

Search history

Search 1: rod cleaning (Results 762)
Search 2: rod washing (Results 113)
Search 3: beverage (Results 212875)
Search 4: 1 and 2 (Results 2)
Search 5: 1 and 3 (Results 3)
Search 6: washing device (Results 32114)
Search 7: 3 and 6 (Results 151)
Search 8: rod (Results 1000000)
Search 9: 8 and 7 (Results 18)

1) Family number: 32303014 (US2005227884A)

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Title: METHOD AND COMPOSITION FOR REMOVING WAXY SOILS

Abstract: The invention generally pertains to a method and composition for removing waxy soils. The invention also pertains to a method and composition for removing lip cosmetic soils such as lipsticks, Chapsticks™, and the like. The invention further pertains to a method and composition for removing lip cosmetic soils from the surface of drinkware. Finally, the invention pertains to a method and composition for removing lip cosmetic soils from the surface of drinkware wherein the drinkware is first pretreated with an effective amount of a pretreating composition and the drinkware is then treated with a normal washing process. In an embodiment, the drinkware is first pretreated with an effective amount of a pretreating composition to remove substantially all of the lip cosmetic soil from the drinkware. In an embodiment, the drinkware is first pretreated with an effective amount of a pretreating composition to loosen the lip cosmetic soil.

Classifications:

International (IPC 8-9): C11D11/00 C11D17/04

C11D3/43 (Advanced/Invention);

C11D3/18 C11D7/24 C11D7/26 (Advanced/Non-invention);

C11D11/00 C11D17/04 C11D3/43 (Core/Invention);

C11D3/18 C11D7/22 (Core/Non-invention)

International (IPC 1-7): A61K7/02 A61K7/025

CPC: C11D3/18 C11D3/43 C11D7/248 C11D7/263 C11D7/264

C11D7/266 C11D11/0035 C11D17/049

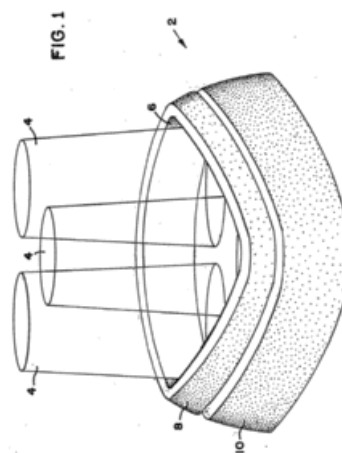
European: C11D11/00B2D4 C11D17/04F C11D3/43 M11D3/18

M11D7/24T M11D7/26C M11D7/26D M11D7/26F

US: 510/136

PatBase - US2005227884_AA

Patent Application Publication Oct. 13, 2005 Sheet 1 of 4 US 2005/027884 A1



Family:

Publication number	Publication date	Application number	Application date
US2005227884 AA	20051013	US20050097847	20050401

Priority:

US20040560102P 20040407 US20050097847 20050401

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC

Inventor(s): (std): BRADLEY TAREASA L ; CHANDLER DENISE M ; MASER BRYAN A

Inventor(s): BRADLEY TAREASA ; MASER BRYAN ; CHANDLER DENISE

Agent(s): ECOLAB INC

Title: Improvements in Refreshment Fountains, and Liquid Measuring and Delivering Machines.

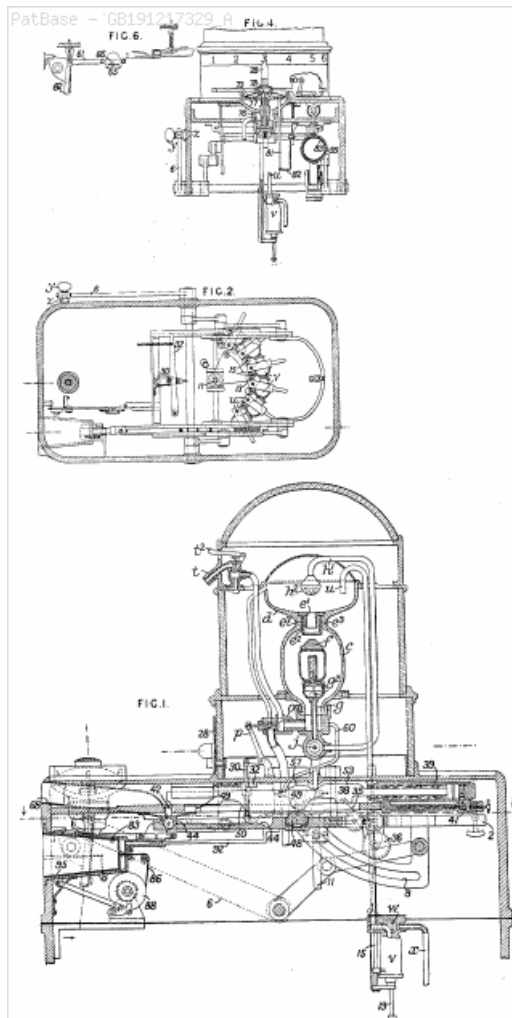
Abstract: 17,329. Link, R. P. Jan. 25, 1913. Dispensing liquids.- The desired one of a number of beverages may be automatically prepared in and delivered from a machine which may be coinfreed and is provided with means whereby the mixing - chamber is rinsed out prior to each mixing and delivering operation. In the form shown, a main operating-frame, freed by the action of a coin, is moved by a hand-lever and at the end of its forward stroke a secondary frame is moved by the energy stored by the travel of the main frame the return strokes of the two frames follow each other similarly. The frames operate valves controlling the supply of water for rinsing and for making the beverage, a waste valve, and valves controlling the supply of gas for aeration and c. The kind of flavouring desired is selected by the user, and is supplied to the mixing-chamber by one of a number of pumps actuated by the main frame. A tumbler attached by a cord to the machine is automatically returned to place after use and means for washing out the tumbler are also provided. The mixing- chamber c is surmounted by a saucer - shaped vessel d into which extend a water rose h<2> and a number of flavouring - supplying pipes u. These pipes communicate with a corresponding number of pump cylinders v supplied through pipes x under the control of a rotary plug valve w. Water is supplied to the mixing chamber c and the vessel d through a valve j controlled by a cam 53 on the secondary frame 38, and passes through pipes g, h<1>, a check valve g<2> being provided on the pipe g. A float valve f is adapted to close the communication between chambers c, d if raised sufficiently by accumulation of liquid in the chamber c and venting of this chamber is obtained by apertures e<3> leading from the annular space between the tubes e<1>, e<2> forming a double seal for the valve f. The waste outlet from the chamber c is controlled by a valve o actuated by a bellcrank lever p. The aerating-gas is led to the base of the mixing-chamber c through a pipe 60 from a chamber 57 having supply and exit valves controlled by the operating-mechanism. When the beverage is prepared, it may be discharged through a nozzle t controlled by a hand-operated valve t<2>. When the machine is coin-freed, the coin is inserted and passes down a shoot 68 into a pocket on a lever 61, Fig. 6, this pocket being formed by a pair of pivoted members 65 held up by a spring 66. The weight of the coin causes the lever to descend, thus removing obstruction from the path of the main frame 2. This frame is slidable in horizontal guides, and is operated by a hand-lever 6 provided with a pivoted handle y having a pair of chisel edges z adapted to catch against the adjacent wall of the casing should the lever be operated too rapidly. The secondary frame 38 slidably mounted above the main frame is prevented from moving until the main frame reaches the end of its forward stroke, by means of a catch 42 raised by cam surfaces 44, The frame 38 is moved by a cord 35 secured to a stationary spring drum 36, the spring being wound up by the movement of the main frame. The latter frame carries a cam slot 8 adapted to reciprocate a rod 11 which can be connected to any one of a number of vertical rods 15 for actuating the pistons of the pump cylinders v. The selection of the desired flavouring is effected by setting an indicator 28 attached to a rotatable ring capable of turning a fork 13 connecting the selected rod with the rod 11. The actuated rod 15 in its descent first moves the valve w to shut off the cylinder from the pipe u and to open communication with the supply, and then moves the piston-rod 19 to fill the cylinder. The secondary frame 38 in its forward movement turns on the water supply to rinse out the chambers c, d, the waste valve o meanwhile having been opened by the movement of the main frame, and kept open, until the return stroke, by a detent lever 32 cooperating with a notch in the rod 30. The secondary frame in its forward stroke also operates the aerating-gas valves to cause the chamber 57 to fill. While the secondary frame is moving, the main frame is locked by a catch 48 adapted to engage recesses in the framing and released by cam surfaces 49, 50 on the frame 38. The secondary frame is controlled in its movements by a dash-pot 39, the effectiveness of which is adjustable by means of a needle valve 41 so as to vary the rate of travel and therefore the time during which the water inlet valve is open. The frame 2 is provided with a full-stroke device comprising a rack and a gravity pawl. The drinking-tumbler may be rinsed out by pressing it down on a perforated piston 73, spring-mounted and having a valve seat 77 co-operating with a stationary valve 78, the stem of which passes through the water-supply conduit 76. The descent of the piston prior to insertion of the coin is prevented by an arm 82 connected with the coin-lever 61 and co-operating with a rod 81 secured to the piston 73. The tumbler 83 is normally held within a recess in the casing, and is pushed out by a rod 92 carried by the main frame 2. A cord 86 secured to the glass passes round a spring drum 88 provided with a ratchet and pawl control. When the glass has been used, its weight on the cord 86 depresses a hinged portion 95 of the wall of the recess, thus releasing the ratchet mechanism and so enabling the spring to retract the glass into its recess. If desired, the apparatus may be used for filling bottles, the valve t being replaced by a bottlefilling valve, and the supply of water for rinsing being omitted. Means for heating the water may be provided to enable hot drinks to be delivered. According to the Provisional Specification, the aerating gas supplied to the mixing chamber is measured by means of two chambers, one within the other and communicating with each other and with the mixing chamber by valves operated in succession by the frames. The outlet valve t is opened by a finger slide connected also with the lever which trips the waste valve o, and there is an interlocking-device between the slide and the main frame 2. Slightly different arrangements of vent holes between the chambers c, d and the valve at the lower end of chamber c are also described.

