

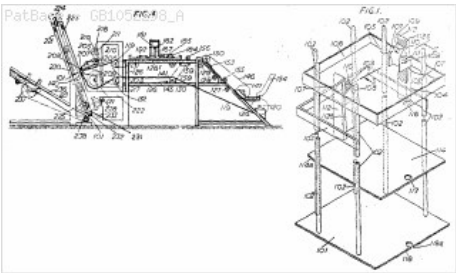
Search history

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Title: Packaging-**apparatus**; feeding plates.

Abstract: Source: GB1052298A 1,052,298. Packaging-**apparatus**; feeding plates. LA CELLOPHANE S.A. Dec. 10, 1964 [Dec. 27, 1963], No. 50361/64. Headings B8C and B8S. Filled bags are grouped and compressed prior to an air evacuation process by being stacked in a skeleton **holder** with separator plates between them, the **holder** having a closure **device** capable of one-way ratchet movement to compress and secure the bags. A machine may feed the bags to a plate **dispenser**, stack the bags and plates in the **holders** and forward the latter to compressing and evacuating means (not described). The **holders** consist of a base 101 to which are attached rods 102, the rods being joined by a strip 103 carrying racks 112. The bags are separated by plates 114 and the **holder** is closed by a cover 106 having holes to receive the rods and racks. Holes 116, 117 and 118 in the cover, plates and base enable a rod, Fig. 3 (not shown) to be passed through to line up the plates after which the cover is forced down and pawls 109 mounted on it retain it in place. The **holders** may be loaded manually. In the machine, they are lowered progressively as filled bags and plates are fed in alternately. Bags pass down a shoot 154, Fig. 4, and are forwarded by belts 119, 146 past "squirrel cage" or plane rollers 155, 156 which even out the contents, to beneath the plate magazine. The magazine comprises guides 161 and retaining arms 167 which are swung outwards. Figs. 6, 7 (not shown), to release a plate 114 when cams on a horizontal slider 164 act on rollers 171. The slider, operated by a cam 184 in response to means actuated by passage of a bag, also includes a pusher 198 and has a pair of rollers 201 which assist in supporting the stack. A plate is released by the arms as the slider moves to the left, Fig. 6, and then pushed in its place off lugs 160a at the base of the two left guides 161 by the pusher 198 as the slider makes a movement to the right. Its right end passes beneath a fixed strip 196 and it is held cantilevered over the rollers 201 until the latter move with the slider to its extreme right position. The plate then tilts on to the belt 119 and drops between two bags. Bags and plates pass under a belt 209, Fig. 4, into a **holder** which is lowered progressively by chain conveyers 223 in a guide 221 until it comes to rest on a platform 231. The platform then tilts to deposit the loaded **holder** on a conveyor 236 which removes it to the compressing means where the cover 104 is applied and forced down by a ram. The **holder** is then transferred to the vacuum chamber.

Classifications:
International (IPC 8-9): B65B43/44 (Advanced/Invention);
B65B43/42 (Core/Invention)
International (IPC 1-7): B65B43/44
CPC: B65B43/44
European: B65B43/44



Family:

Publication number	Publication date	Application number	Application date
GB1052298 A	00000000		00000000

