

Search history

Search CPC=(B65B35/56 or B65D71/16 or B67B3/04) (Results 1397)

1:

Search FT=(bottle positioning guide) (Results 2)

2:

Search FT=(bottle wash) (Results 177)

3:

Search 1 and 3 (Results 0)

4:

Search bottle and 1 (Results 257)

5:

Search pipe and 5 (Results 6)

6:

Search CPC=(B08B9/28) (Results 651)

7:

Search 3 and 7 (Results 2)

8:

Search [SP]: Dispositivo para posicionamiento controlado, ordenado y predeterminado de objetos de acción simultánea sobre múltiples guías
9: CARACTERIZADO por un tubo acanalado divisor 3 rodillo de acero inoxidable con ranuras (16) distribuidas longitudinalmente sobre su superficie con posición, orientación, pendiente y geometría predefinidas; con ranuras centrales (17) en posición vertical y ranuras siguientes distribuidas longitudinalmente sobre el tubo (3) con posición inclinada hasta terminar en posición de ángulo agudo con respecto a la horizontal en las ranuras laterales (18); soportes (1), divisores (2) como múltiples guías, bujes de rodamiento, las guías de estabilización de ranura posicionada, dedos de acero inoxidable roscados, rodamientos guías, un mecanismo de transmisión de movimiento con cambio de dirección, su volante actuador de giro y ajuste con tornillo común para ensamble. (Results 0)

Search [SP]: Device for controlled, ordered and predetermined positioning of objects simultaneous action on multiple guides CHARACTERIZED by a
10: grooved tube divider 3 stainless steel roller with slots (16) distributed longitudinally on its surface with predefined position, orientation, slope and geometry; fraud central slots (17) in vertical position and subsequent slots distributed longitudinally on the tube (3) with inclined position until finishing in position acute angle with respect to the horizontal in the lateral grooves (18); supports (1), Dividers (2) as multiple guides, bearing bushings, stabilization guides Positioned slot, threaded stainless steel fingers, guide bearings, a movement transmission mechanism with change of direction, its steering wheel Turn actuator and adjustment with common screw for assembly. (Results 0)

Search CPC=(B08B9/42 OR B08B9/32) (Results 988)

11:

Search 3 AND 11 (Results 0)

12:

Search bottle and 11 (Results 517)

13:

Search guide and 13 (Results 209)

14:

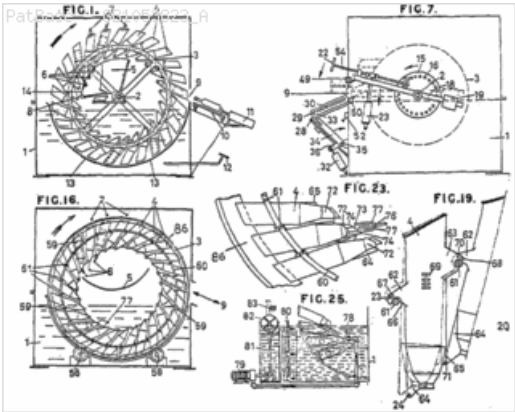
Search pipe and 14 (Results 69)

15:

Title: **Bottle** cleaning apparatus.

Abstract: Source: GB1053823A [EN] 1,053,823. **Bottle** cleaning apparatus. H. SILBERZAHN. Feb. 20, 1964 [Feb. 25, 1963; May 17, 1963; Oct. 22, 1963], No. 7126/64. Heading B8T. Apparatus for cleaning **bottles** comprises a wheel 3, Fig. 1, rotatable about a horizontal axis in a tank 1 containing cleaning liquid, **bottle** holders 4 mounted non-radially on the wheel and each having a tapered inner portion for receiving a **bottle** neck, a stationary arcuate retainer 13 which keeps the **bottles** in their holders whilst they pass through the cleaning liquid, and spray nozzles 6, 7 for rinsing the **bottles** inside and outside mounted above the cleaning liquid and screened off therefrom. In one embodiment, Fig. 1, the screening is by a trough 5 with a discharge **pipe** 8. The **bottles** are inserted into their holders from a sliding carriage 10 by hand or by a pneumatic cylinder 11 and leave the holders under gravity. The wheel 3 is mounted on a shaft 2 rotated intermittently by means of a pedal 12. In a second embodiment, Fig. 7, the shaft 2 carries a disc 15 with holes 16 corresponding to each **bottle** holder and engageable by a spring-loaded detent. A rocking lever 18 on shaft 2 carries an eccentric which acts to release the detent and allow disc 15 to rotate one step as the lever is rocked by hand or by a jack 23. A jack 32 actuates levers 33, 34, 36, which advance rollers 29 in slots 30 and feed **bottles** to the wheel. The lever 36 also operates a valve to allow rinsing liquid to pass to spray nozzles 6, 7. Operation of jacks 23 and 32 is by limit switches which control valves in a pneumatic circuit. In a third embodiment, Fig. 16, hoops 57, driven by rollers 58, carry rings 60 and transverse webs 61, on which the **bottle** holders 4, Fig. 19, are clipped by detents 62, 63. A U-shaped projection 65 on each holder grips a projection 64 on the adjacent one and the holders may be joined by split pins at 70 and 71. The holders comprise tubular members 74, Fig. 23, which direct cleaning liquid from nozzles 77 between the outside of the **bottle** and the inside of the holder when the **bottles** are horizontal to remove lables. The nozzles 77 may form an integral structure 78, Fig. 25, fed with cleaning liquid from the tank 1 via a **pipe** 80 and a built-on tank 81, by a pump 79. The cleaned-off labels are deposited on a perforated drum 82 and discharged into a collecting container 85 by an impeller 83. The nozzles 6, 7 may be stationary, or may rotate with the wheel a short distance and then return rapidly.