Classifications:

International (IPC 8-9): B67D1/00 (Advanced/Invention);
B67D1/00 (Core/Invention)

CPC: B67D1/0043

European: B67D1/00H2



Family:

Publication number	Publication date	Application number	Application date
GB191217329 A	19131120		00000000

Priority:

19130125

Probable Assignee:

LINK ROLLS PERCIVAL

Assignee(s): (std):

LINK ROLLS PERCIVAL

Assignee(s):

ROLLS PERCIVAL LINK

Inventor(s): (std):

LINK ROLLS PERCIVAL

Inventor(s):

ROLLS PERCIVAL LINK

3) Family number: 31717090 (US2005072449A)

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Title: DISHWASHER AND METHOD

Abstract: A personal dishwasher washes and dries a dish that is manually or mechanically moved through a dishwasher chamber or is manually placed in and manually removed from the chamber. Pressurized water, possibly containing soap, wetting agent, etc., may be added to the wash water. Steam may be used to for cleaning and/or disinfecting. Ultraviolet light may be used for disinfecting. The dishwasher chamber may be enlarged to pass larger dishes, bowls, glassware, etc. for washing. A method of washing dishes, comprising inserting a dish manually into a dishwasher, passing the dish through the dishwasher, and withdrawing the dish. A method of washing a dish, comprising inserting a single dish into a dishwasher, directing fluid under pressure at the dish, directing air flow at the dish, and withdrawing the dish.

Classifications:

International (IPC 8-9): A47L15/00 A47L15/16 A47L15/18 A47L15/22 A47L15/24 A47L15/26 A47L15/37 A47L15/42 A47L15/46 A47L15/48 A47L15/50 B08B3/00 B08B3/12 B08B9/20 (Advanced/Invention); A47L15/00 A47L15/42 B08B3/12 B08B9/20 (Core/Invention); A47L (Subclass/Invention)

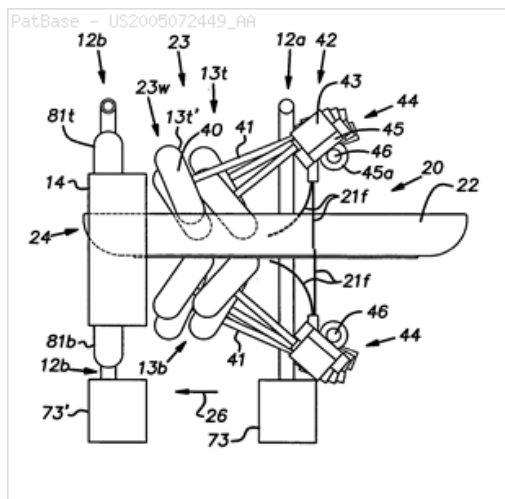
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CPC: A47L15/507 A47L15/46 A47L15/0089 A47L15/4234

A47L15/4242 A47L15/0002 A47L15/485 A47L2601/04

European: A47L15/00A A47L15/00D2 A47L15/00J A47L15/26 A47L15/37 A47L15/42E A47L15/42F6 A47L15/42J A47L15/48C K47L601/04

US: 1/1 134/1 134/198 134/198S 134/25.1 134/25.100P 134/25.2 134/25.200S 134/56 134/56.00DS 134/56D 134/58 134/58.00D 134/58.00DS 134/58D 134/58R 134/94.1 134/94.100S

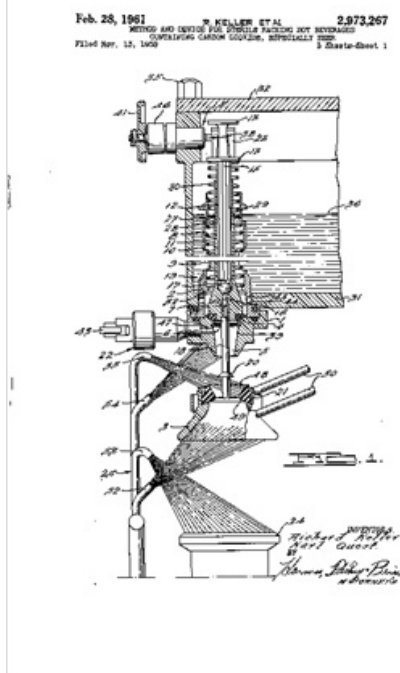


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JP2011067644 A2	20110407	JP20100252146	20101110
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US9949610 BB	20180424	US20160178816	20160610
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
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US: 141/6 426/399

**Family:**

Publication number	Publication date	Application number	Application date
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DE1114719 B	19611005	DE1957H031664	19571114
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Priority:

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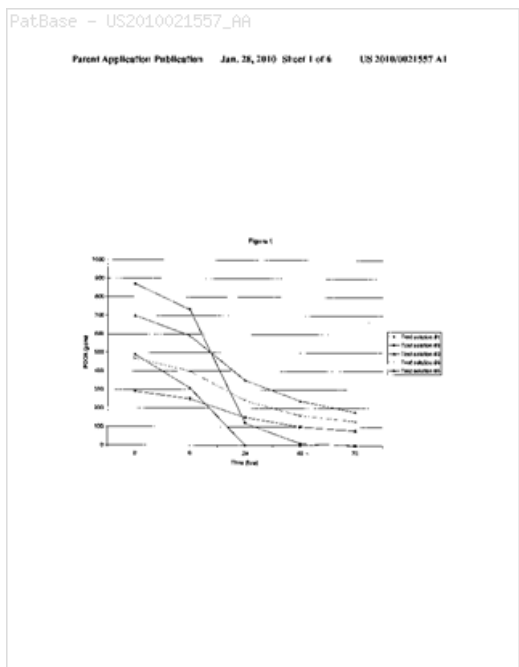
Probable Assignee: BRUNO KAISER DR**Assignee(s):** (std): BRUNO KAISER ; BRUNO KAISER DR ; EMIL PAULS DR ; HOLSTEIN AND KAPPERT MASCHF ; KAISER BRUNO DR**Assignee(s):** HOLSTEIN AND KAPPERT MASCHINENFABRIK IAPHOENIXIA G M B H ; HOLSTEIN AND KAPPERT MASCHINENFABRIK PHONIX G M B H ; HOLSTEIN AND KAPPERT MASCHINENFABRIK PHOENIX G M B H ; HOLSTEIN AND KAPPERT MASCHF IAPHOENIXIA GMBH ; HOLSTEIN AND KAPPERT MASCHINENFABRIK PHOENIX G M B ; HOLSTEIN AND KAPPERT MASCHINENFABRIK IAPHOENIXIA G ; HOLSTEIN AND KAPPERT MASCHINENFABRIK PHONIX G M B ; HOLSTEIN AND KAPPERT MASCHINENFABRIK PHONIX GMBH ; DR BRUNO KAISER ; DR EMIL PAULS**Inventor(s):** (std): KAISER BRUNO ; KARL QUEST ; KELLER RICHARD ; QUEST KARL ; RICHARD KELLER**5) Family number: 43789203 (US2010021557A)**