Title: Filling and capping machine

Abstract: Source: US1913743A I claim: - 1. In a machine of the character described, the combination with an endless carrier, and a reciprocating element arranged to advance said carrier continuously in one direction step by step, of a cup **dispenser** for supplying /cups one by one to said carrier at each step taken thereby, comprising a cup **holder** for retaining a stack of nested cups, and a reciprocating member having a connection with the aforesaid reciprocating element to be operated by the latter to release cups one by one from the bottom of the stack upon each reciprocation of said member. 2. In a machine of the character described, the combination with an endless carrier, and a reciprocating element arranged to advance said carrier continuously in one direction step by step, of a cup **dispenser** for supplying cups one by one to said carrier at each step taken thereby, comprising a cup **holder** for retaining a stack of nested cups, and a reciprocating member having a connection with the aforesaid reciprocating element to be operated by the latter to release cups one by one from the bottom of the stack upon each reciprocation of said member, the connection between said member and said element being a resilient one for operation in one direction and a positive one for operation in the other direction. p 3. In a machine of the character described the combination with an endless carrier, and a reciprocating element arranged to advance said carrier continuously in one direction step by step, of a cup **dispenser** arranged to drop cups one by one onto said carrier at each step taken thereby, comprising a **holder** to retain a stack of nested cups, a slide operating in said **holder** beneath the stack of cups arranged when moved in one direction to segregate the bottom cup of the stack and when moved in the other direction "to release the segregated cup and to retain the next cup thereabove, and means providing an operating connection between said slide and said reciprocating element. 4. In a machine of the character described, an endless carrier for feeding cups to be filled, a reciprocating element for advancing said carrier step by step continuously in one direction. a **holder** to receive a stack of caps for application to the cups, and a reciprocating member for dispensing caps from said **holder** one by one having an operating connection with the aforesaid reciprocating element. 5. In a machine of the character described, a horizontal elongated supporting frame providing ways thereon, an endless belt type conveyor operating from end to end of said frame, the conveyor being adapted to have receptacles thereon, like cups, adapted to be filled and requiring capping, a horizontally reciprocating element for advancing the conveyor step by step progressively toward one end of said frame, a **holder** containing caps, another horizontally reciprocating element operatively connected with the other reciprocating element for feeding, caps one by one in proper timed relation to the step by step movement of the conveyor, and means for applying the caps to the cups. 6. In a machine of the character described, a carrier for feeding cups one by one in a step by step movement to be filled, means for advancing the carrier step by step progressively in one direction, a dispensing cylinder, a piston operating up and down in said cylinder to discharge material therefrom into said cups, a plunger operating up and down and serving by operation on the carrier to insure accurate positioning of the cups at each advance thereof, and a single **device** operating up and down having connection with said piston for operating the same- and also arranged to operate said plunger. » 7. In a machine of the character described, a carrier for feeding cups one by one in a step by step movement to be filled, a dispensing cylinder, a piston operating up and down in said cylinder to discharge material therefrom into said cups, a **holder** for caps to be applied to said cups, means for dispensing caps one by one for application to the cups, a plunger operating up and down for applying the caps to the cups, means for advancing the carrier step by step progressively in one direction, another plunger operating up and down and serving at each step to operate on the carrier to insure accurately indexed position thereof, and a single means operating up and down having connection with said piston for operating the same and also arranged to operate said plungers. 8. In a machine of the character described, a carrier for feeding cups one by one in a step by step movement to be filled, a horizontally reciprocating element for advancing the carrier step by step progressively in one direction, a dispensing cylinder, a piston operating up and down in said cylinder to discharge material therefrom into said cups, a **holder** for caps to be applied to said cups, another horizontally reciprocating element for dispensing caps one by one for application to the cups, the said reciprocating elements operating in timed relation with one another, a plunger operating up and down for applying the caps to the cups, and a single means operating up and down having connection with said piston for operating the same and also operatively connected with said plunger. 9. In a machine of the character described, an endless carrier arranged to be fed step by step continuously in one direction for feeding cups, means for filling the cups, a **holder** for caps, means for dispensing caps from said **holder** one by one in timed relation to the step by step movement of said carrier to feed a cap for each cup, a plunger for applying the caps to the cups, and means operating up and down arranged to position a cup in exact register with the plunger for capping and arranged to operate said plunger to apply the caps to the cups. 10. In a machine of the character described, an endless carrier moving step by step continuously in one direction, a reciprocating element for advancing said carrier, a cup **holder**, a cap **holder**, means for dispensing material into said cups, a reciprocating cup **dispenser** for said cup **holder**, a reciprocating cap **dispenser** for said cap **holder**, and connections for said cup and cap **dispensers** with said first mentioned reciprocating element for operating said **dispensers** therewith. V 11. In a machine of the character described, an endless carrier for feeding cups, a reciprocating element arranged to advance the carrier step by step progressively in one direction, a reciprocating dispensing valve for dispensing material into said cups, a cup **holder**, a cap **holder**, a reciprocating cup **dispenser** for said cup **holder**, a reciprocating cap **dispenser** for said cap **holder**, and means for connecting certain of said **dispensers** with the reciprocating element for operation thereby in timed relation therewith, all of said **dispensers** being operated in a predetermined timed relation with one another. 12. In a machine of the character described, an endless carrier for feeding cups to be filled, a horizontally reciprocating carrier advancer, a cup **holder**, a reciprocating cup **dispenser** for said **holder**, a cap **holder**, a reciprocating cap **dispenser** for said **holder**, means for operating said reciprocating cup and cap **dispensers** and the reciprocating advancer in a predetermined timed relation, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, and means for operating said dispensing and cap applying plungers together. 13. In a machine of the character described, an endless carrier for feeding cups to be filled, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a cap **holder**, a reciprocating cap **dispenser** in said **holder**, means for operating said cup and cap **dispensers** in timed relation, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, a vertically operating member for registering a cup to be capped with the capping plunger, and a common means operating vertically arranged to operate said member together with said dispensing and cap applying plungers. 14. In a machine of the character described, an endless carrier for feeding cups to be filled, a horizontally reciprocating element for advancing said carrier step by step continuously in one direction, a cup **holder**, a horizontally reciprocating cup **dispenser** in said **holder**, a cap **holder**, a horizontally reciprocating cap **dispenser** in said **holder**, means for operating said cup and cap **dispensers** and said carrier advancing element together, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, a vertically operating member for registering a cup to be capped with the capping plunger, and a common means operating vertically arranged to operate said member together with said dispensing and cap applying plungers. 15. In a machine of the character described, an endless carrier for feeding cups to be filled, a horizontally reciprocating element for advancing said carrier step by step continuously in one direction, a cup **holder**, a horizontally reciprocating cup **dispenser** in said **holder**, a cap **holder**, a horizontally reciprocating cap **dispenser** in said **holder**, means for operating said cup and cap **dispensers** and said carrier advancing element together, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, a vertically operating member for registering a cup to be capped with the capping plunger, and a common means operating vertically arranged to operate said member together with said dispensing and cap applying plungers. 16. In a machine of the character described, an endless carrier operating therein for feeding cups to be filled, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a cap **holder**, a reciprocating cap **dispenser** in said **holder**, means for operating said cup and cap **dispensers** and said carrier advancing element together, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, a vertically operating member for registering a cup to be capped with the capping plunger, and a common means operating vertically arranged to operate said member together with said dispensing and cap applying plungers. 17. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a cap **holder**, a reciprocating cap **dispenser** in said **holder**, a power shaft in said frame, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, operating connections between said **dispensers** and said slide, a reciprocating element for advancing said carrier step by step in one direction, and an operating connection between said element and said slide. 18. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, and operating connections between said slide and said cup **dispenser**. 19. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a cap **holder**, a reciprocating cap **dispenser** in said **holder**, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, and operating connections between said slide and said cup and cap **dispensers**. 20. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, operating connections between said slide and said cup **dispenser**, a reciprocating element for advancing said carrier in said frame step by step in one direction, and an operating connection between said element and said slide. c 21. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, a cup **holder**, a reciprocating cup **dispenser** in said **holder**, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, operating connections between said slide and said cup and cap **dispensers**, a reciprocating element for advancing said carrier in said frame step by step in one direction, and an operating connection between said element and said slide. 22. In a machine of the character described, a frame, an endless carrier operating in said frame for feeding cups to be filled, a dispensing cylinder, a vertically reciprocating plunger operating in said cylinder for dispensing material therefrom into said cups, a vertically reciprocating cap applying plunger, a vertically reciprocating member for registering a cup to be capped with said capping plunger, a single vertically reciprocating means for operating said member together with said plungers, a power shaft in said frame, and an operating connection between said shaft and said vertically reciprocating means for reciprocating the latter in the rotation of the former. 23. In a machine of the character described, a frame, an endless carrier operating in said frame for feeding cups to be filled, a dispensing cylinder, a vertically reciprocating plunger operating in said cylinder for dispensing material therefrom into said cups, a vertically reciprocating cap applying plunger, a single vertically reciprocating means for operating said plungers together, a power shaft in said frame, an operating connection between said vertically reciprocating means and said shaft for reciprocating the former in the rotation of the latter, a