Classifications:
International (IPC 8-9): B08B3/14 B08B9/32 B08B9/44 (Advanced/Invention);
B08B3/14 B08B9/20 (Core/Invention)
International (IPC 1-7): B67C1/04
CPC: B08B3/14 B08B9/32 B08B9/44
European: B08B3/14 B08B9/32 B08B9/44



Family:

Publication number	Publication date	Application number	Application date
GB1053823 A	00000000		00000000

Title: MACHINE POUR LE NETTOYAGE DES BOUTEILLES MACHINE FOR CLEANING BOTTLES (Machine translation)

Abstract: Source: FR1383435A [FR] (Claim 1) 1. Machine pour le nettoyage de bouteilles, notamment de bouteilles fortement encrassées, dispositif caractérisé par une roue de plongée, à axe horizontal, disposée dans un récipient qui contient le liquide de nettoyage, la roue portant sur sa périphérie un certain nombre de cellules à bouteilles dont la partie conique servant à recevoir le col de bouteille est dirigée vers l'intérieur et dont les axes sont, pour garantir la sortie automatique des bouteilles vers l'extérieur, un angle aigu avec la tangente au cercle périphérique passant par le point d'intersection de ce cercle avec l'axe de cellule;

Machine translation: (Claim 1) 1. Machine for cleaning bottles, including bottles heavily soiled, device characterized by a dive wheel, a horizontal axis, disposed in a container containing the cleaning liquid, the wheel on its periphery a number of cells has cylinders with a conical portion for receiving the bottle neck is directed towards the inside and whose axes are, to ensure automatic output to the outside of bottles, an acute angle with the tangent to the peripheral circle passing through the point of intersection of this circle with the axis of cellule

Classifications:

International (IPC 8-9): B08B9/20 B08B9/22

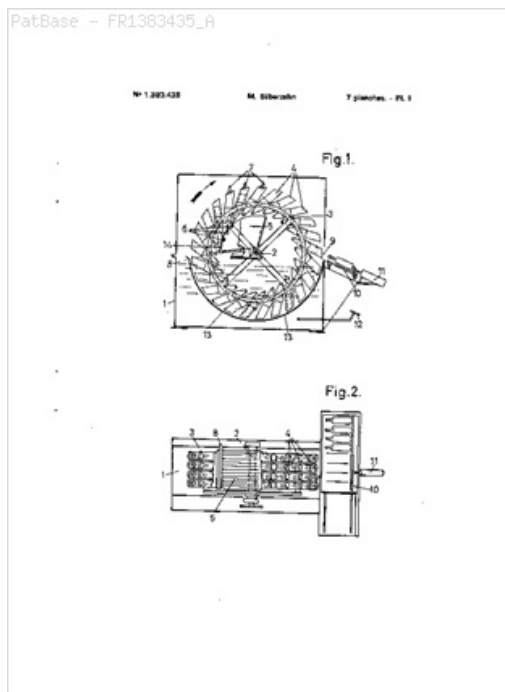
B08B9/42 (Advanced/Invention);

B08B9/20 (Core/Invention)

International (IPC 1-7): B67C 1/04

CPC: B08B9/205 B08B9/22 B08B9/42

European: B08B9/20H B08B9/22 B08B9/42



Family:

Publication number	Publication date	Application number	Application date
FR1383435 A	19641224	FR19640964930	19640224

Priority:

FR19640964930 19640224

Inventor(s): (std):

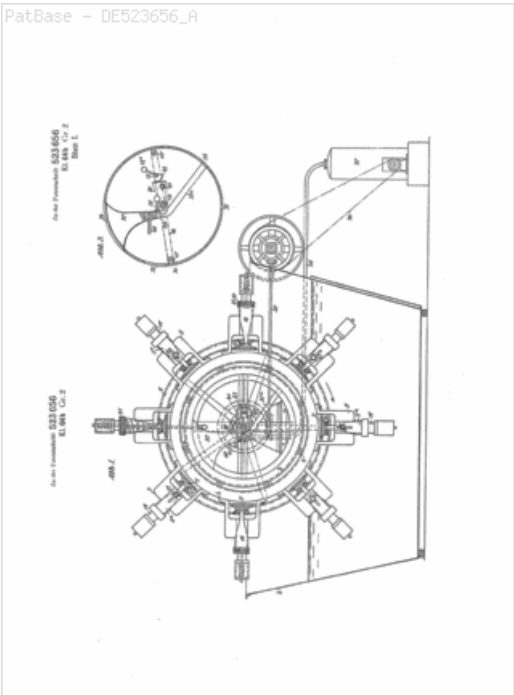
SILBERZAHN HELMUT

Title: VERFAHREN ZUM REINIGEN VON FLASCHEN SOWIE MASCHINE ZUR AUSFUEHRUNG DES VERFAHRENS METHOD FOR CLEANING **BOTTLES** AND MACHINE FOR EXECUTION OF THE PROCEEDING (Machine translation)

Abstract: Source: DE523656A [DE] (Claim 1) 1. PATENTANSPRUECHE- i. Verfahren zum Reinigen von Fla schen, bei welchem die sich um ihre eigene Achse drehbaren Flaschen mit einer dreh baren Trommel verschiedenen Reinigungs- und Spielstationen zugefuehrt werden unter Verwendung von Schrotkoerpern und Buer sten zur mechanischen Innen- und Aussen reinigung, dadurch gekennzeichnet, dass die von einer auf einer festen Trommel (3) in der Wanne drehbaren Trommel (i) aufgenommenen Flaschensaetze unter ein maligem schrittweisen Umlauf den ein zeln Stationen unter Erhaltung der staen digen Drehbewegung der Flaschen absatz weise derart zugefuehrt werden, dass vor der mechanischen und chemischen Reini gung sowie Ausspuelung zunaechst eine Vorentsaugung der Flaschen (16) unter Benutzung einer mit der Maschine ver bundenen Luftpumpe (37) bekannter Art stattfindet und unter Ausnutzung der Um laufbewegung der Flaschensaetze eine selbsttaetige ueberleitung von Schrotkoer pern von den jeweils oberen zu den je weils unteren Flaschensaetzen erfolgt.

