttons guided in the periphery of said drum for projection to and from selective positions, means for selectively projecting said buttons to a selective-governing position, means for advancing said drum in step by step fashion in response to the projection of a button to a selectively-projected position, 5, rotatable switch assembly housed within said drum including a longitudinal row of switches in bridging relation to and for alining contacting engagement with said buttons, when in a selective projected position. for successive actuation by said buttons to a switch-closing position during an advance movement of the drum, the depressed buttons, acting as clutch elements when contacting companion switches to advance the switch assembly jointly with the advancing movement of the drum, and means operatively connected to said switch assembly for yieldingly resisting its advancing movement. 10. In a device of the character described, a casing, a selector drum journaled in said casing for movement in step by step fashion to different selective positions, a plurality of annular rows of selector-governing buttons guided in the periphery of said drum for projection to and from selective positions, means for selectively projecting said buttons to a selective-governing position, means for advancing said drum in step by step fashion in response to the projection of a button to a selectively-projected position, a rotatable switch assembly housed within said drum including a longitudinal row of switches in bridging relation to and for alining contacting engagement with said buttons, when in a selective projected position, for successive actuation by said buttons to a switch-closing position during an advance movement of the drum, the depressed buttons acting as clutch elements when contacting companion switches to advance the switch assembly jointly with the advancing movement of the drum, means operatively connected to said switch assembly for yieldingly resisting its advancing movement, a radially-displaceable member mounted lengthwise within said drum alongside said switch assembly and engageable endwise with one or another of the selectively-positioned buttons for restoring them to their initial position. and means operatively connected to said displaceable member for actuating it to and from its button restoring position, said yieldingly resisting means acting to urge the switch assembly in the opposite direction upon the restoration of a projected button to its initial position and against the next projected button

Classifications:

International (IPC 8-9): G07F17/30 G11B17/04

G11B17/22 (Advanced/Invention);

G07F17/00 G11B17/04 G11B17/22 (Core/Invention)

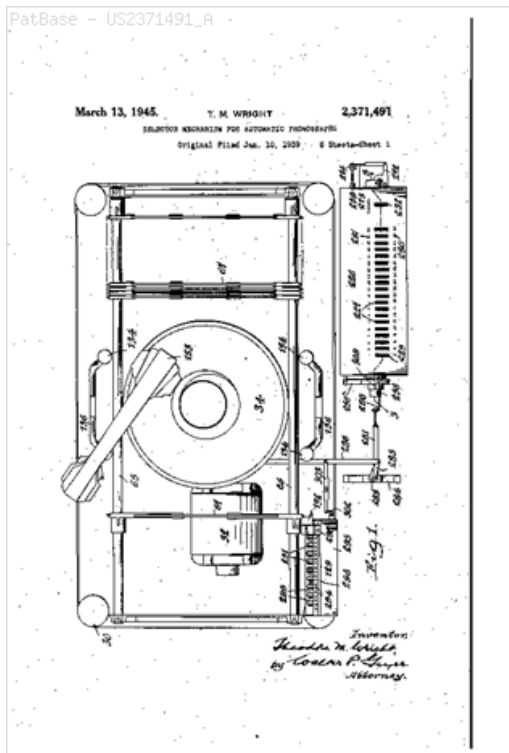
International (IPC 1-7): G07F17/30 G11B17/22

CPC: G07F17/30 G11B17/04 G11B17/22

European: 42G20D G07F17/30 G11B17/04 G11B17/22

US: 340/4.37 340/4.4 340/825.24 340/825.25 369/184 369/192

369/192.1 369/204 369/34.01 369/38.01 G9B/17.013 G9B/17.051

**Family:**

Publication number	Publication date	Application number	Application date
US2298447 A	19421013	US19390250252	19390110
US2371491 A	19450313	US19420435489	19420320

Priority:

US19390250252 19390110 US19420435489 19420320

Probable Assignee: WURLITZER CO

Assignee(s): (std) WURLITZER CO

Assignee(s): RUDOLPH WURLITZER CO ; THE RUDOLPH WURLITZER COMPANY

Inventor(s): (std) WRIGHT THEODORE M

13) Family number: 30783539 (US3484021A)