horizontally reciprocating slide valve for controlling the discharge from said cylinder, and an operating connection between said slide valve and said shaft for reciprocating the former in the rotation of the hiter. 24. In a machine of the character described, a frame, an endless carrier operating in said frame for feeding cups to be filled, a dispensing cylinder, a vertically reciprocating plunger operating in said cylinder for dispensing material therefrom into said cups, a vertically reciprocating cap applying plunger, a single vertically reciprocating means for operating said plungers together, a power shaft in said frame, an operating connection between said vertically reciprocating means and said shaft for reciprocating the former in the rotation of the latter, a horizontally reciprocating element for advancing said carrier step by step in one direction, and an operating connection between said element and said shaft for reciprocating the former in the rotation of the latter. 25. In a machine of the character described, a frame, an endless carrier operating in said frame for feeding cups to be filled, a dispensing cylinder, a vertically reciprocating plunger operating in said cylinder for dispensing material therefrom into said cups, a vertically reciprocating cap applying plunger, a single vertically reciprocating means for operating said plungers together, a power shaft in said frame, an operating connection between said vertically reciprocating means and said shaft for reciprocating the former in the rotation of the latter, cup dispensing and cap dispensing means, a reciprocating slide having connections with said **dispensers** to operate the same together, and an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter. 26. In a machine of the character described, a frame, an endless carrier operating in said frame for feeding cups to be filled, a dispensing cylinder, a vertically reciprocating plunger operating in said cylinder for dispensing material therefrom into said cups, a vertically reciprocating cap applying plunger, a single vertically reciprocating means for operating said plungers together, a power shaft in said frame, an operating connection between said vertically reciprocating means and said shaft for reciprocating the former in the rotation of the latter, a horizontally reciprocating element for advancing said carrier step by step in one direction, a slide operating in said frame, a cup **holder**, a horizontally reciprocating cup **dispenser** operating in said holder, a cap **holder**, a horizontally reciprocating cap **dispenser** in said **holder**, connections between said slide and said reciprocating element and each of said dispensers for operating the same together, and an operating connection between said slide and said power shaft for reciprocating the former in the rotation of the latter. 27. In a machine of the character described, comprising a frame and an endless link belt carrier operating from end to end of said frame for feeding cups to be filled, said links each supporting a cup in an opening therein, means for advancing said carrier link by link, a reciprocating element at the end of said frame moving from one terminal position to another, the movement of said element to one terminal position serving to raise a cup out of its opening in the carrier, the cup being thereafter supported in such raised position and so conveyed in the movement of said reciprocating element to the other terminal position, the cup in the latter position of said element being "free of the carrier and extended from the frame, and means for receiving the cups from the reciprocating element." 28. In a machine of the character described comprising a frame and an endless linked belt carrier composed of perforated plates each arranged to support; a cup in its opening by a guide rim thereon, the said carrier being arranged to convey the cups on one flight thereof toward one end of the frame, means for advancing said carrier link by link progressively in one direction, a reciprocating element comprising an inclined bottom portion arranged in the movement of said element to its one terminal position to raise the cup by engagement with the bottom thereof out of its opening, and a top portion arranged at the same time to hold the cup on the lower portion by engagement with the top thereof, said element being arranged in the movement from the last mentioned terminal position to its other terminal position to convey the cup free of the carrier and extend the same from the end of the frame, the perforated plates of said carrier being arranged in turning at the end of the frame from the top flight to the lower flight to receive the lower portion of said element in the openings thereof whereby to permit extension of said element from the end of the frame, and means for receiving cups from said element. 29. In a cup filling and capping machine, an endless cup carrier, a cup **holder**, means for dispensing cups therefrom one by one to said carrier, a hopper for the material to be dispensed, means for dispensing material therefrom into the cups in said carrier in succession, a cup **holder**, means for dispensing cups one by one from said **holder**, means to apply the dispensed caps to said cups in succession, a source of power for operating all of the above means, a clutch for transmitting the power to said means arranged to be disengaged in the event of excessive resistance to operation of the carrier or any one of said means, and a stop **device** normally held in inoperative position by cups feeding past the same on the carrier but arranged in the event of a failure of a cup supply or in the event the cup **dispenser** otherwise fails to operate to move to operative position and interfere with the operation of one of the above-mentioned parts and thereby effect disengagement of the clutch. 30. In a machine of the character described, an endless carrier for feeding cups, a reciprocating element for advancing said carrier step by step continuously in one direction, a **holder** to receive a stack of caps for application to the cups, a reciprocating member for dispensing caps from said holder one by one having an operating connection with the aforesaid reciprocating element, and reciprocating means arranged to raise the cups out, of their position in the carrier after the same have received caps, said reciprocating means also having an operating connection with the aforesaid reciprocating element. 31. In a machine of the character described, an endless carrier for feeding cups to be filled, means for dispensing cups one by one to said carrier, a cap **holder**, a horizontally reciprocating cap **dispenser** in said **holder**, means for operating said cap **dispenser**, said cup and cap dispensing means being operated in timed relation to one another, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, a vertically operating carrier registering plunger, and means for operating said dispensing, registering and cap applying plungers together. 32. In a machine of the character described, an endless carrier for feeding cups to be filled, a horizontally reciprocating element for advancing said carrier step by step continuously in one direction, means for dispensing cups one by one to said carrier, said cup dispensing means being operated in timed relation to the advancing of the carrier, a cap **holder**, a horizontally reciprocating cap **dispenser** in said **holder**, means for operating said cap **dispenser** and said carrier advancing element together, a dispensing cylinder, a vertically operating plunger for dispensing material therefrom, a vertically operating cap applying plunger, and means for operating said dispensing and cap applying plungers together. 33. A machine as set forth in claim 31 including a horizontally reciprocating **device** for raising the cups out of position in the carrier after the caps have been applied, said **device** being operated with said cap **dispenser**. 34. A machine as set forth in claim 32, including a horizontally reciprocating **device** for raising the cups out of position in the carrier after the same have been applied, said **device** being operated with the cup **dispenser** and carrier advancing element. 35. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, means for dispensing cups one by one to said carrier, a cap **holder**, a reciprocating cap **dispenser** in said **holder**, a reciprocating slide valve operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, and operating connections between said slide and said cap **dispenser**, said cup dispensing means being operated in timed relation to the cap **dispenser**. 36. In a machine of the character described, a frame, an endless carrier operating therein for feeding cups to be filled, a dispensing cylinder, a reciprocating slide valve controlling the discharge therefrom, a power shaft in said frame, an operating connection between said shaft and said valve for reciprocating the latter in the rotation of the former, means for dispensing cups one by one to said carrier, a reciprocating slide valve operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, a reciprocating element for advancing said carrier in said frame step by step in one direction, and an operating connection between said element and said slide, the cup dispensing means being operated in timed relation to the step by step advancing of the carrier. 37. A machine as set forth in claim 36 including a reciprocating **device** for raising the cups out of their position in the carrier after the same have been filled, said **device** having an operating connection with the last mentioned reciprocating slide, whereby to be operated in proper relation to the step by step advancing of the carrier. 38. In a machine of the character described, the combination with an endless carrier arranged to be advanced progressively in one direction step by step so as to feed cups to be filled and subsequently capped, of a material **dispenser**, a reciprocating valve for dispensing material from said **dispenser** into said cups, the said valve being operated in timed relation to the step by step advancing of the carrier, a hopper, a reciprocating element for feeding cups one by one from said **holder** to the cups, said last mentioned reciprocating element being operated in timed relation with the reciprocating valve and with the step by step movement of the carrier, means for applying the caps to the cups, and a reciprocating **device** operatively connected with the reciprocating cap feeding element to operate in a predetermined time relation therewith, said **device** being arranged in the movement thereof to one of its terminal positions to raise the cups off the carrier and in the movement thereof to the other terminal position to convey the same away from the carrier. 39. In a machine of the character described, the combination with an endless carrier arranged to be advanced progressively in one direction step by step so as to feed cups to be filled and subsequently capped, of a material **dispenser**, a reciprocating valve for dispensing material from said **dispenser** into said cups, the said valve being operated in timed relation to the step by step advancing of the carrier, a reciprocating valve for dispensing material from said **dispenser** into said cups, the said valve being operated in timed relation to the step by step advancing of the carrier, a cap **holder**, a reciprocating element for feeding cups one by one from said **holder** to the cups, said last mentioned reciprocating element being operated in timed relation with the reciprocating valve and with the step by step movement of the carrier, means for applying the caps to the cups, wherein the last mentioned means comprising a cap plunger operating up and down in timed relation to the step by step movement of the carrier, and another plunger also moving up and down in timed relation to the last mentioned plunger serving by operation on the carrier to jog the same one way or the other from the position to which the same has been advanced whereby accurately to index the same at each step by step advancement thereof to insure proper application of the caps to the cups. 40. In a machine of the character described, the combination with an endless carrier and a reciprocating element arranged to advance the carrier step by step progressively in one direction, of a cup **dispenser** for supplying cups one by one to said carrier at each step and thereby comprising a reciprocating member operatively connected with the aforesaid reciprocating element or operation therewith in a predetermined timed relation. 1.43: A machine as set forth in claim 40 including a material **dispenser** and a reciprocating dispensing valve for discharging material into said cups, said valve being operated in timed relation with the reciprocating element and reciprocating member and with the step, by step movement of the carrier. 42. In a machine of the character described, the combination of an elongated supporting frame providing ways thereon, an endless belt type conveyor operating on said ways from end to end of said frame and adapted to guide cups thereon at one end of said frame to the other end thereby, a reciprocating element cooperating with said conveyor to advance the same step by step in one direction, a hopper for material to be dispensed mounted intermediate its ends across said conveyor, a reciprocating valve for said hopper or dispensing material into the cups, and a reciprocating cap feeder for the **holder** arranged to feed caps one by one to the cups, said cap feeder being operated in timed relation with the reciprocating valve, and one of the two last mentioned reciprocating parts being operatively connected with the first mentioned reciprocating element whereby the operations of dispensing and cap feeding are in timed relation to the movement of the conveyor. 43. A machine as set forth in claim 42 including a vertically reciprocating plunger for applying the caps to the cups, said plunger being operated in a timed relation with the other reciprocating elements, and another plunger reciprocating vertically like the last mentioned plunger and in timed relation therewith, said last mentioned plunger being arranged to operate on the conveyor accurately to index the same at each step by step advancement thereof whereby to insure proper application of the caps to the cups. 44. A machine as set forth in claim 42 including a vertically reciprocating plunger for applying the cups to the cups, said plunger being operated in a timed relation with the other reciprocating elements, another plunger reciprocating vertically like the last mentioned plunger and in timed relation therewith, said last mentioned plunger being arranged to operate on the conveyor accurately to index the same at each step by step advancement thereof whereby to insure proper application of the caps to the cups, and a reciprocating dispensing plunger for the hopper operated in timed relation with the reciprocating valve for discharging material from the hopper. 45. A machine as set forth in claim 42 including a vertically reciprocating dispensing plunger for the hopper operated in timed relation with the reciprocating valve, and another vertically reciprocating plunger operated in time relation with the dispensing plunger and arranged by operation on the conveyor accurately to index the