Machine translation: (claim 1) 1 Claims-i method of cleaning between Fla., in which most be added to the leads on its axis rotating cylinder with a rotating drum Baren various cleaning and rinsing stations using Schrotkoerpern Buer and the mechanical interior and exterior cleaning, characterized that of a solid on a drum (3) in the tub rotatable drum (i) received Flaschensaetze below a maligem gradual circulation which an individual stations with retention of staen ended rotational movement of the **bottles** as heels are conveyed so that before the mechanical and chemical cleaning and washing out first a Vorentsaugung of the **bottles** (16) using a comparable with the machine affiliated air pump (37) of known type takes place, and taking advantage of the order running movement of the Flaschensaetze Pern a selbsttaetige transition from Schrotkoer of the respective upper to the ever Weils lower Flaschensaetzen takes place.

Classifications:
International (IPC 8-9): B08B9/32 (Advanced/Invention);
B08B9/20 (Core/Invention)
International (IPC 1-7): B67C1/04
CPC: B08B9/32
European: B08B9/32



Family:

Publication number	Publication date	Application number	Application date
DE523656 A	19310428	DE1929SC91350D	19290828

Priority:

DE1929SC91350 19290828 DE1929SC91350D 19290828

Probable Assignee: ALBERT SCHNEDLER

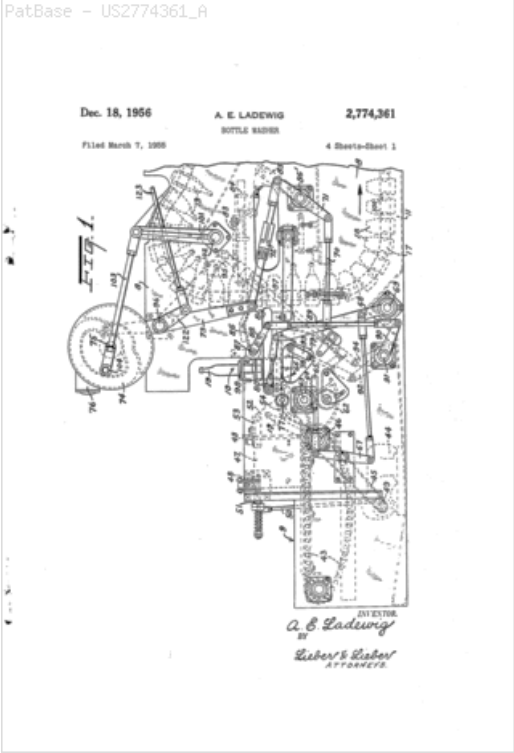
Assignee(s): (std) ALBERT SCHNEDLER

Title: **BOTTLE** WASHER

Abstract: Source: US2774361A [EN] 'Iclaimz', K ' 1. In a **bottle** Washer, a casing having therein means for dividing the casing into a lower chemical solution **bottle** soaking basin and a succession of upper chemical solution and fresh water **bottle** washing zones segregated from said **bottle** basin, a conveyor for transporting **bottles** successively in upright position while immersed within chemical solution through said **bottle** basin and in inverted position, a heat transfer device located above the liquid level in said basin, means for circulating hot chemical solution from said basin directly through said device and another portion through said chemical solution spraying zone, and means for admitting fresh water to said fresh water **bottle** spraying zone through said device to pre-heat said water. 3. In a **bottle** washer, a casing having a hot chemical solution **bottle** soaking basin extending throughout its major lower portion and being provided above said basin with a series of **bottle** spray washing zones, the first two washing zones of said series having chemical solution **bottle** sprays therein and a subsequent washing zone of the series having fresh liquid sprays therein, a heat transfer device located above the level of the liquid in said basin, means for delivering some hot chemical solution from said basin directly to the first of said chemical solution **bottle** sprays and for simultaneously delivering other of said hot chemical solution through said device to the second chemical solution **bottle** sprays of said series, and means for conducting the fresh liquid to said fresh liquid **bottle** sprays through said device to pre-heat said fresh liquid. 4. In a **bottle** washer, a casing having a hot chemical solution **bottle** soaking basin extending throughout its major lower portion and being provided above said basin with a series of **bottle** spray washing zones segregated from the basin, the first two washing zones of said series having chemical solution **bottle** sprays therein and a subsequent washing zone of the series having fresh liquid sprays therein, a main heat transfer device located above the level of the liquid in said basin, means for circulating some hot chemical solution from said basin directly to the first of said chemical solution **bottle** sprays and for simultaneously delivering other of said hot chemical solution through said main device to the second chemical solution **bottle** sprays of said series, means for conducting the fresh liquid to said fresh liquid **bottle** sprays through said main device to pre-heat said fresh liquid, and an auxiliary heat transfer device below said first chemical solution washing zone for preheating the fresh liquid by heat derived from the spent hot chemical solution in said first zone. 5. In a **bottle** Washer, a casing having therein a lower hot chemical solution **bottle** soaking basin and a series of **bottle** washing zones above said basin, means for conveying **bottles** in succession through said soaking basin and said washing zones, a main heat transfer device located above the liquid level in said basin, means for circulating hot chemical **bottle** washing solution from said basin through said device to an initial washing zone of said series, an auxiliary heat transfer device beneath said initial washing zone supplied with heat from spent liquid delivered from said zone, and means for supplying fresh **bottle** Washing liquid to a subsequent washing zone of said series through said auxiliary heat transfer device to pre-heat said fresh liquid whenever the machine is started. 6. In a **bottle** washer, a casing having therein a lower chemical solution **bottle** soaking basin and an upper chemical solution **bottle** spray washing zone segregated from said basin, a conveyor for transporting successive **bottles** through said basin and said zone in succession, means for delivering hot chemical solution from said basin to said zone, and means including a laterally inclined partition spanning said basin and a solution clarifying device located externally of said casing near the lower end of said partition for returning the spent chemical solution from said zone to said basin. 7. In a **bottle** washer, a casing having therein a lower chemical solution **bottle** soaking basin and an upper chemical solution **bottle** spray washing zone segregated from said basin, a conveyor for transporting successive **bottles** through said basin and said zone in succession, a strainer, a pump for delivering hot chemical solution from said basin through said strainer to said washing zone, and means including a filter for clarifying and returning the spent chemical solution from said zone to said basin. 8. In a **bottle** washer, a casing having therein a lower **bottle** soaking basin segregated from a series of upper **bottle** washing zones by a laterally inclined approximately horizontal partition, a conveyor for transporting successive **bottles** through said basin and said zones in succession, a pump for delivering hot chemical solution from said basin to an initial zone of said series, a liquid defcarnng device, means for returning spent Chemical solution from said initial zone to said basin through said device, and means for conducting spent washing liquid from the lower portion of said partition into said basin through said defoaming device. 