© PatBase

Title: FLUID DISPENSING APPARATUS WITH COST AND VOLUME REGISTERS

Abstract: ABSTRACT OF THE DISCLOSURE

Fuel dispensing apparatus having a register for registering the cost and volume of fuel dispensed, and a varia- 15 tor for setting the unit volume price with two quick-change range arms and corresponding range arm setting mechanisms controllable by a selector knob and operable to set the range arms when the register is reset. The quick change range arms are adapted to be selectively set into 20 engagement with the steps of a variator input cone gear and with a fixed detent by a specially contoured generally helically extending rack and a pinion driven by a vertically extending range arm setting shaft. A plurality of "price" cams angularly adjustable on the range arm set- 25 ting shaft cooperate with corresponding selectively operable pawls to set the angular position of the range arm setting shaft, and the selector knob through a selector cam provides for selectively activating the "price" cams by withdrawing the pawls from the remaining "price" 30 cams. During the reset cycle of the register the register reset shaft operates to rotate the range arm setting shaft in one angular direction to load a range arm setting spring which is subsequently tripped to rotate the range arm setting shaft in the opposite angular direction to set the 35 range arm in accordance with the angular position of the active "price" cam. A modified variator is shown in FIGS. 7 and 8 in which the quick change range arm output shaft is adapted to be selectively added to or subtracted from the outputs of the remaining two range arms of the variator. A $\pm$ range arm is mounted on the range arm output shaft to selectively rotate a variator summing differential input 0 gear in opposite angular directions. The $\pm$ range arm is controlled by a cam which is set with the selector knob and which is adapted to be adjustably mounted to provide for either adding or subtracting the range arm out- 50 put at each position of the selector knob. The computing apparatus may be employed in a blending fuel dispensing system as shown in Fig. 9 wherein the selector knob is employed to select the blend ratio in conjunction with the selection of each of the "price" 55 cams; or may be employed in a nonblending multiple product fuel dispensing system as shown in Fig. 10. In the nonblending system three separate fuel delivery systems and corresponding control handles are provided for dispensing three separate products, and the control han- 60 dles are connected to a product selector mechanism to position a "price" selector shaft and for automatically operating a register reset control mechanism after the selector shaft is positioned. Interlocks are provided to permit operating the product selector mechanism with 65 one of the control handles and a switching arrangement is employed for selectively energizing the pump motor and shut-off valve of each of the three separate fuel delivery systems. BRIEF SUMMARY OF THE INVENTION

Classifications:

International (IPC 8-9): B67D7/08 B67D7/22 G01F11/00 G01F13/00

G07F15/00 (Advanced/Invention);

B67D7/08 B67D7/22 G01F11/00 G01F13/00

G07F15/00 (Core/Invention)

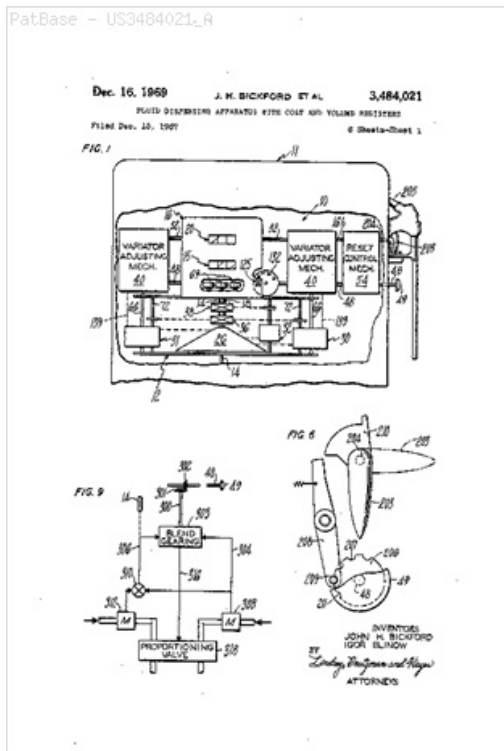
International (IPC 1-7): B65D5/08 B67D5/08 B67D5/22 F16H17/08

F16H27/06 F16H3/22 F16H3/34 G01F11/00 G07F13/00 G07F15/00

CPC: Y10T74/1934 B67D7/225

European: B67D7/22C2

US: 222/26 74/348

**Family:**

Publication number	Publication date	Application number	Application date
DE1814967 A1	19690821	DE19681814967	19681216
FR1602722 A	19710118		19681211
GB1246984 A	19710922	GB19680059457	19681213
GB1246985 A	19710922	GB19690052504	19681213
GB1246986 A	19710922	GB19690063441	19681213
JP48018504 B4	19730606	JP19680091488	19681214
JP50023319 B4	19750806	JP19690088337	19691105
US3484021 A	19691216	US19670690902	19671215

Priority:

US19670690902 19671215

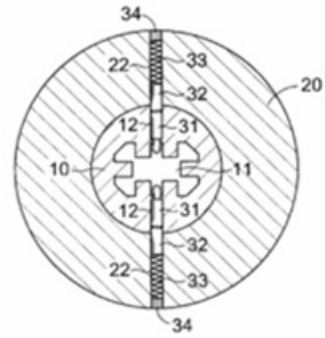
Probable Assignee: VEEDER IND INC**Assignee(s):** (std): VEEDER IND INC ; VEEDER INDUSTRIES INC**Assignee(s):** VEEDER INDUSTRIE INC**Inventor(s):** (std): HERBERT BICKFORD JOHN ; BLINOW IGOR ; BICKFORD JOHN H**Inventor(s):** JOHN H BICKFORD ; IGOR BLINOW**14) Family number: 34943782 (TWM303953Y)**

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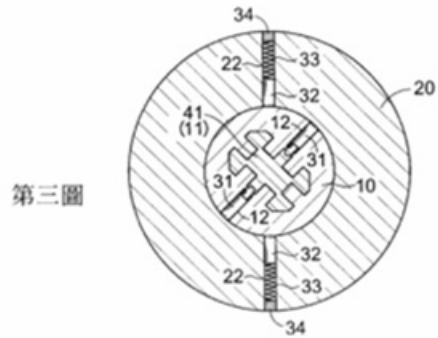
Title: Lock core and key structure thereof

Abstract: Source: TW303953Y **Machine translation:** The present record as the Department of ?? species with high Seoul golf ball machine, its department in the trafficking trafficking available available or second stocker stocker machine shell of ?? open patent publication may operate independently of the trafficking available port, and independently in each trafficking available port after party disposed first independently trafficking, but also each independently trafficking machine sales sales department of the container by a common ball machine room, an entire column rack, a second roller, a ball rail group, the first group, the first chute and sliding live-gate door frame, a horse undeveloped phosphonium group, a control group fed a circuit components. Wherein the live-SLIDING-gate door composition by electro magnetic within the optimum department, elbows festival, Kan-shaped sliding gate door and a live heart axis composed, and is disposed beneath the ball tracks set below before; When the operator in the feeding ? or credit card mode, turn the carboxy, ? moving horse undeveloped transported through the main, round, strip, and the phosphonium ?? = volume of the drum, so that the high turn round Seoul golf ball by the vortexes can shop the oblique-type ball boots, and electro-magnetic within the optimum range can pull on the elbows festival moving live Kan-shaped sliding gate door before moving down, forcing the Kan-shaped live-gate door female high Seoul golf ball by ball rail while moving, by rolling and then discharged to the chute frame female beneath the outer machine trafficking available; To be electro magnetic loss of the magnetic diameter within the optimum range, and then the live Kan-shaped sliding gate door use Planning Act itself and return to its original position, then the counterweight complex obliquely mounted on the ball rail high-Seoul golf ball will be able to sequentially rolling into Kan-shaped sliding gate door, pending the next time \ live female applied; The present record as due to having a single or double amino olefins using trafficking available port, it is trading volume can lift.

Classifications:**International (IPC 8-9):** E05B15/14 G07F11/62 (Advanced/Invention); G07F11/62 (Core/Non-invention)**International (IPC 1-7):** G07F11/62



第二圖



第三圖

Family:

Publication number	Publication date	Application number	Application date
TW303953 Y	19970421	TW19960217013U	19961106
TWM303953 Y	20070101	TW20060213215U	20060727

Priority:

TW19960217013U 19961106 TW20060213215U 20060727

Probable Assignee:

WANG MING ZONGTW

Assignee(s): (std):

SHIE SHIOU YU ; WANG MING ZONG

Assignee(s):

WANG MING ZONGTW

Inventor(s): (std):

SHIE SHIOU YU ; WANG MING ZONG

15) Family number: 5124573 (GB1596743A)

© PatBase

Title: TOKEN-OPERATED LOCKS

Classifications:

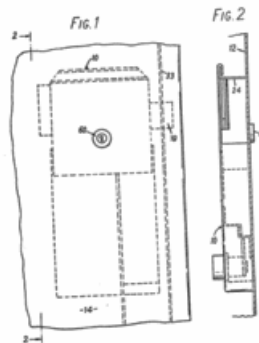
International (IPC 8-9): G07F17/12 (Advanced/Invention);
G07F17/10 (Core/Invention)

International (IPC 1-7): G07F17/12

CPC: G07F17/12

European: G07F17/12

1596743A PROVISIONAL SPECIFICATION
4 SHEETS
This drawing is a reproduction of
the Original on a reduced scale
Sheet 1



Family:

Publication number	Publication date	Application number	Application date
GB1596743 A	19810826	GB19760040033	19771223