same at each step by step advancement thereof. ' _ 46. A machine as set forth in claim 42 including a reciprocating **device** at the discharge end of the frame operatively connected with the cap feeder so as to operate in a predetermined timed relation therewith, said **device** in moving to one terminal position being arranged to pick up the cups off the conveyor and in the movement thereof to the other terminal position to convey the same away for removal from the machine. 47. In a machine of the character described, the combination of an elongated frame providing longitudinal guideways thereon, an endless carrier operating on said guideways endwise of the frame and arranged to have receptacles, such as cups, carried thereby, the said cups being arranged to be placed on the carrier at one end of the frame, a hopper for the material to be dispensed disposed over said carrier intermediate the ends of the frame, a reciprocating element on the frame cooperating with the carrier to advance the latter step by step in one direction, a transverse cam shaft in said frame below the hopper and arranged to be continuously driven, a cam on said shaft for communicating the reciprocation to the reciprocating element, whereby to advance the carrier at regular intervals, a vertically reciprocating piston associated with the hopper for discharging measured amounts of material from the hopper, and an eccentric on said shaft having a connecting rod fitting thereon and connected with the piston for operating the same in timed relation with the advancement of the carrier. _ 48. In a machine of the character described, the combination of an elongated frame providing longitudinal guideways thereon, an endless carrier operating on said guideways endwise of the frame and arranged \ _ _ to have receptacles, _such as cups, carried thereby, the said cups being arranged to be placed on the carrier at one end of the frame, a hopper for the material to be dispensed disposed over said carrier intermediate the ends of the frame, a reciprocating element on the frame cooperating with the carrier to advance the latter step by step in one direction, a reciprocating valve for dispensing material from the hopper, said valve being ,operated in timed relation with the aforesaid reciprocating element, a cap container at the outlet end of said frame disposed over the carrier, and a reciprocating cap **dispenser** for said container operatively connected with the aforesaid reciprocating element whereby to operate in a predetermined timed relation therewith. 49. A machine as set forth in claim 48, including a single control shaft mounted transversely in said frame beneath the hopper, said shaft having a cam thereon for operating the reciprocating element, and said machine further including a vertically reciprocating piston for discharging material from the hopper, and an eccentric on said shaft having a connecting rod bearing thereon and connected with said piston for operating the latter in a predetermined timed relation with the advancement of the carrier. 50. In a machine of the character described, the combination of an elongated frame providing longitudinal guideways thereon, an endless carrier operating on said guideway endwise of the frame and arranged to have receptacles, such as cups, carried thereby, a hopper for the material to be dispensed disposed over said carrier intermediate the ends of the frame, a reciprocating element on the frame cooperating with the carrier to advance the latter step by step in one direction, a reciprocating valve for dispensing material from said hopper, said valve being operated in timed relation with the aforesaid reciprocating element, and a cup **dispenser** disposed over the carrier at the one end of said frame and arranged upon each operation to dispense one cup, said **dispenser** being operatively connected with the aforesaid reciprocating element whereby to operate in a predetermined timed relation therewith. 51. A machine as set forth in claim 50, including a cap container disposed over the carrier at the other end of said frame, and a reciprocating cap **dispenser** operatively connected with the reciprocating element whereby _y to operate in a predetermined timed relation therewith. 52. A machine as set forth in claim 50, including a single control shaft disposed transversely in said frame beneath the hopper, said shaft having a cam thereon for operating the reciprocating element, a vertically reciprocating piston in said hopper for discharging material therefrom, and an eccentric on said shaft having a connecting rod bearing thereon and connected with said piston whereby to operate the piston in timed relation with the advancement of the carrier. 53. In a machine of the character described, the combination of an elongated frame providing longitudinal guideways thereon, an endless carrier operating on said guideway endwise of the frame and arranged to have receptacles, such as cups, carried thereby, the said cups being arranged to be placed on the carrier at one end of the frame, a hopper for the material to be dispensed disposed over said carrier intermediate the ends of the frame, a reciprocating element on the frame cooperating with the carrier to advance the latter step by step in one direction, a reciprocating valve for dispensing material from the hopper, said valve being operated in timed relation with the aforesaid reciprocating element, and a second reciprocating element at the outlet end of the frame having a portion thereof arranged in the movement of said element to its one terminal position to engage the end-most cup on the carrier and raise it clear of the carrier, said element in the movement thereof to its other terminal position serving to convey the cup off the carrier and extend the same from the end of the frame for reception by a suitable receiver, said second reciprocating element being operatively connected with the first reciprocating element for operation in a predetermined timed relation therewith. 54. A machine as set forth in claim 53, including a reciprocating cup **dispenser** disposed over the carrier at the opposite end of said frame, said **dispenser** being operatively connected with the first mentioned reciprocating element whereby the same is arranged to be operated in a predetermined timed relation therewith. 55. In a machine of the character described, an endless carrier arranged to be fed step by step continuously in one direction, means for dispensing cups or the like one by one to said carrier in timed relation with its step by step operation, means for filling the cups, cap dispensing means arranged to be operated in timed relation with the other means so as to feed a cap for each cup, cap applying means, and means arranged to be operated after each step by step advancement of the carrier to jog the carrier one way or the other whereby to accurately position the same properly with respect to the cup dispensing, means, filling means, and cap applying means. 56. In a machine of the character described, an endless carrier arranged to be fed step by step continuously in one direction for feeding cups or other receptacles to be capped, cap dispensing means operated in timed relation to the step by step movement of the carrier to feed a cap for each cup, cap applying means, and means arranged to be operated after each step by step advancement of the carrier to jog the carrier one way or the other whereby to accurately position the same properly with respect to the cap applying means. ' 57. In a machine of the character described, an endless carrier arranged to be fed step by step continuously in one direction for feeding cups or other receptacles to be filled and capped, means for filling the cups, said means being operated in timed relation with the step by step movement of the carrier to fill the cups between movements of the carrier, cap dispensing means, said means being operated in timed relation with the movement of the carrier to feed a cap for each cup, cap applying means, and means arranged to be operated after each step by step advancement of the carrier to jog the carrier one way or the other whereby to accurately position the same properly with respect to the filling means and cap applying means. 58. In an automatic machine, such as a filling and capping machine, the combination of an endless carrier arranged to be fed step by step continuously in one direction, means for advancing the carrier step by step, and means arranged to be operated after each step by step advancement of the carrier to jog the carrier one way or the other whereby to accurately position the same properly. 59. In a machine of the character described, a frame, an endless carrier operating thereon for feeding cups to be filled, a reciprocating cup **dispenser**, a reciprocating cap **dispenser**, a power shaft in said frame, a reciprocating slide operating in said frame, an operating connection between said slide and said shaft for reciprocating the former in the rotation of the latter, the reciprocating cup and cap **dispensers** being operated in timed relation to one another and to the advancement of the carrier, and operating connections between at least one of said **dispensers** and said slide. » 60. A machine as set forth in claim 59 including an operating connection between the carrier and the slide, said connection being so constructed whereby movement is communicated to the carrier in the movement of the slide in one direction, the slide in its movement in the other direction being arranged to operate the **dispenser** connected therewith. 61. In an automatic machine, such as a filling and capping machine, the combination of an endless carrier arranged to be advanced continuously in one direction for feeding cups or the like for filling or capping, or both, means for advancing the carrier step by step, there being other means for the filling or capping operations operated in timed relation with the advancement of the carrier, a source of power for operating all of the above so as to so no means, a clutch for transmitting the power to said means arranged to be disengaged in the event of excessive resistance to operation of the carrier, and a stop **device** normally held in inoperative position by cups or the like feeding past the same on the carrier, but arranged to move to operative position and interfere with the operation of the carrier and thereby affect disengagement of the clutch. _ 62. In an automatic machine of the character described, the combination of an endless carrier arranged to be advanced continuously in one direction for feeding articles, means for advancing the carrier, a source of power for operating said means, a clutch for transmitting the power to said means arranged to be disengaged in the event of excessive resistance to operation of the carrier, and a stop **device** normally held in inoperative position by the articles feeding past the same on the carrier but arranged in the absence of an article to move to operative position and interfere with the normal operation of the carrier and thereby affect disengagement of the clutch. 63. In a machine of the character described, means for feeding cups or the like one by one in a step by step movement to be capped, cap feeding means arranged to feed one cap for each cup, a capper for applying the caps to the cups, a **device** operating up and down and arranged upon each downward movement to register a cup in a predetermined desired position in proper alignment with the capper for good application of the cap to the cup, and means for operating said **device** in timed relation to the operation of the cup feeding means so that the downward movement of the **device** occurs after each advancement of the cups, said capper also operating up and down like the cup registering **device**, the two being operated by the same means, and said registering **device** being in leading relation to the capper so as to insure proper registration of the cup prior to the capping operation. 64. In a filling and capping machine of the character described, cup dispensing means arranged to deliver one cup or the like at a time, cup feeding means for advancing the cups in the machine step by step, filling means, capping means beyond the filling means in relation to the direction of movement of the cup feeding means, whereby the cups after being filled are arranged to be capped one by one, a source of power having connection with all of said means for normally operating the same in a predetermined timed relation to one another, and a **device** between the cup dispensing means and the filling means arranged to engage each cup before its delivery to the filling means, said **device** being thereby normally held in inoperative position but being arranged in the absence of a cup to move to operative position and stop the operation of the machine by the power source. 65. In a machine of the character described, cup dispensing means arranged to deliver one cup or the like at a time, cup feeding means for advancing the cup in the machine step by step, filling means, a source of power having connection with all of said means for normally operating the same in a predetermined timed relation to one another, and a **device** between the cup dispensing means and the filling means arranged to engage each cup before its delivery to the filling means, said **device** being thereby normally held in inoperative position but being arranged in the absence of a cup to move to operative position and stop the operation of the machine by the power source. 66. In a machine of the class described, the combination of means for feeding cups or the like step by step in one direction, capping means for applying caps one by one to the cups, a power source for normally operating said means in a predetermined timed relation, and a **device** disposed so as to engage each cup prior to its delivery to the capping means, said **device** being thereby normally held in an inoperative position but being arranged in the absence of a cup to move to operative position and stop the operation of the machine by the power source. 67. In a machine of the class described, the combination with means for feeding cups or the like horizontally to a capping station, of cup feeding means serving to deliver one cap or each cup a cap registering plunger, a cap applying plunger, and a single operating part reciprocating substantially vertically and having the two plungers thereon in such relation to one another that the registering plunger is arranged to first jog the cup one way or the other from the position to which the same has been advanced by the cup feeding means whereby to bring the same into a predetermined position for capping, whereupon the cap applying plunger is arranged to apply the cap to the cup. 68. In a **device** for capping cups or other containers made of paper or similar material and having an annular internal shoulder at the capping end to receive a cap thereon, means for supporting a cup externally at its capping end in the plane of the aforesaid internal shoulder whereby to prevent damage to the cup in the application of a cap, and a capping plunger operable in register with said means. 69. In a capper, the combination of a supporting plate having a circular opening therein to receive a container to be capped, the container having an outwardly projecting rim or bead at the capping end and the circular opening in the plate being of such a size that the rim or bead will rest on the plate, whereby to permit application of a cap under pressure into the capping end of the container disposed in the opening and means registering with the opening in the plate for pressing a cap into position in the container. 70. In a capper for applying tabbed caps of paper or similar material to containers made of paper or similar