9. In a **bottle** washer, a casing having therein a lower **bottle** soaking basin and a series of upper **bottle** washing zones segregated from the basin by a transverse partition, a conveyor for transporting successive **bottles** through said basin in upright position and through said zones in succession in inverted position, a filter on each side of said casing, a heat exchanger above said basin, a pump for delivering liquid from said basin directly to an initial zone of said series and through said heater to a subsequent zone, and means for returning spent washing liquid from said zones through said filters to said basin and said pump. 10. In a **bottle** washer, a casing having therein a lower **bottle** soaking basin and several upper **bottle** spray washing zones, a conveyor for transporting **bottles** successively through said basin and said zones, means for heating the liquid in said basin, a heat transfer device located above the level of the liquid in said basin, means for circulating hot liquid from said basin through said device to one of said zones, and means for conducting fresh liquid through said device to another of said zones, the hot liquid in said device being returnable by gravity to said basin when the machine is stopped. 11. In a **bottle** washer, a casing having a hot chemical solution **bottle** soaking basin in its lower portion and being provided above said basin with a series of **bottle** spray washing zones, the first two washing zones of said series having chemical solution **bottle** sprays therein and a subsequent washing zone of the series having fresh liquid sprays therein, a heat transfer device located between said zones and said basin, means for delivering some hot chemical solution from said basin directly to the first of said chemical solution **bottle** sprays and for also delivering other of said hot chemical solution through said device to the second chemical solution **bottle** sprays of said series, and means for conducting the fresh liquid to said fresh liquid **bottle** sprays through said device to pre-heat said fresh liquid. 12. In a **bottle** Washer, a casing having therein a lower hot chemical solution **bottle** soaking basin and a series said basin, means for through said soaking main heat transfer device and said basin, means of **bottle** washing zones above conveying **bottles** in succession basin and said Washing zones, a vice located between said zones for circulating hot chemical **bottle** washing solution from said basin through said device to an initial washing zone of said series, an auxiliary heat transfer device between said initial Washing zone and said basin and being supplied with heat from spent liquid delivered from said zone, and means for supplying fresh **bottle** Washing liquid to a subsequent Washing zone of said series through said auxiliary heat transfer device to pre-heat said fresh liquid whenever the machine is started. 13. In a **bottle** washer, a casing therein a lower **bottle** ~ 2,774,361 A - sonrlngbasin and a series of upper **bottle** Washing zones segregated from the basin by a transverse partition, a conveyor for transporting successive **bottles** through said basin in upright position and through said zones in succession in inverted position, a filter on each side of said casing, a heat exchanger between said zones and said basin, a pump for delivering liquid from said basin to an initial zone of said series and through said heater to a subsequent zone, and means for returning spent washing liquid from said zones through said filters to said pump. 14. In a **bottle** washer, a casing having therein a **bottle** soaking basin and several successive spray washing zones, means for heating the liquid in said basin, means for advancing **bottles** in succession through said basin and through the successive spray zones, a heater located above the liquid level in said basin, a pump for circulating a portion of the hot liquid from said basin directly through an initial spray zone and another portion of said hot liquid through said heater and a subsequent spray zone while the **bottles** are being spray washed, means for supplying relatively cool liquid to a further subsequent spray zone through said heater to heat said cool liquid, and a control valve in said cool liquid supply means operable to interrupt the cool liquid supply whenever the **bottles** are advancing from zone to zone. 15. In a **bottle** washer, a casing having therein a hot liquid **bottle** soaking basin and several sets of liquid delivery nozzles segregated from said basin, a conveyor for advancing successive **bottles** through said basin and past said nozzle sets in succession, a heat exchanger located adjacent to said basin, a pump for delivering a portion of said hot liquid from said basin directly to an initial set of said nozzles and another portion to a subsequent nozzle set through said heat exchanger, means for supplying cool water through said heat exchanger to heat said cool water as it passes to a subsequent set of said nozzles, a valve in said cool water supply means operable automatically to interrupt the cool water supply whenever the washer stops, means operable when the washer is stopped and the flow of cool water is interrupted for also stopping said pump and the flow of hot liquid through said

heat exchanger, and means for conducting hot liquid from said heat exchanger into said basin to prevent build up of temperature of the cool water during periods of inactivity of the washer. 16. In a bottle washer, a casing having therein a bottle soaking basin and several successive bottle spraying zones, means for advancing successive bottles through said basin and said spraying zones in succession, means for supplying hot liquid from said basin to an initial spraying zone, at a heat exchanger disposed beneath said initial spraying zone and above said basin, means for supplying cool liquid through said heat exchanger to a subsequent spraying zone to heat said cool liquid, an electrically actuated control valve for interrupting the cool liquid supply whenever the washer stops, and means cooperable with said valve to stop the delivery of hot liquid to said initial spraying zone whenever the washer is stopped thereby preventing a build up of temperature of the liquid within said heat exchanger during periods

Classifications:
International (IPC 8-9): B08B9/42 (Advanced/Invention);
B08B9/20 (Core/Invention)
International (IPC 1-7): B67C1/04
CPC: B08B9/42
European: B08B9/42
US: 134/108 134/110 134/131 134/74



Family:

Publication number	Publication date	Application number	Application date
US2774361 A	19561218	US19550492501	19550307

Priority:
US19550492501 19550307

Probable Assignee: ARCHIE LADEWIG CO
Assignee(s): (std): ARCHIE LADEWIG CO
Inventor(s): (std): LADEWIG ARCHIE E

Title: Improvements in and relating to **bottle** washing machines

Abstract: Source: GB689685A [EN] 689,685. **Bottle**-washing machines. GRAHAM-ENOCK MANUFACTURING CO., Ltd., ENOCK, A. G., and BRANCH, S. F. Sept. 26, 1950 [June 27, 1949; April 17, 1950; Nos. 16953/49 and 9336/50. Class 138 (i). [Also in Group XXX] A **bottle**-washing machine comprises an intermittently advancing **bottle** conveyor having **bottle** feed and discharge means actuated by hydraulic rams, the conveyor-advancing ram being operated from a main power circuit under the control of directional valves operated by a servo circuit, the servo circuit being controlled by an electric-magnetic valve at the completion of the return stroke of the ram. A manually controlled valve may be inserted in the exhaust line of the conveyor-advancing ram, whereby the speed of the return stroke is adjustable whereas the operative stroke is always made at full speed; this enables the machine to be slowed down whilst keeping the time during which the **bottles** are being moved, and hence not sprayed, to a minimum. As shown in Figs. 1 and 2, the conveyor comprises a pair of endless chains **guided** by sprockets 114 and curved or straight **guide** plates. Extending between the two chains are pairs of channel members 126, to which are secured several octagonal **bottle**-receiving baskets 116, made of 'sheet metal and provided with stepped neck portions so that they accommodate various sized **bottles**. The **bottle**-feeding means consists of a rotatable drum 128 formed on each of its four sides with a row of **bottle**-receiving recesses having the same spacing as the rows of baskets 116. When the operator has filled the row, the drum 128 is rotated through 90 degrees thereby the **bottles** are slid off, over grooved platform 134 into a row of baskets 116, the latter being partly submerged in liquid whereby the final movement of the **bottles** is cushioned. The 90 degrees rotation of drum 128 is effected by a single stroke of a hydraulic ram (not shown). The **bottles** are passed through a preliminary soaking tank 145, or detergent tank 147, and on leaving the latter are subject to the action of a row of jets, from transverse **pipes** 156, directed into the **bottles**. Along the top run of the conveyor the inverted **bottles** are subjected to jets from further **pipes** 156 and finally each row is discharged by gravity over a grooved platform 136 on to a padded arcuate surface 135. The latter is periodically rotated about its pivot 141 to bring the row of **bottles** into an upright position and to move them on to a discharge conveyor (not shown). The periodic movements of the **bottle**-erecting member 135 is synchronised with the feed-in mechanism and may conveniently be actuated by the same hydraulic ram. The feed and discharge mechanism are also synchronised with the ram 120 which advances the conveyor chain intermittently. The ram 120 is fixed by bracket 121 and it moves a carrier 118 to and fro. The carrier is supported by rollers on a trackway 123, and has mounted thereon a pawl 117 which moves the conveyor in one direction only. The hydraulic control mechanism is preferably detachably mounted at 161 and connected to the machine by flexible connections. The hydraulic system is shown in Fig. 1 of the drawings accompanying the second Provisional Specification wherein the **bottle** supplying drum 128 and the discharge mechanism 135 are actuated by hydraulic rams 65 and 66, moved in synchronism as follows: oil is taken from supply tank 36 by pump 32 and passed through an equalizing valve 44 to relief valves 59 and 60 (which by-pass excess oil by **pipes** 98, 99 into return manifold 27), by **pipes** 61, 62 into directional valves 64, which alternately pass the oil to the tops or bottoms of ram cylinders 65, 66 and exhaust into manifold 34. The conveyor chains are moved intermittently by main rams 2 and 3 as follows: oil from supply tank 24 passes through main pump 19, relief valve 18 (which by-passes excess oil through **pipes** 89, 26 back to the supply tank), and **pipe** 17 to directional valve 10 which alternately passes the oil to one end or the other of the ram cylinders 2, 3 to advance the chains. After the operative stroke of rams 2, 3 oil is exhausted through 31 to manifold 27, whereas after the return stroke it is exhausted through a manually controlled valve 22 whereby the speed of the return stroke is controlled. The directional valves 64 and 10 are all interconnected by a servo system, shown in dotted lines, whereby the valves are all reversed simultaneously, as follows: oil from pump 32 enters a solenoid actuated valve 42 which either passes pressure oil to **pipe** 52 and exhausts **pipe** 51 through 95 to manifold 27, or upon energisation of the solenoid, pressurises 51 and exhausts 52. The solenoid is energised when two pairs of contacts 47 are closed. At the end of the return stroke of main rams 2 and 3. When **pipe** 51 is pressurised servo pressure is introduced into the right hand end of each of the directional valves to move the valve bodies to the left, and when **pipe** 52 is pressurised servo pressure moves all the valve bodies to the right. Thus at each complete cycle of the conveyor rams 2, 3 a row of **bottles** is fed into the machine and a row of washed **bottles** is ejected. Specifications 689,729 and 689,730 are referred to.

Classifications:

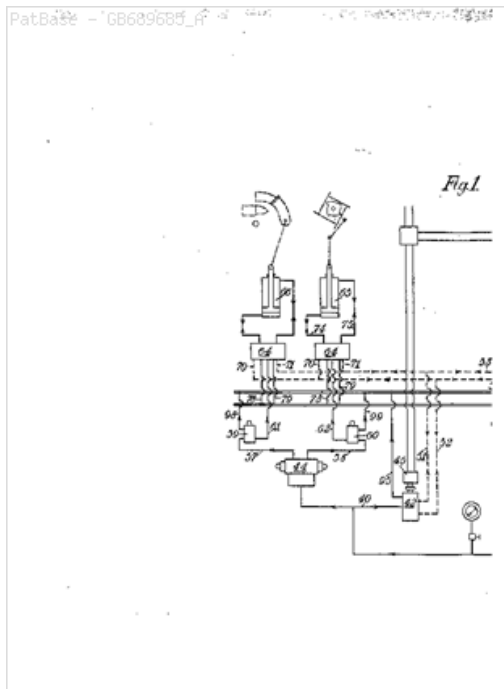
International (IPC 8-9): B08B9/42 (Advanced/Invention);

B08B9/20 (Core/Invention)

International (IPC 1-7): B67C1/04

CPC: B08B9/42

European: B08B9/42



Family:

Publication number	Publication date	Application number	Application date
GB689685 A	19530401	GB19490016953	19490627

Priority:

GB19490016953 19490627

Probable Assignee: SYDNEY FRANK BRANCH

Assignee(s): (std): ARTHUR GRAHAM ENOCK ; GRAHAM ENOCK MFG CO LTD ; GRAHAM ENOCK MFG COMPANY LTD ; SYDNEY FRANK BRANCH

Assignee(s): GRAHAM ENOCK MANUFACTURING COMPANY LIMITED

Title: Improvements in bottle rinsing machines

Abstract: Source: GB271377A [EN] **Bottles**, cleaning.-The **bottles** are placed over tubes 16 carried by the links of an intermittently moved chain and are sprayed externally by overhead jets 14 and internally by upwardly-directed jets 17 which register with the tubes when the chain is temporarily stationary. To ensure correct registration the lower jet tubes are divided into groups, one group only being shown in Fig. 2, and each group is adjustable in position as a whole, the tubes being connected at one end to a slidable header 19 and being carried at the other end by a similarly-mounted block. The **bottles** are transferred to a continuouslyoperated conveyor 1, Fig. 5, by a pair of coating, cam-actuated counterweighted levers h, m. Tiltable **guides** prevent jamming of the apparatus.

Classifications:

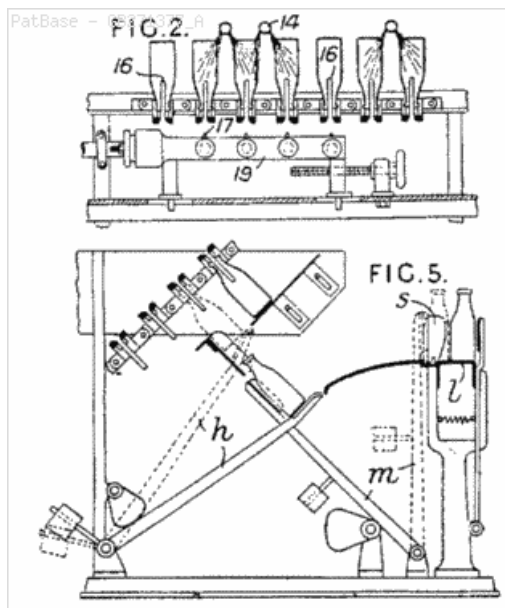
International (IPC 8-9): B08B9/42 (Advanced/Invention);

B08B9/20 (Core/Invention)

International (IPC 1-7): B67C1/04

CPC: B08B9/42

European: B08B9/42



Family:

Publication number	Publication date	Application number	Application date
GB271377 A	19270526	GB19270004267D	19270215

Priority:

GB19270004267 19270215

GB19270004267D 19270215

Probable Assignee:

AXEL MARIUS JORGENSEN

Assignee(s): (std):

AXEL MARIUS JORGENSEN

Title: APPARATUS FOR REMOVING LABELS FROM **BOTTLE** WASHERS

Abstract: Source: GB1046814A [EN] 1,046,814. Washing **bottles**. BARRYWEHMILLER MACHINERY CO. April 16, 1964 [April 29, 1963], No. 15902/64. Heading B8T. **Bottles** are carried by an endless conveyer through a number of soaker compartments 12, separated by partitions 13, in which labels and other solid material are removed and collected in open-ended trough-shaped collectors 26, each of which extends between conveyer wheels 21. Washing solution is circulated in each collector 26 by offset nozzles 37, 39 supplied with washing solution by a pump 31 via **pipe** lines 30, 33, 35 and 38, and the pump inlet is connected, via a label and c. separator 50, to a return main 43. The bottom area of each compartment is also given a solution circulating effect by nozzles 40, 41 fed from **pipes** 35. Each compartment has a washing solution return line 45 connected adjacent its base, and a line 46 which draws labels and washing solution from the collector 26. The labels and solution are drawn by the pump into the label separator 50 which incorporates a motor which lifts the labels and other solids upwardly in a perforated screen to a discharge at 56, and the washing solution is drained through the screen to pass to the pump inlet for recirculation. Control valves 49 and 34 enable one or more compartments to be disconnected, from the label separating mechanism. The **bottles** are carried in pockets arranged in lines extending between opposed conveyer chains, and laterally spaced **guides** 25 hold the **bottles** in position during their travel. In a modification, instead of conveyer wheels 21 at the ends of the collectors, the opposed conveyer chains pass over fixed part-circular **guides** which provide unobstructed openings at the collector ends.

Classifications:

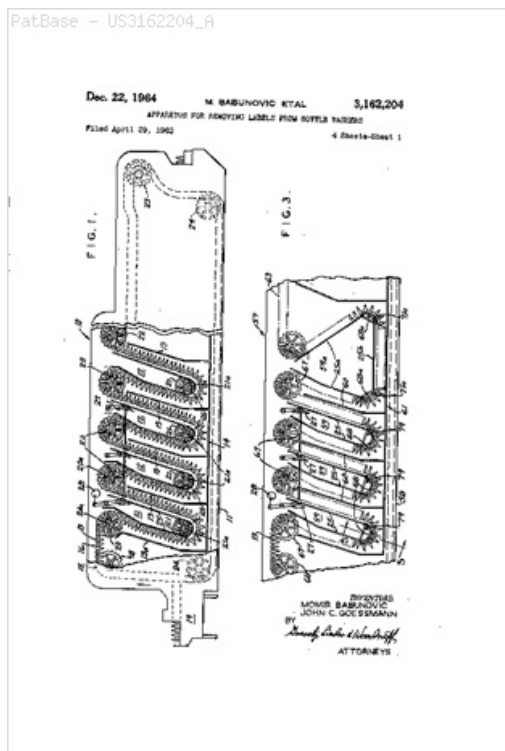
International (IPC 8-9): B08B3/14 B08B9/08
B08B9/42 (Advanced/Invention);
B08B3/14 B08B9/08 B08B9/20 (Core/Invention)

International (IPC 1-7): B67C1/04

CPC: B08B3/14 B08B9/083 B08B9/42

European: B08B3/14 B08B9/08L B08B9/42

US: 134/104.4 134/111 134/74



Family:

Publication number	Publication date	Application number	Application date
BR6458815 A0	19730313	BR19640158815	19640429
DE1432293 A1	19681219	DE1964B076526	19640427
DE1432293 B2	19790607	DE1964B076526	19640427
DE1432293 C3	19800207	DE1964B076526	19640427
GB1046814 A	19661026	GB19640015902	19640416
US3162204 A	19641222	US19630276372	19630429

Priority:

US19630276372 19630429

Probable Assignee: BARRY WEHMILLER MACH CO

Assignee(s): (std): BARRY WEHMILLER CO ; BARRY WEHMILLER MACH CO ; BARRY WEHMILLER MACHINERY COMP ; WHMILLER B CO

Assignee(s): BARRY WEHMILLER MACHINERY COMPANY ; BARRY WEHMILLER MACHINERY CO ; BARRY WEHMILLER CO SAINT LOUIS MO V ST A

Inventor(s): (std): BABUNOVIC MOMIS ; C GOESSMANN JOHN ; GOESSMANN JOHN C ; MOMIR BABUNOVIC

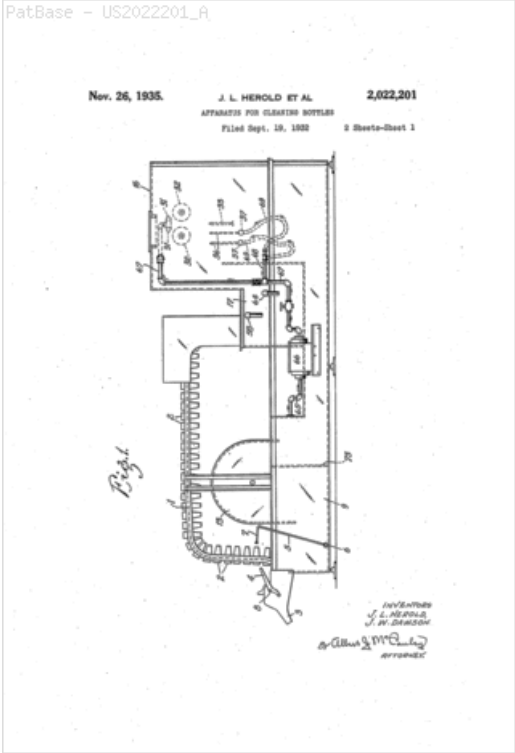
Inventor(s): WHMILLER B CO ; BABUNOVIC MOMIR ; GOESSMANN JOHN C ST LOUIS ; BABUNOVIC MOMIS KIRKWOOD

Title: APPARATUS FOR CLEANING BOTTLES

Abstract: Source: US2022201A [EN] 1. In a bottle cleaning apparatus wherein the bottles are subjected to the action of a hot caustic solution in a. cleansing compartment, a. rinsing T0 compartment at me side of said cleansing compartment, said rinsing compartment being provided with an overliow and an inlet from which water is circulated to said overflow, a bottle carrier!-' t1'_vB1il18' th|~' degrees \l8h said cleansing compart- T5 A s,onn,ao1 ~ ment and thence through said rinsing compartment, said inlet being located near the position where the bottle carrier enters said rinsing compartment, and a partition over which the carrier passes and then moves downwardly from said cleansing compartment to said rinsing compartment, saiddoverflow being spaced from said Inlet and the position where the bottles enter said rinsing compartment, and the surface of the water from said partition to said overflow being unobstructed to permit :tree transmission of the soapy foam from said bottle carrier to said overflow.

Classifications:

International (IPC 8-9): B08B9/42 (Advanced/Invention);
B08B9/20 (Core/Invention)
International (IPC 1-7): B67C1/04
CPC: B08B9/42
European: B08B9/42
US: 134/74 134/75 15/61



Family:

Publication number	Publication date	Application number	Application date
US2022201 A	19351126	US19320633717	19320919

Priority:

US19320633717 19320919

Probable Assignee: BARRY WEHMILLER MACH CO

Assignee(s): (std): BARRY WEHMILLER MACH CO ; BARRY WEHMILLER MACHINERY COMP

Assignee(s): BARRY WEHMILLER MACHINERY COMPANY ; BARRY WEHMILLER MACHINERY CO

Inventor(s): (std): DAWSON JOSEPH W ; HEROLD JAMES L

Title: Improvements in or relating to machines for washing or rinsing **bottles**

Abstract: Source: GB216387A [EN] 216,387. Miller, C. A. July 26, 1923. **Bottles**, washing. - In apparatus having a conveyer with open-ended tubular holders adjusted to hold the **bottles** bottom upwards, spraying means are provided adapted to be engaged by the conveyer so as to be moved with the **bottles** a certain distance in one direction, then released and returned by a spring so as to be engaged by another portion of the conveyer. The conveyer comprises links 6 carrying the holders 5. 5a and passing round driven sprocket wheels 2, 3 above a drain tank 1, two spraying **pipes** 20, 21 being disposed beneath one run and having holes 22 spaced so as to lie centrally beneath each holder. The spraying-**pipes** are closed at one end and fixed at the other end into a hollow member 25 pivotally connected with a **pipe** 34 pivoted to a supply **pipe** 36 for the cleansing liquid. At its closed end the **pipe** 20 carries pivotally a member 40 **guided** between a fixed **guide** 51 and a spring-pressed **guide** 54 and having a projecting roller 43 adapted to be engaged by a holder 5 and moved to the right until the member 40 is swung outwards by the out-turned end 52 of the fixed **guide** so as to disengage the roller 43 from the holder and allow the spraying-**pipes** to be retracted by a spring 53. The next holder 5 then engages the roller 43. so that the spraying-**pipes** are given a reciprocating motion the cleansing liquid, which is continually supplied, is directed into the **bottles** during the motion to the right.

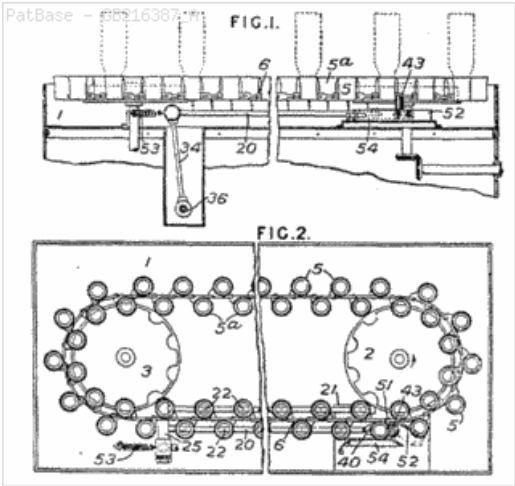
Classifications:

International (IPC 8-9): B08B9/42 (Advanced/Invention);
B08B9/20 (Core/Invention)

International (IPC 1-7): B67C1/04

CPC: B08B9/42

European: B08B9/42



Family:

Publication number	Publication date	Application number	Application date
GB216387 A	19240529	GB19230019157	19230726

Priority:

GB19230019157 19230726

Probable Assignee:

CHARLES ALVIN MILLER

Assignee(s): (std):

CHARLES ALVIN MILLER

Title: Washing apparatus for **bottle** washers

Abstract: Source: US2440419A [EN] 1. in a device of the character described, the combination with a **bottle** propelling conveyor having a **bottle** support adapted to gripe, **bottle** -and maintain it in securely fixed position relative to said support and

Classifications:

International (IPC 8-9): B08B9/42 (Advanced/Invention);

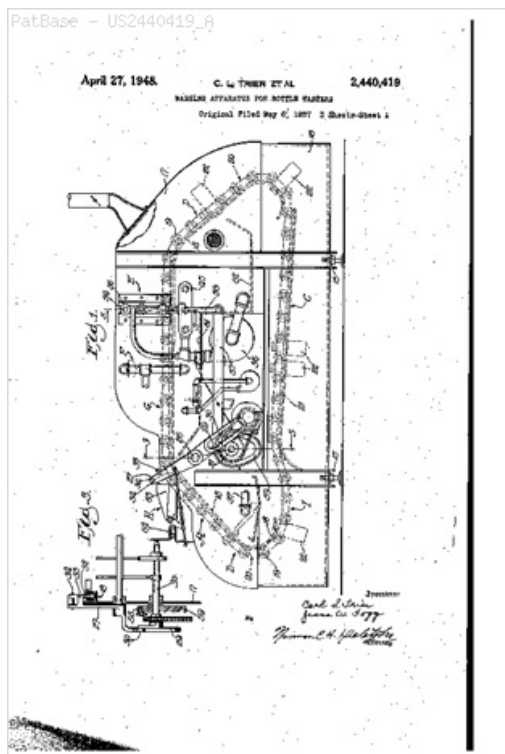
B08B9/20 (Core/Invention)

International (IPC 1-7): B67C1/04

CPC: B08B9/42 B08B9/426 B08B9/423

European: B08B9/42 B08B9/42B B08B9/42G

US: 134/126 134/128 134/134 134/166R 134/30 134/48 134/52
134/73 165/120 198/803.15 198/803.7 34/233



Family:

Publication number	Publication date	Application number	Application date
GB514117 A	19391031	GB19380012586	19380427
GB514130 A	19391031	GB19380032012	19380427
GB514293 A	19391103	GB19380032011	19380427
US2359262 A	19440926	US19400331587	19400425
US2367652 A	19450116	US19370141084	19370506
US2440419 A	19480427	US19400331588	19400425

Priority:

US19370141084 19370506

US19400331587 19400425

US19400331588 19400425

Probable Assignee:

CHERRY BURRELL CORP

Assignee(s): (std):

CHERRY BURRELL CORP

Inventor(s): (std):

FOGG JESSE W ; TRIER CARL L