Priority:

GB19760040033 19771223

Probable Assignee:

RANDALL AND SONS LTD JAMES H

Assignee(s): (std):

RANDALL AND SONS LTD JAMES H

16) Family number: 14899374 (EP1088504A1)

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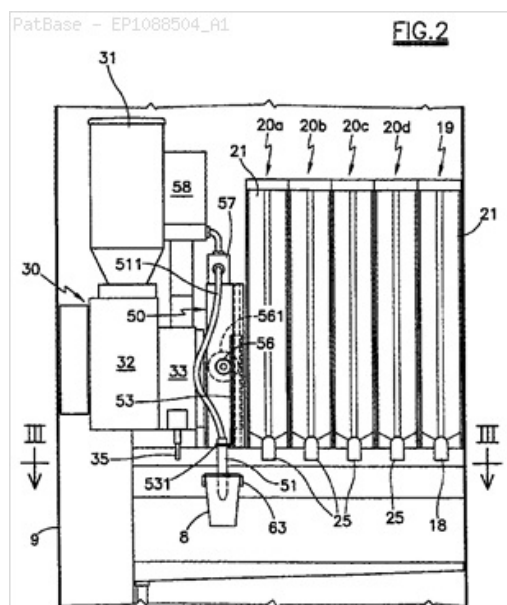
Title: AUTOMATIC CUPPED DRINKS DISPENSER AND ITS METHOD OF OPERATION

Abstract: The dispenser comprises a plurality of delivery stations (20a,... 20d) provided with vessels (21) containing respective component materials in powder form or the like, soluble in a liquid component: in its operation, firstly, a cup is brought to the exit point of at least one said delivery station (20a,..., 20d), where a measured quantity of the component in powder form is released directly into the cup; after this, the cup is moved into a mixing station (50) comprising a delivery means (51) for the liquid component, where the liquid component is delivered in the form of a fast jet emitted under pressure through at least one exit hole (52) directed against the powder component mass until the desired liquid drink is obtained, said exit hole (52) of the delivery means being maintained above the upper level of the substance (S) present in the cup while the liquid component is being fed in.

Classifications:**International (ipc 8-9):** A47J31/40 G07F13/06

G07F13/10 (Advanced/Invention);

A47J31/40 G07F13/06 G07F13/10 (Core/Invention)

International (ipc 1-7): A47J31/40 B67D**CPC:** A47J31/401 G07F13/065 G07F13/10**European:** A47J31/40C G07F13/06B G07F13/10**Family:**

Publication number	Publication date	Application number	Application date
AT276695 E	20041015	AT20000203301T	20000926
DE60013997 D1	20041028	DE20006013997	20000926
DE60013997 D1	20041028	DE20006013997T	20000926
DE60013997 T2	20050127	DE20006013997T	20000926
EP1088504 A1	20010404	EP20000203301	20000926
EP1088504 B1	20040922	EP20000203301	20000926
ES2226706 T3	20050401	ES20000203301T	20000926
IT1315218 B1	20030203	IT1999RE00097	19990929
ITRE990097 A0	19990929	IT1999RE00097	19990929
ITRE990097 A1	20010329	IT1999RE00097	19990929

Priority:

IT1999RE00097 19990929

Probable Assignee: DUCALE MACCHINE DA CAFFE DI SA**Assignee(s): (std):** DUCALE MACCHINE DE CAFFE DI SA ; DUCALE MACCHINE DA CAFFE DI SA**Assignee(s):** DUCALE MACCHINE DA CAFFE DI SANDEI ; DUCALE MACCHINE DA CAFFE DI SANDEI UGO E C S N C ; DUCALE MACCHINE DE CAFFE DI SANDEI UGO E C S N C ; DUCALE MACCHINE DE CAFFE DI SANDEI UGO E C S N C PARMA ; DUCALE MACCHINE DE CAFFE DI SANDEI UGO EC SNC**Inventor(s): (std):** SANDEI PIETRO ; SANDEI UGO ; SANDEI STEFANO**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE**17) Family number: 20468894 (GB508704A)**