material each having an annular rim or bead at the capping en , means for supporting a container externall of the capping end adjacent the rim or bead' and in the vicinity where the tab of the cap comes in capping, whereby _to revent damaging the container in the application of a tabbed cap thereto and cause t e bending up of the tab, and a capping plunger operable in register with said means. In witness of the foregoing I ailix my signature

Classifications:

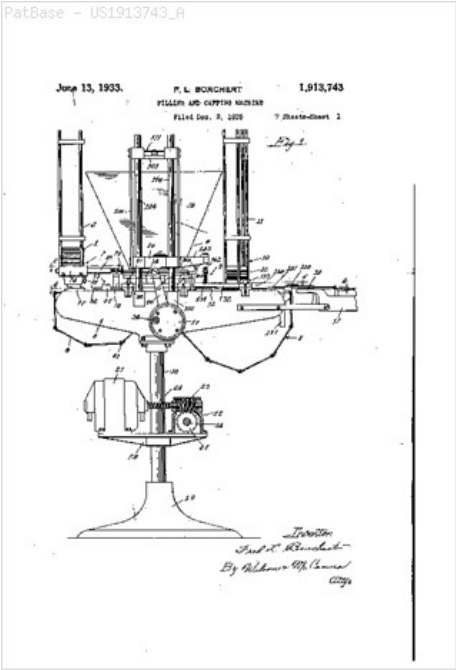
International (IPC 8-9): A23G9/28 B65B3/32 B65B57/08 G07F13/10 G07F9/10 (Advanced/Invention)

International (IPC 1-7): A23G9/28 B65B3/32 B65B57/08 B67C7/00

CPC: B65B3/32 B65B57/08 G07F13/10 G07F17/0071 A23G9/286

European: A23G9/28F B65B3/32 B65B57/08 G07F13/10 G07F17/00F2

US: 141/103 141/165 141/174 141/183 222/309 53/282



Family:

Publication number	Publication date	Application number	Application date
US1791611 A	19310210	US19270199971	19270620
US1913743 A	19330613	US19250072618	19251202

Priority:

US19250072618 19251202 US19270199971 19270620

Assignee(s): (std): BORCHERT FRED L

Inventor(s): (std): BORCHERT FRED L

Title: TAPE DISPENSER AND APPLIER

Abstract: Source: US2532596A (Claim 1) 1. A machine for holding, a roll of pressure sensitive tape and applying desired lengths of such tape to a work surface, said machine comprising a housing having a mouth, means for supporting said roll in said housing so that tape may be paid out, said housing having a portion defining a forward end of said mouth, said portion and work surface defining a plane, means carried by said housing adjacent the rear end of the mouth for pressing tape against the work surface, a cutter within the housing extending transversely of said housing near the rear portion of the mouth, said cutter having teeth some of which are at least one inch long with the teeth pointing generally toward the tape supply, spring means cooperating with the teeth so that the free cut end of the tape is retained in position against the teeth in preparation for a new cutting and tape dispensing cycle, a tape applier having at least an edge for cooperation with the non-adhesive side of tape, means for mounting said applier so that it normally rests well within the housing remote from the work surface but is freely movable to an active position toward the work surface so that the applying edge reaches the plane of the housing mouth at a joint between the forward end of the mouth and the projection of the teeth upon the mouth, said tape applier being adapted to deflect the tape out of a tension span extending between the tape roll and teeth and into contact with the work surface, said tape applier when returned to a normal position at the end of a tape applying operation allowing the tape to assume a tension span and thus force the tape against the cutter teeth during forward movement of the machine to result in severance of the tape.