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Title: SULFOPEROXYCARBOXYLIC ACIDS, THEIR PREPARATION AND METHODS OF USE AS BLEACHING AND ANTIMICROBIAL AGENTS**Abstract:** The present invention relates to novel sulfoperoxycarboxylic acid compounds, and methods for making and using them. The sulfoperoxycarboxylic compounds of the invention are storage stable, water soluble and have low to no odor. Further, the compounds of the present invention can be formed from non-petroleum based renewable materials. The compounds of the present invention can be used as antimicrobials, and bleaching agents. The compounds of the present invention are also suitable for use as coupling agents.**Classifications:**

International (IPC 8-9): A01N25/22 A01N37/00 A01N37/16
A01N37/36 A01N41/04 A01N41/08 A01N43/20 A01N59/00 A01P1/00
A01P3/00 A23B4/20 A23B5/14 A23L3/3481 A23L3/3508 A23L3/3535
A23L3/3544 A23L3/358 A47L15/42 A61K31/10 A61K31/19
A61K31/198 A61L2/18 B08B3/00 C07C309/00 C07C309/05
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C07C407/00 C07C409/24 C07C409/38 C07C409/42 C07D303/16
C07D303/34 C07D303/38 C11D1/04 C11D1/14 C11D1/22
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C11D3/34 C11D3/36 C11D3/39 C11D3/395 C11D3/48 C11D3/60
C11D7/08 C11D7/10 C11D7/18 C11D7/26 C11D7/32 C11D7/34
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A01N41/04 A01N43/20 A01P3/00 A23L3/3535 A23L3/3544
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C11D7/54 (Advanced/Non-invention);
A01N37/00 A01N59/00 A01P1/00 A23L3/3463 A61K31/095
C07C309/00 C07C409/00 C07D303/00 C11D3/00 C11D3/39
C11D3/395 C11D3/48 (Core/Invention);

A01N C07C C07D C11D (Subclass/Invention)
CPC: C07D303/34 A01N43/20 C11D3/395 A01N59/00 A01N2300/00
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C07C409/42
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562/2 562/2S 8/107 8/107S 8/111 8/111S 8/137 8/137S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20160368299	20161202	US20170592776	20170511	US20180997392	20180604

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): ECOLAB INC ; ECOLAB USA INC ; EVERTS FRANK ; FAST JONATHAN P ; LASCOTTE KEITH G ; LANGE STEVEN J ; STAUB RICHARD K ; MCSHERRY DAVID D ; LI JUNZHONG ; STAUB RICHARD ; KREYSEL MATTHIAS ; GOHL DAVID W ; MERZ THOMAS ; FORTH PETER JENS ; HEI ROBERT D P

Assignee(s): HEI ROBERT DP

Inventor(s): (std): EVERTS FRANK ; LI JUNZHONG ; DAVID D MCSHERRY ; RICHARD K STAUB ; KEITH G LASCOTTE ; STEVEN J LANGE ; SASCOTTE KEITH G ; GOHL DAVID W ; HEI ROBERT D P ; KREYSEL MATTHIAS ; FAST JONATHAN P ; FORTH PETER JENS ; MERZ THOMAS ; EVERST FRANK ; STAUB RICHARD ; FRANK EVERTS ; JUNZHONG LI ; MCSHERRY DAVID D ; STAUB RICHARD K ; LANGE STEVEN J ; LASCOTTE KEITH G

Inventor(s): HEI ROBERT DP

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; BORDEN LADNER GERVAIS LLP; MICHALSKI STEFAN; POLYPATENT; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; FUKUMOTO TSUMORU; ECOLAB INC; MCKEE VOORHEES AND SEASE PLC; MCKEE VOORHEES AND SEASE; SORENSSEN ANDREW D

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

6) Family number: 50812313 (WO12035156A1)

© PatBase

Title: CLEANING AGENT HAVING A UREA CONTENT

Abstract: The invention relates to a cleaning agent for cleaning surfaces of vehicles of all types, large outdoor surface areas, in particular of buildings, plants in the food, beverage, tobacco and alcohol industries, in particular milking installations, and plants and equipment having metal, ceramic and/or plastic surfaces. Said cleaning agent contains (a) 10 to 90 percent of urea, (b) 5 to 70 percent by weight of one or more electrolytes, (c) 0.1 to 35 percent by weight of one or more surfactants, and (d) 0.01 to 20 percent by weight of one or more complexing agents. Said cleaning agent is environmentally friendly and cost-effective, extremely effective and advantageously allows the quantities of enzymes and bleaching agents used in conventional cleaning agents to be reduced. The cleaning agent contains in particular only biodegradable and/or biorenewable substances.

Classifications:

International (IPC 8-9): C07C273/02 C11D C11D3/04 C11D3/32 C11D3/33 (Advanced/Invention);

C11D (Subclass/Invention)

CPC: C11D3/046 C11D3/10 C11D3/2075 C11D3/323 C11D3/33 C11D11/0023

European: C11D11/00B2D C11D3/32B C11D3/33

Family:

Publication number	Publication date	Application number	Application date
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AU2011303840 AA	20120322	AU20110303840	20110916
AU2011303840 BB	20141204	AU20110303840	20110916
CN103189491 A	20130703	CN201180052617	20110916
CN103189491 B	20160120	CN201180052617	20110916
HK1183056 A1	20170303	HK20130110474	20130910
HK1183056 A1	20131213	HK20130110474	20130910
HK1183056 B	20170303	HK20130110474	20130910
KR101890290 B1	20180821	KR20137009576	20110916
KR20130129365 A	20131128	KR20137009576	20110916
MY160888 A	20170331	MY20130000884	20110916
NZ608010 A	20141224	NZ20110608010	20110916
SG188557 A1	20130531	SG20130019229	20110916
WO12035156 A1	20120322	WO2011EP66146	20110916

Priority:

EP20100009837 20100917 WO2011EP66146 20110916

Probable Assignee: BBT BERGEDORFER BIOTECH GMBH

Assignee(s): (std): BBT BERGEDORFER BIOTECH GMBH ; BBT BERGEDORFER BIOTECHNIK GMBH ; BECKER KLAUS ; HAAKE MANFRED

Inventor(s): (std): HAAKE MANFRED ; BECKER KLAUS

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; IT AND T INT PATENT AND TRADEMARK AGENT LTD; IT AND T INTELLECTUAL PROPERTY; HAGEMANN HEINRICH ET AL

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

7) Family number: 20355458 (US5993865A)

© PatBase

Title: Beverage and a method of preparing it

Abstract: PCT No. PCT/DK94/00420 Sec. 371 Date Jun. 26, 1996 Sec. 102(e) Date Jun. 26, 1996 PCT Filed Nov. 8, 1994 PCT Pub. No. WO95/13359 PCT Pub. Date May 18, 1995The present invention concerns a beverage containing proteins and/or peptides and is characterized in that it contains Cereal-LT and/or homologues as herein defined and/or a modified Cereal-LTP fraction obtainable from the Cereal-LTP and/or homologues by heating, boiling and/or mashing the Cereal-LTP and/or homologues in water at a pH between 3 and 7. The invention also concerns a method for preparing it and a use of a foam-forming additive.