© PatBase

Title: Improvements in or relating to postal franking machines

Abstract: 928. [Class 27] [Also in Group XVI] A postmarking or similar machine comprises a franking or marking die arranged to roll across the envelope c. inserted in the machine, the die forming part of an assembly which is first set or moved into an energized position by the operation of a lever and is then released by the insertion of one or more coins to enable the die to roll over the envelope. The die roller 11 is carried by a pair of side plates 9, 10 which are mounted on a pivot 16 carried by arms 17 pivoted at 18 on the machine frame, and are connected by a link 21 to the upper end of a

vertically slidable rod 5 having a lug 5a on its lower end. The envelope receiving slot 2 in the casing of the machine is normally closed by a pivoted flap 3 which forms the lever for energizing the machine. Upon lowering the flap 3, a pivoted pawl 4a engages the lug 5a, raising the rod 5 and compressing a spring 6 thereon, a latch 7 engaging a notch 8 in the rod to hold it in its upper position. This movement of the rod swings the die carrying assembly about the pivot 16 causing the die to roll over an inking pad 23. Towards the end of the movement, a shoe 24 carried by the assembly strikes a pin 26 thereby actuating linkage 27, 28, 29 to slide a plate 30 over the inking pad. This plate forms the support for the envelope which is then inserted in the slot 2. The rod 5, upon being raised, strikes a lever 63 to cause the withdrawal of a pin 60 which normally obstructs the insertion of a coin into the coin slot. A coin can now be inserted and falls through a guide 32 and depresses an arm 33 connected to a bracket 33a swivelled in the frame and connected by a rod 34 to a lever 35 having a detent 40 normally engaging a collar 39 fast on a shaft 38. The raising of the detent 40 by the coin allows a spring 41a on a rod 42 connected to the plate 9 and acting upon a second lever 38<x> on the shaft 38, to turn the shaft so that a cam 37 thereon withdraws the latch 7 from the notch 8 permitting the spring 6 to move the rod 5 downwardly. The die assembly is thus swung backwards to the position shown, the die rolling over and marking the envelope. During this movement a second spring 41 on the rod 42 resets the shafts 38. By providing a second collar 39 and co-operating releasing detent mechanism, the machine may be controlled by two coins of different value. The coin slot and guide 32 may be inclined to the vertical so that undersized coins fall laterally through a slot 31 into a return shoot 32b.

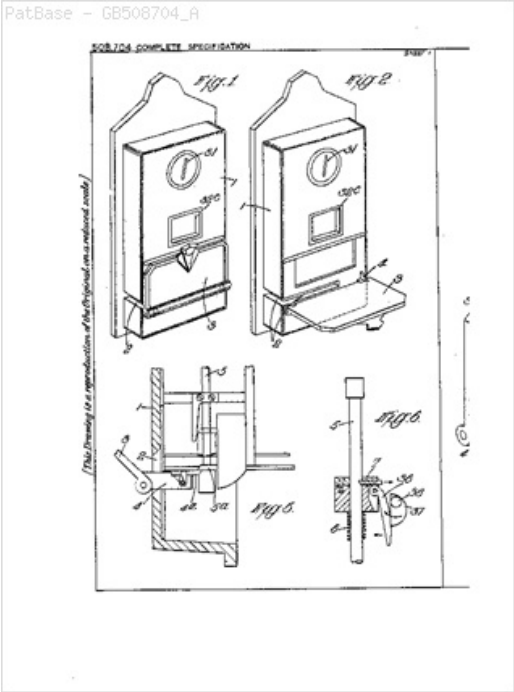
Classifications:

International (IPC 8-9): G07F17/26 (Advanced/Invention);

G07F17/00 (Core/Invention)

CPC: G07F17/26

European: G07F17/26



Family:

Publication number	Publication date	Application number	Application date
GB508704 A	19390705	GB19380000928	19380111

Priority:

GB19380000928 19380111

Probable Assignee:

ISIDORE SUCHET

Assignee(s): (std):

ISIDORE SUCHET

18) Family number: 30823671 (EP1450318A2) © PatBase

Title: AUTOMATIC COIN-OPERATED MACHINE FOR THE PRODUCTION AND ON-DEMAND DISPENSING OF ICE CREAM

Abstract: Automatic machine operated by coins, tokens, push button or remote control, for the production and on-demand dispensing of portions of ice cream which can be customized with toppings selectable by the user, comprising a continuous ice cream machine (23) with a dispensing door (123) in a protected position inside a cabinet (17) in which are provided automatic manipulator means (A) which can move both horizontally and vertically and which, in response to a command and a selection made by the user, take an empty cup from suitable supply means (22), position it under the outlet of the ice cream dispenser (123) in a close position, lower it progressively in synchronization with the supply of ice cream by the said dispenser, in such a way that the ice cream is uniformly distributed and collected in the cup and finally has the characteristic pointed conical shape, provision being made to translate the cup, when the portion of ice cream has been collected, and if necessary to align it with means of supplying a customized topping selected by the user, and then to transfer it to a position where it can be picked up by the said user, preferably outside the said cabinet (17), by the automatic opening of a door (18) which subsequently recloses after the user has picked up the cup of ice cream and when the cup manipulation means have returned to the interior of the machine. (Fig. 4).