Classifications:

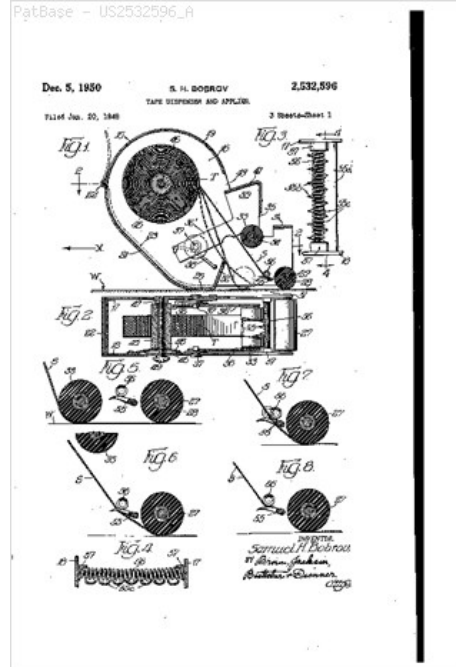
International (IPC 8-9): B65B51/06 B65H35/00 B65H35/07 (Advanced/Invention); B65B51/00 B65H35/00 B65H35/06 (Core/Invention)

International (IPC 1-7): B65B51/06 B65H35/00

CPC: B65B51/067 B65H35/0033 B65H35/008 Y10T156/1348

European: B65B51/06F B65H35/00B2B2 B65H35/00B6B

US: 156/523



Family:

Publication number	Publication date	Application number	Application date
US2532596 A	19501205	US19480003315	19480120

Priority:

US19480003315 19480120

Assignee(s): (std): BOBROV SAMUEL H

Inventor(s): (std): BOBROV SAMUEL H

Title: Confection packaging **apparatus**

Abstract: Source: US2796711A (Claim 1) 1. A machine for filling a succession of cups with iowable material contained in a hopper having dispensing nozzle means thrcrbelow, comprising in combination, a conveyor moving in step-by-step advancing fashion under said hopper, said conveyor having a surface portion adapted to receive in positionally indexed relation thereon a succession of open-top cartons for containing the cups to be filled, said cartons having slip-titted thereinto resilient horizontal partition **devices** apertured to accommodate in seated relation therein the cups to be niled, means for advancing said conveyor so as to bring said cup apertures successively into registration with said dispensing nozzle means, a cup dispensing mechanism mounted above said conveyor in advance of said hopper and comprising an empty cup magazine having empty cups in vertically stacked relation therein, gate incans operable for successive release of the lowermost cup from said vertical stack to fall by gravity therefrom, -means operable automatically to cause said cup-**dispenser** mechanism to move downwardly as said conveyor :brings said eartons into each successively new cup-receiving position so 'as to cause the lower end pordons of said cups to be thrust into said partition apertures while the lowermost cup is still held by said gate means, means operable automatically to thereupon actuate said gate means for gravity release of the lowermost 'of said stacked cups so as to cause said lowermost cup to thereby remain in seated position in said carton, a prcss bar carried by said cup-dispensing mechanism and movable therewith so as to simultaneously press downwardly upon said partition members for firmly seating them in said cartons as the cups arc dispensed thereinto, means -for actuating said material dispensing **devices** for subsequently filling said seated cups, means for subsequently dispensing any desired topping material into said cups, and means for subsequently capping said cups prior to discharge from the machine.

Classifications:

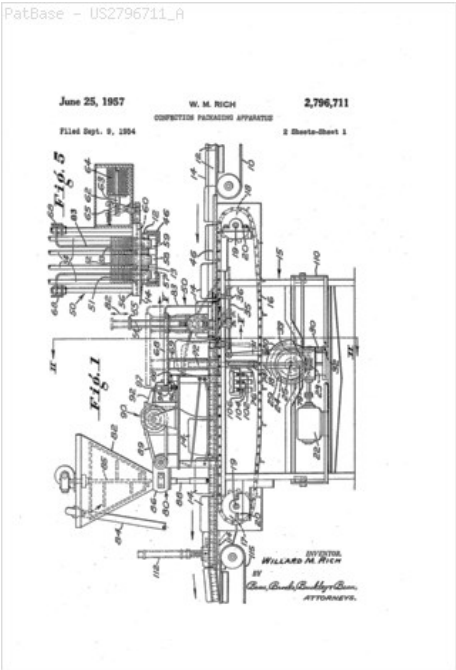
International (IPC 8-9): B65B43/44 B65B43/52 (Advanced/Invention); B65B43/42 (Core/Invention)

International (IPC 1-7): B65B43/44 B65B43/52

CPC: B65B43/44 B65B43/52

European: B65B43/44 B65B43/52

US: 221/209 221/93 53/171 53/246 53/281 53/77



Family:

Publication number	Publication date	Application number	Application date
US2796711 A	19570625	US19540455029	19540909

Priority:

US19540455029 19540909

Assignee(s): (std): RICH WILLARD M

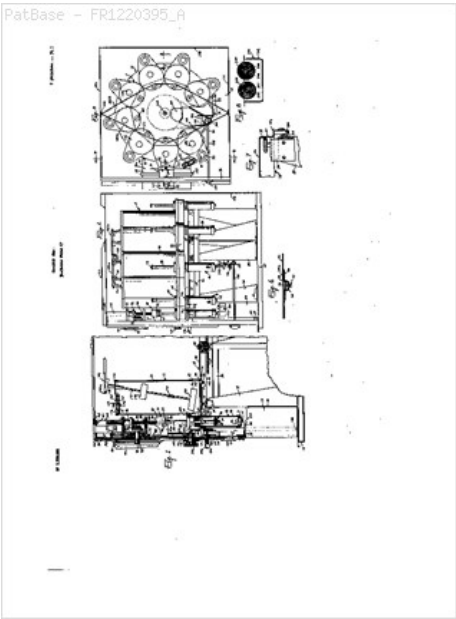
Inventor(s): (std): RICH WILLARD M

Title: Appareil distributeur de liquide Liquid **dispenser** (Machine translation)

Abstract: Source: FR1220395A (Claim 1) 1) ****ATTENTION**** debut du champ CLMS peut contenir fin de DESC ******. mises en rotation par intermittence pour agiter le contenu des reservoirs. L'appareil est de preference enferme et comprend des panneaux lateraux 191 et 192, un panneau superieur 193, un panneau anterieur 194 et un panneau posterieur 190. Afin de permettre de determiner facilement lequel des cylindres de dosage est situe au poste de distribution, une ouverture d'observation 199 est formee dans le panneau anterieur 194 et la plaque de support 21 au voisinage des cylindres de dosage 12 et chacun des cylindres est marque d'un signe approprie (voir fig.

Machine translation: (Claim 1) 1) **** WARNING **** start of CLMS field may contain end of DESC ******. intermittently rotated to stir the contents of the tanks. The **device** is preferably encloses and includes side panels 191 and 192, a top panel 193, a front panel 194 and a posterior panel 190. To enable to determine easily which of the metering cylinders is located at the dispensing station, a viewing aperture 199 is formed in the anterior panel 194 and the support plate 21 in the vicinity of the metering cylinders 12 and each cylinder is brand an appropriate sign (see Fig.