Classifications:

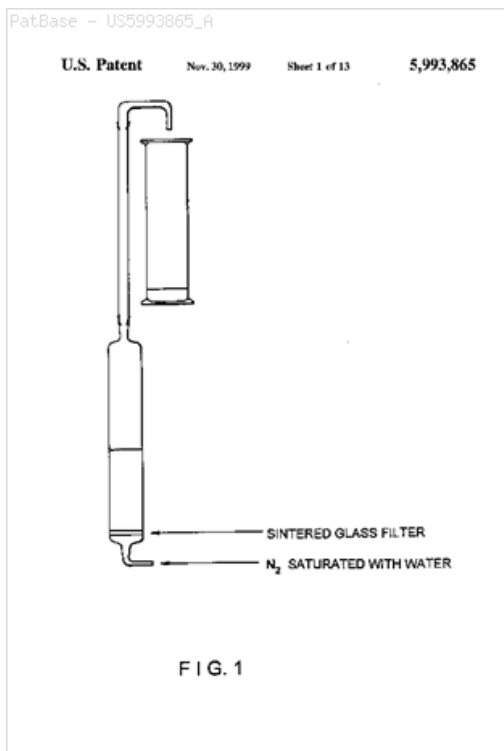
International (IPC 8-9): A23L2/00 A23L2/38 A23L2/66 C12C12/00 C12C5/00 C12C5/02 C12C7/00 C12H1/14 (Advanced/Invention); A23L2/00 A23L2/38 C12C12/00 C12C5/02 (Advanced/Non-invention); A23L2/00 A23L2/52 C12C12/00 C12C5/00 C12C7/00 C12H1/00 (Core/Invention)

International (IPC 1-7): A23L2/00 A23L2/38 A23L2/66 C07K14/415 C12C C12C C12C1/00 C12C11/00 C12C12/00 C12C5/00 C12C5/02 C12C7/00 C12N5/02

CPC: C12C7/00 A23L2/66 C12C5/00 C12H1/14

European: A23L2/66 C12C5/00 C12C7/00 C12H1/14

US: 426/11 426/12 426/15 426/16 426/28 426/29 426/592 426/600



Family:

Publication number	Publication date	Application number	Application date
AT152765 E	19970515	AT19940900084T	19941108
AU199481048 A1	19950529	AU19940081048	19941108
AU685530 B2	19980122	AU19940081048	19941108
BG100605 A	19961231	BG19960100605	19960520
BG62351 B1	19990930	BG19960100605	19960520
BRPI9408008 A	19961203	BR1994PI08008	19941108
CA2175908 AA	19960506	CA19942175908	19941108
CN1137291 A	19961204	CN19941094452	19941108
CZ290031 B6	20020515	CZ19960001292	19941108
CZ9601292 A3	19970416	CZ19960001292	19941108

DE69403092 D1	19970612	DE19946003092	19941108
DE69403092 T2	19970814	DE19946003092T	19941108
DK0728188 T3	19970602	DK19940900084T	19941108
DK126693 A0	19931108	DK19930001266	19931108
EP0728188 A1	19960828	EP19950900084	19941108
EP0728188 B1	19970507	EP19950900084	19941108
ES2103626 T3	19970916	ES19950900084T	19941108
FI961937 A	19960703	FI19960001937	19960507
FI961937 A0	19960507	FI19960001937	19960507
GR3024227 T3	19971031	GR19970401873T	19970723
HU74928 A2	19970328	HU19960001228	19941108
HU9601228 A0	19960628	HU19960001228	19941108
JP3501808 B2	20040302	JP19950513539	19941108
JP9505997 T2	19970617	JP19950513539T	19941108
KR19960705918 A	19961108	KR19960702405	19960508
KR19967005918 A	19961108	KR19967002405	19941108
NO961845 A	19960702	NO19960001845	19960507
NO961845 A0	19960507	NO19960001845	19960507
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NZ275797 A	19980427	NZ19940275797	19941108
PL314262 A1	19960902	PL19940314262	19941108
RO112763 B1	19971230	RO19960000937	19941108
RU2145974 C1	20000227	RU19960113202	19941108
RU96113202 A	19981010	RU19960113202	19960608
US5993865 A	19991130	US19960640847	19960626
WO9513359 A1	19950518	WO1994DK00420	19941108

Priority:

DK19930001266 19931108 WO1994DK00420 19941108

Probable Assignee: CARLSBERG A S

Assignee(s): (std): BEENFELDT THORKILD ; BREDDAM KLAUS ; CARLSBERG A S ; KARLSBERG AS ; CARLSBERG AS ; SOERENSEN STEEN BECH ; VAAG PIA ; MULDBJERG MARIANNE ; LEAH ROBERT ; BECH LENE MOELSKOV

Assignee(s): BECH LENE MOELSKOV ; KARLSBERG A S ; CARLSBERG A S VESTERFAELLEDVEJ ; CARLSBERG A S KOPENHAGEN KOEBENHAVN DK ; CARLSBERG A S COPENHAGEN ; SOERENSEN STEEN BECH

Inventor(s): (std): BECH L M ; BECH LENE M ; BECH LENE MOELSKOV ; BEENFELDT THORKILD ; BREDDAM KLAUS ; L M BECH ; LEAH ROBERT ; LENE MAELSKOV BECH ; LENE MEL SKOV BEK ; MARIANNE MULDBJERG ; MULDBJERG MARIANNE ; P VAAG ; PIA VAAG ; ROBERT LEAH ; S B SORENSEN ; SOERENSEN STEEN BECH ; SORENSEN S B ; SORENSEN STEEN B ; STEEN BECH SORENSEN ; THORKILD BEENFELDT ; TORKILL BENFELT ; MARIANNA MULB'ERG ; VAAG P ; VAAG PIA ; SORENSEN STEEN BECH ; S RENSEN STEEN BECH ; ROBERT LEAKH ; PIA VOG ; STEN BEK SERENSEN ; KLAUS BREDDAM ; BECH LENE MOELSKOV ; BECH LENE MAELSKOV ; BECH LENE M LSKOV

Inventor(s): BREDDAM KLAUS DK 2600 GLOSTRUP DK ; BEENFELDT THORKILD DK 2600 GLOSTRUP DK ; BECH LENE MOELSKOV DK 2765 SMORUM DK ; LEAH ROBERT DK 3460 BIRKEROD DK ; SORENSEN STEEN BECH DK 2680 SOLROD STRAND DK ; MULDBJERG MARIANNE DK 2100 COPENHAGEN O DK ; VAAG PIA DK 2800 LYNGBY DK ; MARIANNA MULB'ERG ; TORKILL' BENFELT ; LENE MEL'SKOV BEK ; LENE MOELSKOV BECH

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

8) Family number: 32754474 (US2007266677A)

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Title: METHOD AND APPARATUS FOR STERILIZATION AND FILLING OF CUP TYPE CONTAINER AND CUP TYPE CONTAINER-PACKED BEVERAGE MANUFACTURED BY THE APPARATUS

Abstract: Cup-shaped containers can be turned over and transferred with good stability from a sterilization-washing zone to the filling-sealing zone inside an aseptic chamber, and admixture of odor or microorganisms is prevented. The first conveyor 2 for conveying the cup-shaped container 38 in an inverted state and a second conveyor 3 for conveying the container in an upright state downstream of the first conveyor 2 are disposed in series in substantially the same plane inside a continuous aseptic chamber 1. A container supply device, a container sterilization device, and a container washing device are disposed successively along the first conveyor 2. A contents filling device 40, a lid material sealing device 41, and a device for discharging the sealed cup-shaped container are installed successively along the second conveyor 3. Sterilization and washing are performed in an inverted state, while conveying the container with the first conveyor 2. The washed container is turned over and transferred from the first conveyor to the second conveyor 3 and the contents filling and lid sealing are performed on the second conveyor.

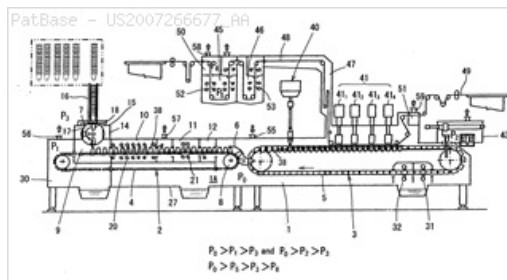
Classifications:

International (IPC 8-9): B04B11/00 B65B3/04 B65B55/02 B65B55/04 B65B55/10 B65B55/24 B65B61/00 B65G47/30 B65G47/52 (Advanced/Invention); B04B11/00 B65B3/04 B65B55/02 B65B55/04 B65B61/00 B65G47/30 B65G47/52 (Core/Invention)

CPC: B65B55/025 B65B55/04 B65G47/525 B65G2201/0235 B65B55/027 B65B55/10 B65G47/52

European: B65B55/02C B65B55/02D B65B55/04 B65B55/10 B65G47/52B L65G201/02F

US: 53/111R 53/167 53/266.1 53/425 53/426 53/467



Family:

Publication number	Publication date	Application number	Application date
AU2005283478 AA	20060323	AU20050283478	20050913
AU2005283478 BB	20091119	AU20050283478	20050913