Classifications:

International (IPC 8-9): A23G9/28 G06Q20/00 G07F13/10

G07F9/10 (Advanced/Invention);

A47J (Subclass/Invention)

International (IPC 1-7): G07F13/10 G07F9/10

CPC: A23G9/28 G06Q20/02 G07F13/10 G07F17/0071

European: A23G9/28 G06Q20/02 G07F13/10 G07F17/00F2

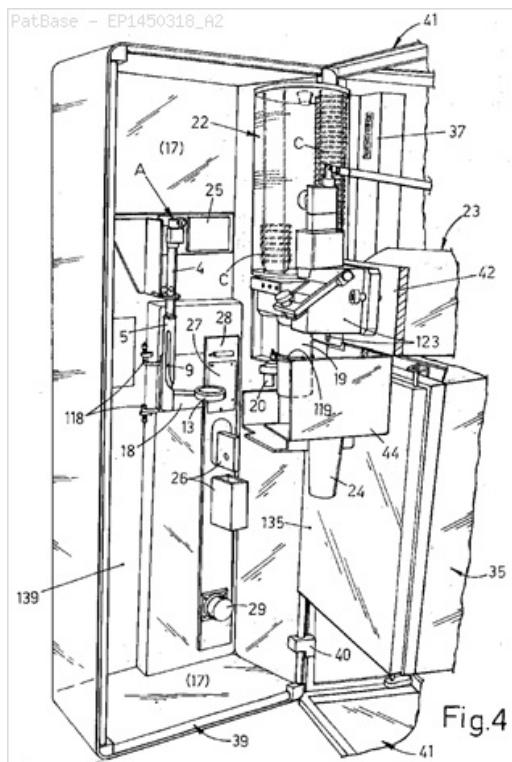


Fig.4

Family:

Publication number	Publication date	Application number	Application date
EP1450318 A2	20040825	EP20040002648	20040206
EP1450318 A3	20041124	EP20040002648	20040206
ITGE20030014 A1	20040822	IT2003GE00014	20030221

Priority:

IT2003GE00014 20030221

Probable Assignee: CARPIGIANI GROUP ALI SPA**Assignee(s):** (std): CARPIGIANI GROUP ALI SPA**Assignee(s):** ALI CARPIGIANI GROUP SPA ; ALI S P A CARPIGIANI GROUP**Inventor(s):** (std): COCCHI GINO ; ZANIBONI GIANNI**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**19) Family number: 37051732** (GB191420323A)

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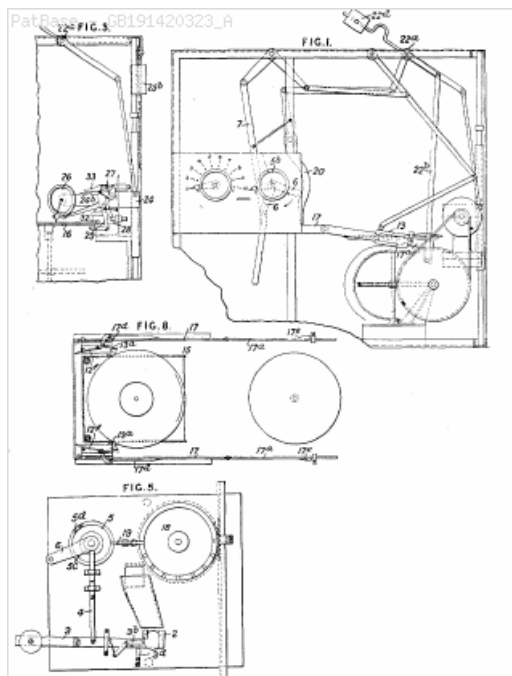
Title: Improvements in Gramophone Apparatus.