Classifications:
International (IPC 8-9): B65B39/00 (Advanced/Invention); B65B39/00 (Core/Invention)
International (IPC 1-7): B65B39/00 B67D5/02
CPC: B65B39/004
European: B65B39/00A3



Family:

Publication number	Publication date	Application number	Application date
FR1220395 A	19600524	FR19590787610	19590224

Priority:

19580224

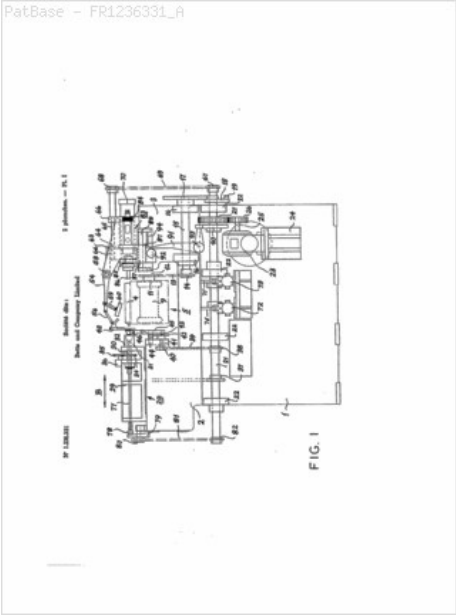
Assignee(s): (std): ROCKCOTE PAINT CO

Title: PROCEDE ET MACHINE POUR PLACER UN BOUCHON SUR L'OUVERTURE D'UN RECIPIENT METHOD AND MACHINE FOR PUTTING A CAP ON THE OPENING OF A CONTAINER (Machine translation)

Abstract: Source: FR1236331A (Claim 1) 1. Un procede pour boucher des recipients comportant une ouverture filetee, qui consiste a amener successivement les recipients simultanement dans l'axe d'un porte-bouchon et d'un dispositif de friction, a rapprocher le porte-bouchon du recipient de facon a mettre le bouchon en contact avec l'ouverture filetee, a deplacer l'organe de friction pour l'amener dans une position ou il empeche le recipient de tourner, et a faire tourner le porte-bouchon avec le bouchon qu'il contient, au moins lorsque le bouchon est en prise avec l'ouverture filetee du recipient.

Machine translation: (Claim 1) 1. A process to fill the containers with a threaded opening, which is to successively bring the containers simultaneously in the axis of a door-stopper and a friction **device**, the closer a cap **holder** of container to put the plug in contact with the threaded opening, to move the friction member to bring it into a position where it prevents the container from turning, and rotating the cap **holder** with the plug it contains, at least when the cap is engaged with the threaded opening of the container.

Classifications:
International (IPC 8-9): B65B7/14 (Advanced/Invention);
B65B7/00 (Core/Invention)
International (IPC 1-7): B65B7/14 B67B3/20
CPC: B65B7/14
European: B65B7/14



Family:

Publication number	Publication date	Application number	Application date
FR1236331 A	19600715	FR19590805668	19590921

Priority:
FR19590805668 19590921

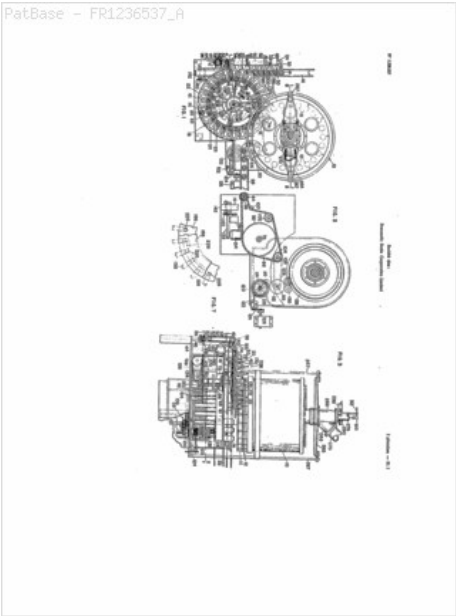
Assignee(s): (std): BETTS AND CO LTD ; BETTS AND COMPANY LTD
Assignee(s): BETTS AND COMPANY LIMITED

Title: Machine de remplissage sous vide Vacuum Filling Machine (Machine translation)

Abstract: Source: FR1236537A (Claim 1) ****ATTENTION**** debut du champ CLMS peut contenir fin de DESC **. le niveau de cette derniere au-dessous du passage de la lame palpeuse, a la suite de quoi l'alimentation en matiere recommence automatiquement. Il peut egalement etre prevu un dispositif permettant d'elever et d'abaisser de facon appropriee l'appareil de remplissage sous vide par rapport au plan horizontal du mecanisme de transport, de fa con a admettre des recipients de differente hauteur.

Machine translation: (Claim 1) CAUTION **** **** start of CLMS field may contain end of DESC **. The level of the latter below the passage of the safety edge, a result of which the supply of material automatically restarts. It may also be provided for a mechanism to raise and lower the **device** appropriately vacuum filling compared to the horizontal plane of the mechanism of transport, has fa con admit containers of different height.

Classifications:
International (IPC 8-9): B65B31/04 (Advanced/Invention)
International (IPC 1-7): B65B31/04
CPC: B65B31/044
European: B65B31/04D



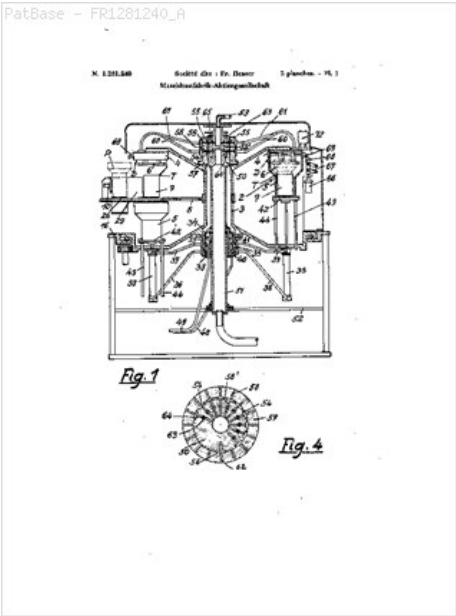
Family:			
Publication number	Publication date	Application number	Application date
FR1236537 A	19600722	FR19590796858	19590608
Priority:			
FR19590796858 19590608			
Assignee(s): (std): PNEUMATIC SCALE CORP			
Assignee(s): PNEUMATIC SCALE CORP LTD			

Title: Dispositif pour l'evacuation de l'air contenu dans des sachets d'emballage et l'introduction de gaz dans ces sachets, sur des machines de remplissage et de fermeture **Device** for the evacuation of the air bags in packaging and the introduction of gas into the bags on the filling machines and closing (Machine translation)

Abstract: Source: FR1281240A (Claim 1) ****ATTENTION**** debut du champ CLMS peut contenir fin de DESC ******. d'introduction d'un gaz, le joint du sachet P soit scelle par les machoires de scellement a chaud 6. Apres cette operation, les cloches sont a nouveau abaissees en vue du dechargement des receptacles transporteurs 7. Pour assurer un guidage irreprochable des clo- ches 5 pendant leur soulevement et leur abalsse- ment, des tiges de guidage 43 et 44 sont fixees sur les plateaux 42 sur lesquels lesdites cloches sont montees de facon amovible, lesdites tiges etant ellesmemes guidees dans des alesages du tambour 3. L'aspiration de l'air dans les sachets se trouvant dans les chambres 2, et le remplissage eventuel de ces sachets par un gaz de protection, sont commandes par une tete de commande 50 disposee au-dessus du tambour 3.

Machine translation: (Claim 1) **** WARNING **** start of CLMS field may contain end of DESC ******. Introduction of a gas, seal the bag P be sealed by the sealing jaws hot 6. After this operation, the bells are again lowered to the unloading of receptacles carriers 7. To provide guidance impeccable of clo-Ches 5 while lifting and abalsse -ment, guide rods 43 and 44 are fixed on 42 plates on which those bells are detachably mounted, said rods being ellesmemes Guided bores in the drum 3. The aspiration of air in the bags found in the two rooms, and the eventual filling of the bags by a shielding gas are orders by a control head 50 disposed above the drum 3.

Classifications:
International (IPC 8-9): B65B31/02 (Advanced/Invention)
International (IPC 1-7): B65B31/02
CPC: B65B31/022
European: B65B31/02D



Family:

Publication number	Publication date	Application number	Application date
FR1281240 A	19620112	FR19600822960	19600331

Priority:

FR19600822960 19600331

Assignee(s): (std): HESSER AG MASCHF

Assignee(s): HESSER MASCHF AG ; FR HESSER MASCHINENFABRIK AKTIENGESELLSCHAFT

Title: Weighing assembly

Abstract: Source: US3112806A (Claim 1) 1. In an assembly for weighing out and discharging measured and corrected quantities of pourable commodities and incorporating a pre-dispensing station served by a pre-dispenser, a weighing station served by a weigher, a weight make-up station served by a make-up device under the control of said weigher, and a discharge station, a conveyor for conducting commodity from station to station comprising a carrier ring rotatable in a vertical plane through said stations, means for intermittently rotating said carrier ring, a plurality of commodity holders detachably mounted on said carrier ring for travel there-with, said holders having open mouths and being mounted on said ring with said mouths facing radially outwards, means supporting said weigher within said ring at a position at which the holders reach the uppermost position thereof, said predispensing station being located behind the weigher relative to the direction of rotation of the ring while said weight make-up station is located ahead of the weigher relative to the direction of rotation of the ring, and means at said weighing station for detaching each of said holders from the carrier ring in turn at this station for resting each said holder on said weigher.

Classifications:

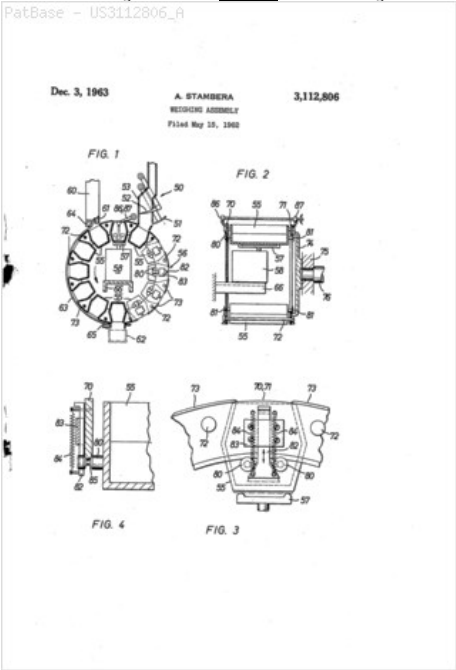
International (IPC 8-9): B65B1/32 G01G13/00 (Advanced/Invention)

International (IPC 1-7): B65B1/32 G01G15/02

CPC: B65B1/32 G01G13/00

European: B65B1/32 G01G13/00

US: 177/103 177/59 177/62 177/81 198/803.2



Family:

Publication number	Publication date	Application number	Application date
US3112806 A	19631203	US19620194923	19620515

Assignee(s): (std): HESSER AG MASCHF

Assignee(s): HESSER MASCHF AG ; FR HESSER MASCHINENFABRIK AKTIENGESSELLSCHAFT

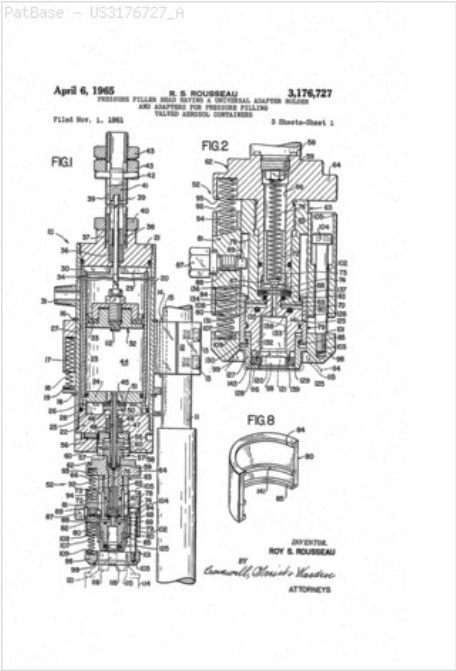
Inventor(s): (std): ADOLF STAMBERA

Inventor(s): STAMBERA ADOLF

Title: Pressure filler head having a universal adapter **holder** and adapters for pressure filling valved aerosol containers

Abstract: Source: US3176727A (Claim 1) A pressure fuler head for filling a metered quantity of pressurized fluid into an aerosol container through the valve ass-_mbly th-_roef comprising, a **dispenser** having a chamber of F,,redetermined size for receiving a m-_tered char-_e of fluid Linder pressure, a tubular adapter **holder** body dep-_nd;ng from said **dispenser** a-_id having a disc_i_,ir,-, pa_,sage extending therethrough wth its iipper epd op-_n to said ch_,imber, a normally closed discharge valve meriiber ir_ the lower end of said d_scharge passage, means for co_iinecting a sot:irce of fluid ur_,er pressure in contrubus compirn_'_e2ition witli said discoc_nser, m-,ars ineltiding a normally open valve at the upper end of said discharge pa_-sage for establish,'_ng said metered charge in said chamber iv'-Qeii the filler he_ad is out ofen.-ageni._nt wi,h a valved aerosol contain_er, an _-,dapter having means for seal;ng engageilicnt on a valved aerosol corilainer rer_lova_oly susp-_nded from-i the lower end of sf_,id ,idaoter **holder** body, said adapter being slid_ble on said **holder** body so, as to permit upward movenient of s-,dd adapter relai-'_ve to _said body, said adat)ter having a d,'_scharge passage extending therethrough a-_id commurlc_,iting with the lov/er end of said dischara passa-c in 6o _-aid a-'_ti3ter **holder** body, readily releasabl-_ me_ans for su_rondi-_ig said ad-,tpter from s-,id adtpter **holder** body, riie_,Liis tor closin.- thz valv- at the upper eiid of said disebar,-e, passageway and isolating said chamber and th_m-,tered ch_,ir-O thereiti from said fluid solirce upon initial rzz-iggement of the '_Uler head N_7ith the top of a valved arcosol conta-_ner, ,nd a ce-_itrally loc_tt-_d upsta-_iding steni 'd adan on sa, _er slidably received in th-_ lovrer end of saidclis_,hargp. passage in said adarter **holder** body and operable upon Lipwarcl mov-,r.-e-tit of said adapter relative to said adapter **holder** 'Uody _afte.- said adapt-Ir is scalin,-ly e-_igaged w_,Lh the top of an aerosol c6-_i_ainer f or e.,igaging aiid opening s_,i;d norm-ally clos-id e_i_.charge valve r.,i-niber in the lowei7 enct oi sa:ld discharge pas.s,igeway whereby aid metered c,iarge of p-ressuriz-d fluid is discharged 7 5 s lito the arcosol container through said adapter and the container valve ass6n-iblv.

Classifications:
International (IPC 8-9): B65B31/00 (Advanced/Invention);
B65B31/00 (Core/Invention)
International (IPC 1-7): B65B31/04
CPC: B65B31/003
European: B65B31/00A
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Family:

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