AU2005283478 BH	20100408	AU20050283478	20050913
AU2005283478 BI	20100401	AU20050283478	20050913
CA2578547 AA	20070227	CA20052578547	20050913
CA2578547 C	20090908	CA20052578547	20050913
CN100579870 C	20100113	CN200580030494	20050913
CN101018711 A	20070815	CN200580030494	20050913
DE602005018797 D1	20100225	DE200560018797T	20050913
EP1790571 A1	20070530	EP20050783138	20050913
EP1790571 A4	20070905	EP20050783138	20050913
EP1790571 B1	20100106	EP20050783138	20050913
JP2006030790 A1	20080515	JP20060535153T	20050913
JP4784766 B1	20111005	JP20060535153T	20050913
JP4784766 B2	20111005	JP20060535153T	20050913
KR100841273 B1	20080625	KR20077005963	20050913
KR20070054202 A	20070528	KR20077005963	20070314
US2007266677 AA	20071122	US20050662497	20050913
US7685794 BB	20100330	US20050662497	20050913
WO06030790 A1	20060323	WO2005JP16852	20050913

Priority:

JP20040267287 20040914 JP20060535153 20050913 WO2005JP16852 20050913
WO2005JP16852 20070314

Probable Assignee: TOYO SEIKAN KAISHA LTD

Assignee(s): (std): ASADA YOSHINORI ; INABA SHOICHI ; IWASHITA TAKESHI ; NAGATANI NOBUAKI ; TOYO SEIKAN GROUP HOLDINGS LTD ; TOYO SEIKAN KAISHA LTD

Inventor(s): (std): NAGATANI NOBUAKI ; ASADA YOSHINORI ; IWASHITA TAKESHI ; INABA SHOICHI ; SHOICHI NAGATANI NOBUAKI ASADA ; NOBUAKI NAGATANI ; SHOICHI INABA ; TAKESHI IWASHITA ; YOSHINORI ASADA

Inventor(s): NAGATANI NOBUAKI ASADA YOSHINORI IWASHITA... ; ASADA YOSHINORI TOYO SEIKAN KAISHA LTD ; IWASHITA TAKESHI TOYO SEIKAN KAISHA LTD ; NAGATANI NOBUAKI TOYO SEIKAN KAISHA LTD ; INABA SHOICHI TOYO SEIKAN KAISHA LTD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; KIRBY EADES GALE BAKER; VON KREISLER SELTING WERNER; WESTERMAN HATTORI DANIELS AND ADRIAN LLP

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

9) Family number: 74308513 (CN208853417U)

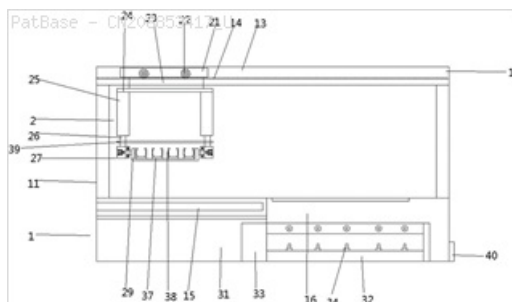
© PatBase

Title: A functional beverage bottle washing device (Machine translation)

Abstract: Source: CN208853417U **Machine translation:** The utility model provides a functional beverage bottle washing apparatus includes a base and automatic clamping device, the upper end of the base is provided with vertical bar, vertical rod end fixedly connected to the horizontal plate, automatic clamping device is mounted on the horizontal version, automatic clamping device comprises a mobile device, the telescopic device and the turning device, the mobile device comprises a mobile base, mobile base outer end is provided with moving gear, clamping seat is provided with semicircular clamping lever, easy clamping beverage bottles, the turning device can facilitate gripping holder clamping and lowering drinks to develop the position of rotation of the flipping means when flushing, flushing and flushing is complete can make more uniform outflow water bottle beverage bottle upside down, telescopic rod located flip seat, the cover plate provided on the upper end of the cover while flushing flushing chamber entry port to prevent water splashing.

Classifications:

International (IPC 8-9): B08B9/30 B08B9/42 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN208853417 U	20190514	CN201821209535U	20180730

Priority:

CN201821209535U 20180730

Probable Assignee: FOSHAN HI JOY BEVERAGE CO LTD

Assignee(s): FOSHAN HI JOY BEVERAGE CO LTD

10) Family number: 47638537 (EP2253941B1)

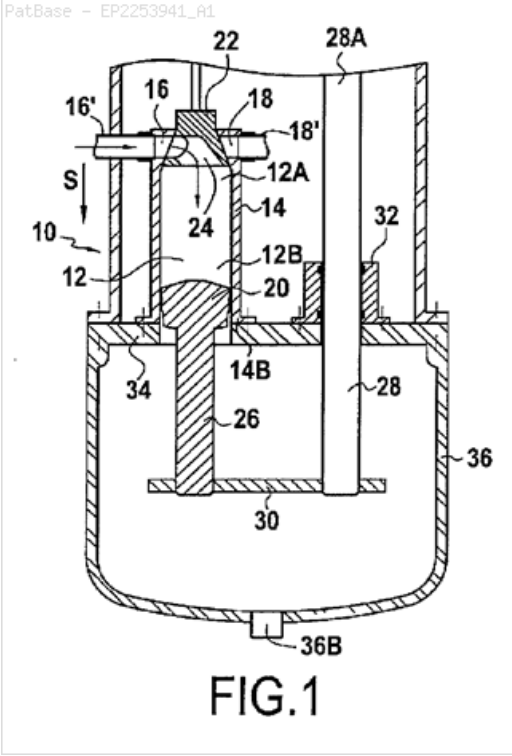
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Title: DEVICE FOR DELIVERING METERED QUANTITIES OF A LIQUID OR PASTY PRODUCT DISPOSITIF POUR DELIVRER DES QUANTITES DOSEES DE PRODUIT LIQUIDE OU PATEUX </TI_FR

Abstract: The device has a product dosing and delivering equipment (10) comprising a dosing chamber (12) formed in a cylinder (14). A piston is handled by an operating rod (26) extended from one end (12A) of the chamber towards another end (12B). The operating rod is connected to a control rod (28). The control rod is activated from its end (28A) located in a side of the former end of the chamber. An end of the cylinder opposite to the former end of the chamber is opened into a reception enclosure (36), where the control rod is extended into the enclosure.

Classifications:

International (IPC 8-9): B65B3/32 B65D83/76 G01F11/02 G01F11/04 G01F11/06 (Advanced/Invention)
CPC: G01F11/021
European: G01F11/02B



Family:

Publication number	Publication date	Application number	Application date
CN101922955 A	20101222	CN201010240125	20100519
CN101922955 B	20131106	CN201010240125	20100519
EP2253941 A1	20101124	EP20100163123	20100518
EP2253941 B1	20170823	EP20100163123	20100518
ES2648050 T3	20171228	ES20100163123T	20100518
FR2945798 A1	20101126	FR20090053324	20090519
FR2945798 B1	20150925	FR20090053324	20090519
TR201718394 T4	20171221	TR20170018394T	20100518

Priority:

FR20090053324 20090519 EP20100163123 20100518

Probable Assignee: ERCA

Assignee(s): (std): ERCA ; ERCA FORMSEAL

Inventor(s): (std): COOPER TIMOTHY ; SCHWAB DOMINIQUE ; GUYOT GILLES ; GUYOT G ; SCHWAB D ; COOPER T ; G GUYOT ; T COOPER ; D SCHWAB

Inventor(s): GGUYOT ; DSCHWAB ; TCOOPER ; GILLES GUYOT ; DOMINIQUE SCHWAB ; TIMOTHY COOPER

Agent(s): INTES DIDIER GERARD ANDRE; VEIGA MIKEL; CABINET BEAU DE LOMENIE; CEMEN KARABAG

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

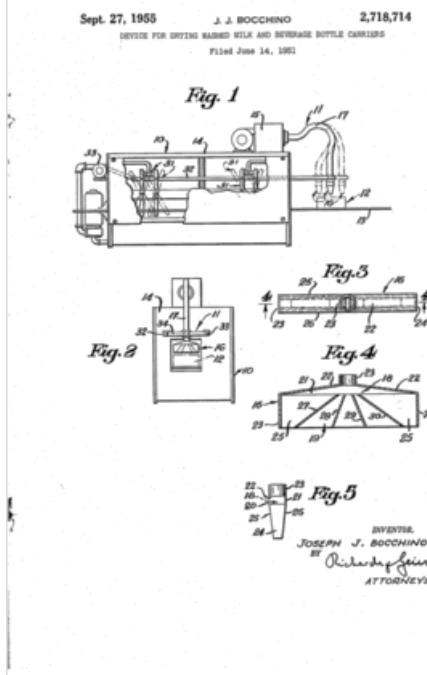
11) Family number: 22378547 (US2718714A) © PatBase

Title: DEVICE FOR DRYING WASHED MILK AND BEVERAGE BOTTLE CARRIERS

Abstract: (Claim 1) What is claimed is: A drying head for containers, transported by an endless bqlt.

Classifications:

International (IPC 8-9): B08B9/08 (Advanced/Invention);
B08B9/08 (Core/Invention)
International (IPC 1-7): F26B19/00
CPC: B08B9/0861
European: B08B9/08Y
US: 134/102.3 134/99.1 239/553.5 34/105 34/229 34/236

**Family:**

Publication number	Publication date	Application number	Application date
US2718714 A	19550927	US19510231471	19510614

Priority:

US19510231471 19510614

Probable Assignee:

BOCCHINO JOSEPH J

Assignee(s): (std):

BOCCHINO JOSEPH J

Inventor(s): (std):

BOCCHINO JOSEPH J

12) Family number: 3514550 (US4531250A)

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Title: Water turbine and brush head using the water turbine for cleaning pipes

Abstract: The water turbine provided by the present invention comprises a rotor which forms a rotor blade on one end and is bored with an exhaust liquid channel on the center of the axis to open to the center of the rotor blade, an inner casing which is bored with a nozzle on the circumference thereof and which supports said rotor in a manner to surround the rotor blade of the rotor and an outer casing having a liquid inlet port which defines a pressure chamber with the inner casing, and can be made so compact as to be held in a hand. The brush head for the pipe cleaning device which utilizes the water turbine as a driving source is so constructed that a brush is formed on an end of the rotor of the water turbine wherein the dirt or scale adhered to the inner surface of a pipe are peeled off with a rapidly revolving brush and then washed away with the pressurized liquid which has been used for revolving the water turbine.

Classifications:

International (IPC 8-9): A46B13/06 A61C17/22 B08B9/02 B08B9/04 B08B9/047 F03B1/00 F03B13/00 F03B13/04

F28G3/04 (Advanced/Invention);
 A46B13/00 A61C17/16 B08B9/02 F03B1/00 F03B13/00

F28G3/00 (Core/Invention)

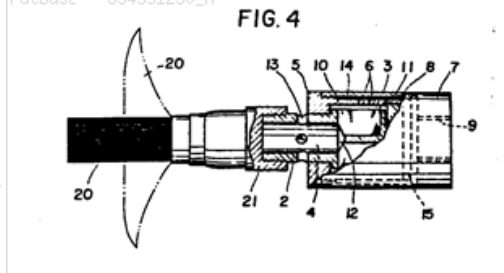
International (IPC 1-7): A46B13/06 A61C17/22 B08B9/02 F03B1/00 F03B13/00 F03B13/08 F28G3/04

CPC: B08B9/047 B08B9/051 F03B13/04 F28G3/04 Y02E10/223

European: B08B9/047 B08B9/051 F03B13/04 F28G3/04 Y02E10/22B

US: 15/104.12 15/29

PatBase - US4531250_A

**Family:**

Publication number	Publication date	Application number	Application date
DE3367960 D1	19870115	DE19833367960	19830915
EP0105649 A1	19840418	EP19830305393	19830915
EP0105649 B1	19861126	EP19830305393	19830915
JP1509920 C3	19890726	JP19820173745	19821002
JP1587407 C3	19901119	JP19820162298	19820920
JP2007659 B4	19900220	JP19820162298	19820920
JP59051808 A2	19840326	JP19820162298	19820920
JP59054775 A2	19840329	JP19820173745	19821002
JP63064630 B4	19881213	JP19820173745	19821002
US4531250 A	19850730	US19830501193	19830606

Priority:

JP19820162298 19820920

JP19820173745 19821002

JP19820173745 19821002

Probable Assignee: KYOWA KIKAI KOGYO KK**Assignee(s):** (std): KYOWA KIKAI KOGYO KABUSHIKI KA ; KYOWA KIKAI KOGYO KK**Assignee(s):** KIYOUWA KIKAI KOGYO KK ; KYOWA KIKAI KOGYO KABUSHIKI KAISHA**Inventor(s):** (std): WATANABE KEISHIYOU ; WATANABE YOSHINORI**Inventor(s):** WATANABE KEISHO**Designated states:** DE FR GB IT**13) Family number: 31517662** (US2007272877A)

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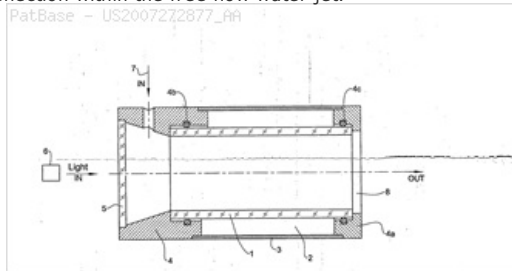
Title: IN-LINE TREATMENT OF LIQUIDS AND GASES BY LIGHT IRRADIATION

Abstract: An in-line reactor for the treatment of liquids or gasses by light radiation is disclosed. The reactor is made of tube, pipe, or chamber made of a transparent material, having at least one fluid inlet and correspondingly at least one fluid outlet. The transparent material of the tube is selected such that its refractive index is as possible close to the refractive index of the fluid to be treated. Air gap is kept around the outer transparent walls of the reactor, in order to allow for total internal reflection inside the reactor, of light directed into it from a light source in angles of incidence greater than the critical angle. Fluid treatment systems comprising at least one said in-line reactor are also disclosed. Furthermore, method of in-line fluid treatment, and especially of water sterilization and disinfection and aseptic filling of water are disclosed. Surfaces hit by the in-line disinfected water after being launched through an outlet nozzle, could also be sterilized by launching the water with the same UV light used for the in-line treatment locked in total internal reflection within the free flow water jet.

Classifications:

International (IPC 8-9): A23B7/00 A23L3/26 A61L2/02 A61L2/025 A61L2/08 A61L2/10 A61L2/18 A61L2/24 A61L9/01 A61L9/20 B01D53/00 B01J19/10 B01J19/12 B08B13/00 B08B3/10 B08B3/12 B65B55/08 B65B55/10 B65B55/16 C02F1/30 C02F1/32 C02F1/36 C02F1/50 C02F1/72 G01N21/01 (Advanced/Invention); C02F1/32 C02F1/34 (Advanced/Non-invention); A23B7/00 A23L3/26 A61L2/00 A61L2/02 A61L2/08 A61L2/10 A61L2/18 A61L9/18 B01J19/10 B01J19/12 B08B13/00 B08B3/10 B08B3/12 B65B55/04 C02F1/30 C02F1/32 C02F1/34 G01N21/01 (Core/Invention); C02F1/32 C02F1/34 (Core/Non-invention)

International (IPC 1-7): A61L2/025 A61L2/10 A61L2/18 B01D53/00 B65B1/34 B65B55/08 C02F1/32 C02F1/34 **CPC:** A61L2/10 A61L2/183 A61L9/205 C02F1/32 C02F1/34 **European:** A61L2/10 A61L2/18L A61L9/20P M02F1/32 M02F1/34 **US:** 134/1 134/115.00RS 134/115R 134/198 134/198S 134/1P 210/748 250/372 250/372S 250/428 250/431 250/431P 250/432.00RS 250/432R 250/435 250/435S 250/437 422/1 422/127 422/127S 422/186.3 422/186.300S 422/1S 422/20 422/20S 422/22 422/22S 422/24 422/24P 422/24S 422/292 422/292S 426/335 426/335S

**Family:**

Publication number	Publication date	Application number	Application date
DE602004044317 D1	20140227	DE200460044317T	20040804
EP1654006 A1	20060510	EP20040745057	20040804
EP1654006 B1	20140122	EP20040745057	20040804
EP1654007 A1	20060510	EP20040745058	20040804
IL157229 A0	20040219	IL20030157229	20030804
IL157229 A1	20060820	IL20030157229	20030804
JP2007501693 T2	20070201	JP20060522493T	20040804
JP2007502200 T2	20070208	JP20060522492T	20040804
US2007272877 AA	20071129	US20040566992	20040804
US2009000639 AA	20090101	US20040566983	20040804
US2010178201 AA	20100715	US20100729326	20100323
US7683344 BB	20100323	US20040566992	20040804
WO05011753 A1	20050210	WO2004IL00717	20040804
WO05011754 A1	20050210	WO2004IL00718	20040804

Priority:

IL20030157229 20030804 EP20040745057 20040804 WO2004IL00717 20040804
 WO2004IL00718 20040804 US20070566992 20070104 US20100729326 20100323

Probable Assignee: ATLANTIUM TECHNOLOGIES LTD**Assignee(s):** (std): ATLANTIUM TECHNOLOGIES LTD ; COHEN GIL ; COHEN GIL B ; TRIBELSKY ZAMIR ; RABANI JOSEPH ; NAVON MORDECHAI ; ROZENBERG YITZHAK ; LEVY URI ; ATLANTIUM LASERS LTD**Assignee(s):** ATLANTIUM TECHNOLOGIES LIMITED ; ATLANTIUM LASERS LIMITED ; GIL B COHEN ; ZAMIR TRIBELSKY ; JOSEPH RABANI ; MORDECHAI NAVON**Inventor(s):** (std): COHEN GIL ; COHEN GIL B ; NAVON MORDECHAI ; RABANI JOSEPH ; ROZENBERG YITZHAK ; TRIBELSKY ZAMIR ; LEVY URI**Inventor(s):** MORDECHAI NAVON ; ZAMIR TRIBELSKY ; GIL B COHEN ; JOSEPH RABANI**Agent(s):** DAWSON ELIZABETH ANN; PEARL COHEN ZEDEK LATZER BARATZ; REINHOLD COHN AND PARTNERS; PEARL COHEN ZEDEK LATZER LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA BG GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**14) Family number: 32424663** (CN2734099Y)

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Title: Fruit washing device

Abstract: The utility model relates to a fruit washing device, belonging to the technical field of the small group of the vegetable washing device, etc. of the small class of the kitchen utensil, the coffee grinder, the flavor grinder, and the beverage making device of the personal or household article sub-portion of the human being living need portion according to the partition of the International Patent Classification (IPC). The fruit washing device aims at cleanly cleaning fruits. The fruit washing device can wash various fruits, and solves the problem of convenience and quickness. The fruit washing device is mainly composed of a box cover, a box body, a handle, a spray pot, a fruit cavity, a pot cover, a linking rod, and a pushing handle. The fruit washing device is characterized in that the two end positions of the handle are connected on one end position of the linking rod in a glued mode, and the other end position of the linking rod is connected on one edge position of the pushing handle in a glued mode. The bottom end position of the pot cover is connected on the top end position of the spray pot by threads. One side position of the spray pot is nested and connected on the inner side position of the box body. The fruit washing device has wide purposes, simple manufacture, and easy popularization.

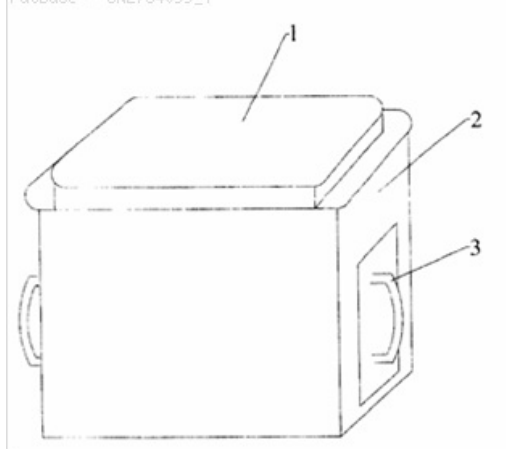
Classifications:

International (IPC 8-9): A47J43/24 (Advanced/Invention);

A47J43/00 (Core/Invention)

International (IPC 1-7): A47J43/24

PatBase - CN2734099_Y



Family:

Publication number	Publication date	Application number	Application date
CN2734099 Y	20051019	CN200420066536U	20040623

Priority:

CN200420066536U 20040623 CN20042066536U 20040623

Probable Assignee: YANG GE

Assignee(s): (std): YANG GE

Inventor(s): (std): WANG LIMING ; WU YANRONG ; YANG GE

Inventor(s): YANRONG WU ; GE YANG ; LIMING WANG

15) Family number: 46421780 (US2010196531A)

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Title: REDUCTION OF WEAR ON CONTROL CAMS

Abstract: An apparatus for treating containers such as, for example, liquid containers, may include at least one treatment unit, which treats the containers in a predetermined manner. The treatment unit may be moved along a specified path of travel. The apparatus may include a guiding cam, which is designed in such a way that it causes at least once along the path of travel a movement of the treatment unit in a direction extending vertically relative to the path of travel. The treatment unit may include a guiding element, which is at least at times in contact with the guiding cam, and wherein a force acting between the guiding element and the guiding cam varies at least at times along a specified area of the path of travel. In various aspects, the apparatus may include a force reduction device, which causes the force acting at a certain point of the area between the guiding cam and the guiding element to be reduced at least on average.

Classifications:

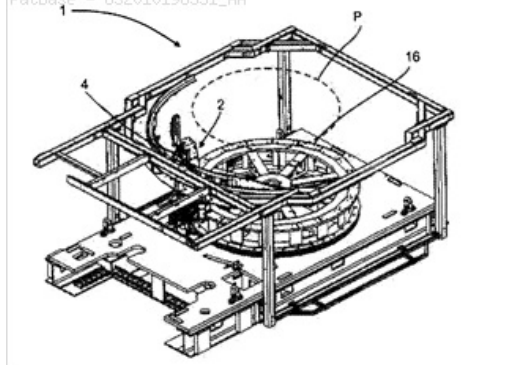
International (IPC 8-9): B23Q1/25 B23Q7/00 B28B11/00 B28B17/00 B29C49/36 B29C49/42 B65G47/84 (Advanced/Invention); B23Q1/25 B23Q7/00 B28B11/00 B28B17/00 B29C49/28 B29C49/42 B65G47/84 (Core/Invention)

CPC: B29C49/42 B67B3/28 B67C3/22 Y10T29/49998 Y10T74/2101

European: B29C49/42

US: 269/55 269/55S 29/559 29/559S 425/150 425/150S 425/3 425/506 425/506P 425/522 425/524 425/540 74/567

PatBase - US2010196531_AA



Family:

Publication number	Publication date	Application number	Application date
CN101798021 A	20100811	CN201010121158	20100205
CN101798021 B	20140129	CN201010121158	20100205
DE102009007717 A1	20100812	DE200910007717	20090205
EP2233273 A2	20100929	EP20100152360	20100202
US2010196531 AA	20100805	US20100700171	20100204
US8162639 BB	20120424	US20100700171	20100204

Priority:

DE200910007717 20090205

Probable Assignee: KRONES AG

Assignee(s): (std): HOELLRIEGL THOMAS ; KRONES AG ; STEINBERGER HARALD ; WINZINGER FRANK
Inventor(s): (std): STEINBERGER HARALD ; WINZINGER FRANK ; HOELLRIEGL THOMAS ; THOMAS HOELLRIEGL ; FRANK WINZINGER ; HARALD STEINBERGER
Agent(s): BITTNER BERNHARD; RISSMAN HENDRICKS AND OLIVERIO LLP
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

16) Family number: 32064797 (WO05061393A1)

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Title: WATER DISPOSAL PLANT

Abstract: There is provided a water disposal plant which converts the water flowing through a pipe of a boiler or a vehicle and the water reserved in a fish globe or a fresh water container into an alkaline deoxidation water, prevents generation of a scale in a pipe and erosion, and improves fuel ratio by installing it in a fuel tank of a vehicle, a boiler, or the like. The water disposal plant comprises a pipe body having a cylindrical body portion, in which porous plates are installed at both side surfaces of the body portion to pass the water, cathode generating bodies of granule type which makes contact with the water passing through the pipe body to generate the deoxidation potentialization and in which the filling amount thereof into the pipe body can be regulated, at least two high negative electricity generating bodies having a bar shape and installed lengthwisely on the wall surface of the pipe body, connecting bodies which fix the high negative electricity generating bodies to the wall surfaces of the pipe body, and an induction body installed in the front side porous plates of the pipe body.

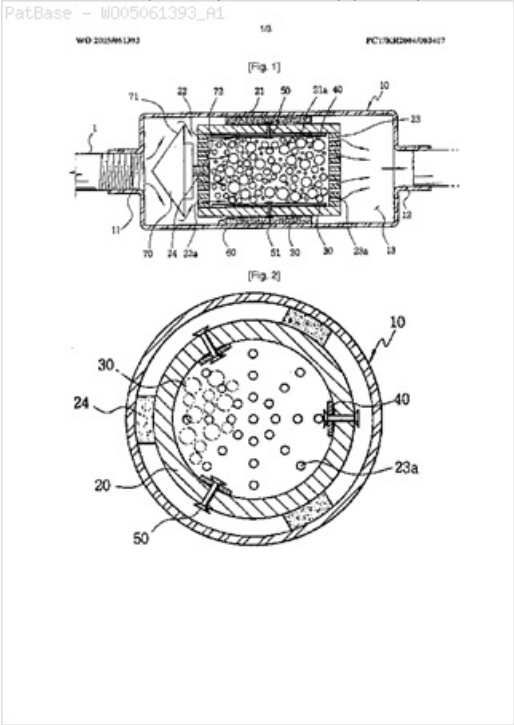
Classifications:

International (IPC 8-9): C02F1/46 C02F1/461 C02F1/48 (Advanced/Invention); C02F1/46 C02F1/48 (Advanced/Non-invention); C02F1/46 C02F1/461 C02F1/48 (Core/Invention)

International (IPC 1-7): C02F1/46 C02F1/48

CPC: C02F1/4602 C02F1/46114 C02F1/46176 C02F2001/4619 C02F2303/08

European: C02F1/461B2B C02F1/461B4 C02F1/46C M02F1/461B6D M02F303/08



Family:

Publication number	Publication date	Application number	Application date
KR100563567 B1	20060327	KR20030095997	20031224
KR20050064534 A	20050629	KR20030095997	20031224
WO05061393 A1	20050707	WO2004KR03407	20041222

Priority:

KR20030095997 20031224

Probable Assignee: HOAMMAREA CO LTD

Assignee(s): (std): HOAMMAREA CO LTD ; HOAMMAREA CO LTD ; LEE SANG JIN

Assignee(s): HOAMMAREA CO ; HOAMMAREA CO

Inventor(s): (std): LEE SANG JIN

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

17) Family number: 22435866 (US2682881A)

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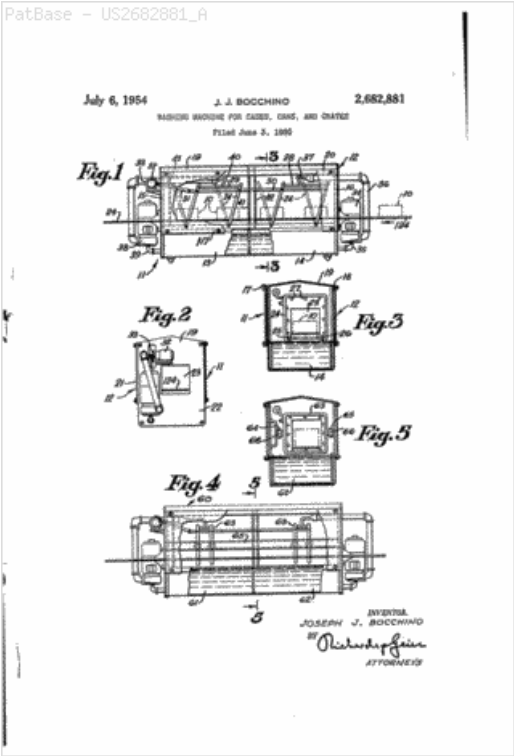
Title: WASHING MACHINE FOR CASES, CANS, AND CRATES

Abstract: (Claim 1) 1. A washing device for cases and the like, comprising an elongated tank structure having an open top, a case carrying belt extending above the tank structure and movable in the longitudinal direction of the tank structure, a superstructure having members disposed on opposite sides of the tank structure, end members disposed on opposite ends of the tank structure and connected with the first-mentioned members, the second-mentioned members having elined openings formed therein for the passage of the cases, and supports carried by the first-mentioned members; a plurality of longitudinally spaced pipe-frames enclosing said belt and having outlets upon the inner sides thereof for the spraying of cases upon said belt, a pipe line interconnecting said pipe-frames, means connected with said supports for supporting said pipe line in the direction of movement of said belt and in the opposite direction, said pipe line being arranged to spray cases upon said belt.

rod connected with said pipe-frames, a link connected with said driving rod, a fly-wheel connected with said link, Q. prime mover connected with sei link, and a pump connected with said pipe line and connected with said tank structure below the level of the liquid therein.

Classifications:

International (IPC 8-9): B08B3/02 (Advanced/Invention);
B08B3/02 (Core/Invention)
International (IPC 1-7): B08B3/02
CPC: B08B3/022
European: B08B3/02B
US: 134/129 134/130 134/144 134/174 134/181 134/199 239/263.2



Family:

Publication number	Publication date	Application number	Application date
US2682881 A	19540706	US19500165936	19500603

Priority:

US19500165936 19500603

Probable Assignee: BOCCHINO JOSEPH J
Assignee(s): (std): BOCCHINO JOSEPH J
Inventor(s): (std): BOCCHINO JOSEPH J

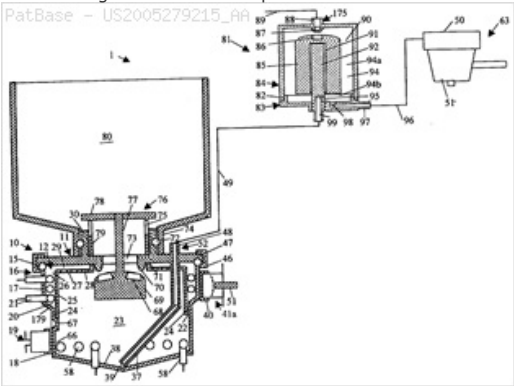
18) Family number: 31880877 (US2005279215A) © PatBase

Title: FLUID DELIVERY SYSTEM FOR GENERATING PRESSURIZED HOT WATER PULSES

Abstract: Apparatus for generating and delivering a pressurized hot water pulse to a brewing station comprises a water inlet adapted to close during delivering the pulse, an outlet for the pulse, a generator comprising a water heating chamber for receiving a amount of water via the inlet and for heating the water therein to produce sufficiently hot water for the brewing station, a pressurization chamber for vaporizing water to generate pressurized steam to deliver the hot water as a pressurized hot water pulse to the brewing station through the outlet, and a heating system for the heating and the vaporization of the water in said pulse generator. The chamber has a first end adapted to receive pressurized steam and a second end close to the hot water intake port of the inlet. The pressurization chamber is adapted to provide pressurized steam to the first end of the heating chamber in such a manner that substantially no interaction occurs between the pressurized steam and the hot water between the first and second ends of the heating chamber, thereby substantially preventing the overheating of the hot water by the pressurized steam. The pulse generator is adapted to cause water to flow into the pressurization chamber from the water heating chamber or inlet for the generation of the pressurized steam.

Classifications:

International (IPC 8-9): A47J31/00 A47J31/30 A47J31/46
A47J31/54 (Advanced/Invention);
A47J31/00 A47J31/24 A47J31/44 (Core/Invention)
International (IPC 1-7): A47J31/00
CPC: A47J31/30 A47J31/46 A47J31/46S A47J31/54
European: A47J31/30 A47J31/46 A47J31/46S2 A47J31/54
US: 99/279 99/293 99/302R 992/930



Family:

Publication number	Publication date	Application number	Application date
CA2543207 AA	20060421	CA20042543207	20041014
CN1867282 A	20061122	CN200480030634	20041014
EP1686878 A2	20060809	EP20040795334	20041014
EP1686878 A4	20070620	EP20040795334	20041014

IN01226KN2006 A	20070427	IN2006KN01226	20060511
US2005279215 AA	20051222	US20030691031	20031022
US7281467 BB	20071016	US20030691031	20031022
WO05041729 A2	20050512	WO2004US34154	20041014
WO05041729 A3	20060112	WO2004US34154	20041014

Priority:

US20030691031 20031022 WO2004US34154 20041014

Probable Assignee: HOUSEHOLD TECHNOLOGY GROUP LLC

Assignee(s): (std): CAI EDWARD Z ; HOUSEHOLD TECHNOLOGY GROUP LLC

Inventor(s): (std): CAI EDWARD Z

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; EDWARD Z CAI

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