Abstract: 20,323. Smith, C. C. Jan. 4, 1915. Multiple raising and lowering sound-boxes starting and stopping brakes, arrangement of.- Records are contained in a vertical rack from which the selected record is removed and placed into position under the reproducer by carriers controlled by hand-operated mechanism a counterweighted slide moving vertically and controlled by the hand-operated mechanism lowers the reproducer to the record and simultaneously closes the circuit of the driving electric motor at the conclusion of the piece, a projection on the surface of the record raises the reproducer and stops the motor. The apparatus may be used with or without coin-freed mechanism. The operator inserts a coin, if necessary, and then rotates a knob 5, Fig. 1, in the clockwise direction, thereby withdrawing an arm 6 from engagement with a lever 20 linked to a spindle 22 extending across the machine, whereupon counterweighted levers 22 rotate this spindle, and, through links 22, raise the pivoted extensions 17 of rails 17 on which travel the record-carriers 13. Simultaneously a guided slide 24, Fig. 3, counterbalanced by a weight 25 and connected to the spindle 22, is raised, an arm 24 projecting from the slide lifting the reproducer 26 from the table 16. As the rotation of the knob 5 continues, the arm 6 raises a spring controlled rod 7, thereby, through levers and links, moving the carriers 13 along the rails 17 and transferring the record last played from the table 16 to the rack 15, Fig. 8. Each carrier bears arms 12, 13 for gripping the record, the arms 12 being fixed to plates which are lifted during the movement of the carriers to clear the shelf of the magazine, and the spring-controlled arms 13 are pivoted to the plates and put into and out of engagement with the record by means of projections 17, 17. At the conclusion of the rotation of the knob 5 in the clockwise direction, a spring-controlled locking-catch 19, Fig. 5, snaps into a notch 5 in a disk 5 and frees a wheel 18, which can then be rotated by hand to raise or lower the rack and bring the selected record into position. The knob 5 is then rotated in the reverse direction, the arm 6 successively engaging the rod 7 and lever 20, whereupon the selected record is moved over the table 16, the rail extensions 17 are moved down, and the slide 24 is lowered permitting the stylus of the reproducer to drop on to the record. Simultaneously a spring-controlled trigger lever 27 pivoted to the slide closes the circuit of the driving-motor through contacts 28 and removes a brake lever 29 from engagement with the table 16. Finally, a projection 32 on the surface of the record raises the tone arm which trips a detent 33 permitting the trigger lever to turn and break the circuit and simultaneously apply the brake 29 to the table.

Classifications:**International (IPC 8-9):** G07F17/30 (Advanced/Invention);

G07F17/00 (Core/Invention)

CPC: G07F17/305**European:** G07F17/30B



Family:

Publication number	Publication date	Application number	Application date
GB191420323 A	19150415		00000000

Priority:

19150104

Probable Assignee:

SMITH CUTHBERT COATES

Assignee(s): (std):

SMITH CUTHBERT COATES

Assignee(s):

CUTHBERT COATES SMITH

Inventor(s): (std):

SMITH CUTHBERT COATES

Inventor(s):

CUTHBERT COATES SMITH

20) Family number: 3178240 (US4867628A)

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Title: Dispenser storage system

Abstract: An article dispensing system comprising a plurality of bins disposed in generally parallel spaced relationship and angulated for facilitating storage and discharge of at least one article contained therein. The system includes an x-y-z positioning mechanism adapted for being disposed adjacent the end of the angulated storage bins. The mechanism is adapted for both loading and retrieving individual ones of the articles into and out of the storage bins. By utilizing a gravity feed system, the mechanical complexity of the x-y-z positioning mechanism is greatly reduced as is the overall cost of the system. Each storage bin is constructed with a lip formed on the lower end thereof for retaining stored articles therein, which retaining lip is inexpensive to fabricate and facilitates simplicity in the mechanical loading and retrieving operation.

Classifications:

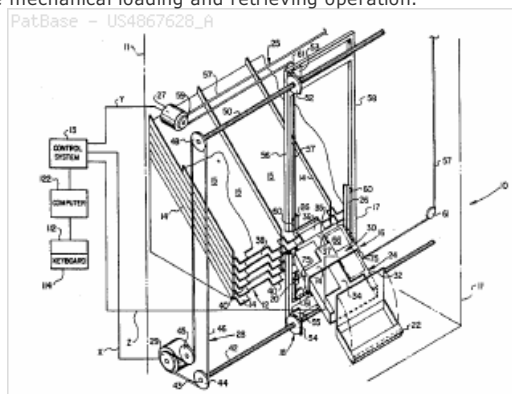
International (IPC 8-9): G07F11/30 G07F11/62 (Advanced/Invention)

International (IPC 1-7): B65G1/06 H04H1/02 H04N7/10

CPC: G07F11/165 G07F11/28 G07F11/30 G07F11/62

European: G07F11/16B G07F11/28 G07F11/30 G07F11/62

US: 221/88 358/86 414/273 414/276 414/281 725/146 725/82



Family:

Publication number	Publication date	Application number	Application date
US4867628 A	19890919	US19880144328	19880115
US5132789 A	19920721	US19890441967	19891128

Priority:

US19880144328 19880115 US19890441967 19891128

Probable Assignee: TILTRAC A CORP OF TX CORP

Assignee(s): (std): AMMON J PRESTON ; STUHLER WILLIAM B ; TILTRAC CORP

Assignee(s): TILTRAC A CORP OF TX CORP

Inventor(s): (std): AMMON J PRESTON ; STUHLER WILLIAM B ; AMMON JOHN P ; PALMER JOHN A

Title: STORAGE AND DISTRIBUTION DEVICE AND METHOD BASED ON ARRANGEMENT WHEREBY LARGEST SIDES OF BOXED PRODUCTS ARE IN CONTACT WITH ONE ANOTHER

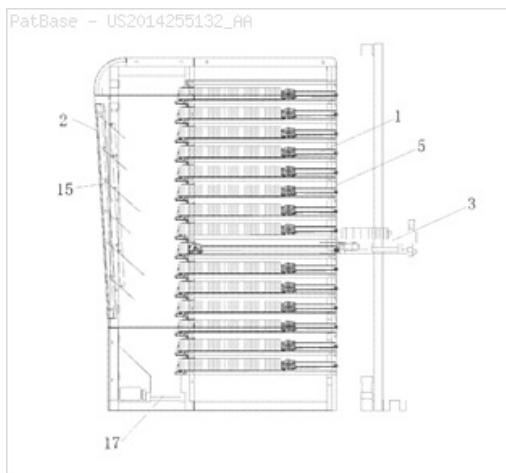
Abstract: A storage and distribution device and method based on an arrangement whereby the largest sides of boxed products are in contact with one another are disclosed. The device includes a storage device, a blind door and a restocking manipulator. The blind door is disposed at the front of the storage device, and the restocking manipulator is disposed at the rear of the storage device. The storage device includes a plurality of storage units. Each of the storage units includes a matrix storage rack provided with a plurality of storage passages in a matrix arrangement. Each of the storage passages includes two baffle plates having brushes and a bottom plate. A discharge control device is disposed at the front of a discharge end of each storage passage. A spiral spring driver is further disposed on each storage passage. The driver is driven by a spiral spring energy-storage device to move stored items towards the discharge end of the passage. The restocking manipulator automatically restocks according to instructions from a computer. The system of the present invention is highly automatic, and has large storage capacity and short feeding time, thereby substantially increasing space utilization rate and operating efficiency.

Classifications:

International (IPC 8-9): B65G1/04 B65G1/137 B65H1/00 G07F11/10 G07F11/62 (Advanced/Invention)

CPC: B65G1/137 B65G1/0435 B65G1/1376 G07F11/62

US: 414/273 414/807



Family:

Publication number	Publication date	Application number	Application date
CN102602639 A	20120725	CN201210067849	20120315
CN102602639 B	20140416	CN201210067849	20120315
CN202529474 U	20121114	CN201220096787U	20120315
DE212012000067 U1	20131205	DE201221000067U	20120420
DE212012000067 U1	20131014	DE201221000067U	20120420
JP3196500 U	20150319	JP20140600106U	20120420
KR101475699 B1	20141231	KR20137014539	20120522
KR20130139304 A	20131220	KR20137014539	20120522
US2014255132 AA	20140911	US20120352403	20120420
US9889989 BB	20180213	US20120352403	20120420
WO13134989 A1	20130919	WO2012CN074447	20120420

Priority:

CN201210067849 20120315 CN201220096787U 20120315 WO2012CN074447 20120420
WO2012CN74447 20120522

Probable Assignee: JIANGSU XUNJIE HARNESS TECH CO

Assignee(s): (std): CHEN ZHIQIANG ; GONG ZHONGLIN ; JIANGSU XUNJIE HARNESS TECH CO ; JIANGSU XUNJIE HARNESS TECHNOLOGY CO LTD ; JIANGSU XUNJIE SCIENCE AND TECHNOLOGY LTD CO OF EQUIPMENT AND TOOLS ; JIANGSU XUNJIE SCIENCE AND TECH CO OF EQUIPMENT AND TOOLS LTD

Assignee(s): JIANGSU XUNJIE SCIENCE AND TECHNOLOGY CO OF EQUIPMENT AND TOOLS LTD ; JIANGSU XUNJIE HARNESS TECHNOLOGY CO

Inventor(s): (std): GONG ZHONG LIN ; ZHONGLIN GONG ; ZHIQIANG CHEN ; GONG ZHONGLIN ; CHEN ZHIQIANG

Agent(s): LEASON ELLIS LLP; NANJING JINGWEI PATENT AND TRADEMARK AGENCY CO LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW