

#### Search history

Search 1: RETRACTABLE AND DISPLAY AND CONVEYOR AND BASKET (Results 83)

1) Family number: 33006789 (GB2435638 A1)

© PatBase

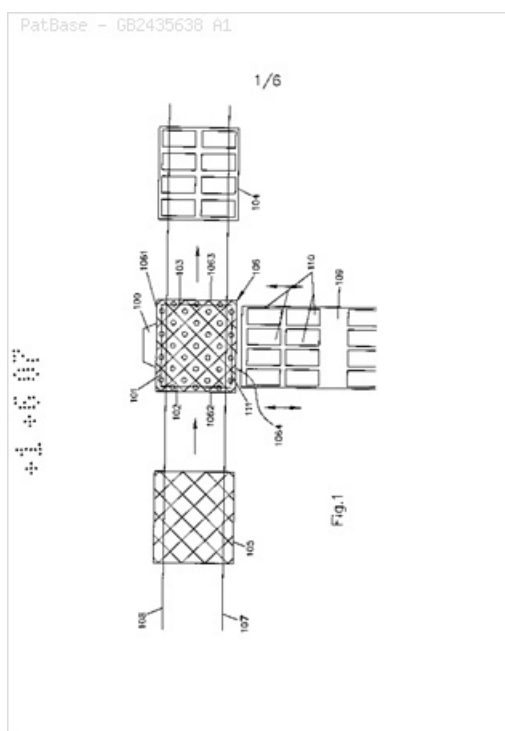
**Title:** Basket loading machine

**Abstract:** This machine relates to a machine for loading baskets, particularly, but not exclusively, loading bread into bread baskets. The basket loading machine (1) is suitable for loading a first and second type of basket, each basket including a plurality of apertures in its base, wherein the configuration of the apertures in the first type of basket differ to that of the second basket. The machine comprises a first set (3) and second set (4) of pins for loading the said baskets, where first set of pins (3) correspond to and are suitable for loading the first type of basket and the second set of pins (4) correspond to and are suitable for loading the second type of basket. The sets are upwardly and downwardly movable relative to one another so that a selected set protrudes above the other for use.

**Classifications:**

**International (IPC 8-9):** B65B25/16 B65B5/06 B65B59/00

**CPC:** B65B25/16 B65B5/068 B65B59/00



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| GB200604372 A0     | 20060412         | GB20060004372      | 20060303         |
| GB2435638 A1       | 20070905         | GB20060004372      | 20060303         |
| GB2435638 B2       | 20101103         | GB20060004372      | 20060303         |

#### Priority:

GB20060004372 20060303

**Probable Assignee:** AUTARKY MACHINE CO THE LTD

**Assignee(s):** (std): AUTARKY AUTOMATION LTD ; AUTARKY MACHINE CO LTD ; AUTARKY MACHINE CO THE LTD

**Assignee(s):** AUTARKY MACHINE CO ; AUTARKY MACHINE CO THE LIMITED ; THE AUTARKY MACHINE CO LIMITED

**Inventor(s):** (std): NORTH DONALD RICHARD

**Inventor(s):** DONALD RICHARD NORTH

2) Family number: 28822755 (US2003125140 AA)

© PatBase

**Title:** ADJUSTABLE BASKETBALL SYSTEM AND METHOD

**Abstract:** A basketball system that includes a movable platform and a pole rotatably mounted to the movable platform. The pole has either a curved or an angled region, and also has an axis of rotation. The basketball system also includes a backboard mounted to the pole and a rim mounted to the backboard. The rim has a vertical central axis that is coaxial with the axis of rotation of the pole. In addition, the movable platform is horizontally adjustably mounted to a base. A controller may be employed to control the operation of the system, such as by adjusting the distance and rotation of the pole in

accordance with a stored program or a user defined preference, by starting and stopping a ball return system in accordance with the player pace of shooting, etc.

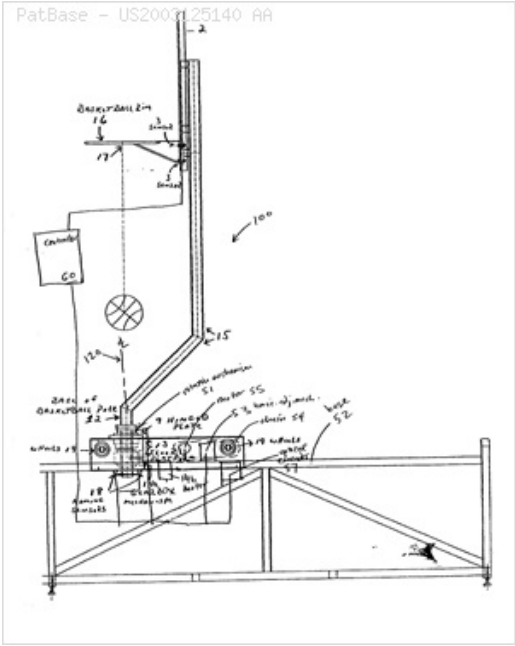
**Classifications:**

**International (IPC 8-9):** A63B63/00 A63B63/06 A63B63/08 A63B69/00

**International (IPC 1-7):** A63B63/08 A63F7/20

**CPC:** A63B2063/001 A63B2063/065 A63B63/083 A63B69/0071

**US:** 273/317.3 273/371 473/433 473/480 473/481 473/480P



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2003125140 AA    | 20030703         | US20020231786      | 20020830         |
| US6918591 BB       | 20050719         | US20020231786      | 20020830         |

**Priority:**

US20010316419P 20010831 US20020231786 20020830

**Probable Assignee:**

D AMICO KARL

**Assignee(s): (std):**

D AMICO KARL ; RICHMOND JACK

**Inventor(s): (std):**

D AMICO KARL ; RICHMOND JACK

**Inventor(s):**

JACK RICHMOND ; KARL D AMICO

**Agent(s):**

KENYON AND KENYON

**3) Family number: 46625082 (US2010213027 AA)**

© PatBase

**Title:** CONVEYOR-BASED MEMORY-MODULE TESTER WITH ELEVATORS DISTRIBUTING MOVING TEST MOTHERBOARDS AMONG PARALLEL CONVEYORS FOR TESTING

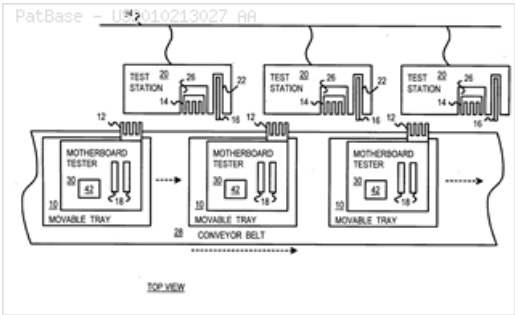
**Abstract:** A conveyor-stack test system has motherboards that test memory modules. The motherboards are not stationary but are placed inside movable trays that move along conveyors. A loader-unloader removes tested memory modules from test sockets on the motherboards and inserts untested memory modules into the motherboards using a robotic arm. A conveyor carries the motherboards from the loader-unloader to an elevator. The elevator raises or lowers the motherboards to different levels in a conveyor stack with multiple levels of conveyors each with many test stations. The motherboards move along conveyors in the conveyor stack until reaching test stations. A retractable connector from the test station extends to make contact with a motherboard connector to power up the motherboard, which then tests the memory modules. Test results are communicated from the test station to a host controller, which instructs the loader-unloader to sort the tested memory modules once the motherboard returns.

**Classifications:**

**International (IPC 8-9):** B65G37/00 G01R31/00 G01R31/20 G06F11/07

**CPC:** B65G47/71 G11C29/56 G11C29/56016 G11C5/04

**US:** 198/346.1 198/346.100P 324/756.02 324/756.020P 324/757.01 714/30 714/30S 714/E11.023 714/E11.023S 714/E11.024 714/E11.024S 714/E11.025 714/E11.025S



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2010213027 AA    | 20100826         | US20090392387      | 20090225         |
| US7960992 BB       | 20110614         | US20090392387      | 20090225         |
| US2011193585 AA    | 20110811         | US20110089108      | 20110418         |
| US8022721 BB       | 20110920         | US20110089108      | 20110418         |

**Priority:**

US20090392387 20090225 US20110089108 20110418

**Probable Assignee:**

KINGSTON TECHNOLOGY CORP

**Assignee(s): (std):**

KINGSTON TECHNOLOGY CORP

**Inventor(s):** (std): CO RAMON S ; SUN KEVIN J  
**Agent(s):** GPATENT LLC; STUART T; STUART T AUVINEN

**4) Family number: 46627386** (US2010218050 AA)

© PatBase

**Title:** PARKING STRUCTURE MEMORY-MODULE TESTER THAT MOVES TEST MOTHERBOARDS ALONG A HIGHWAY FOR REMOTE LOADING/UNLOADING

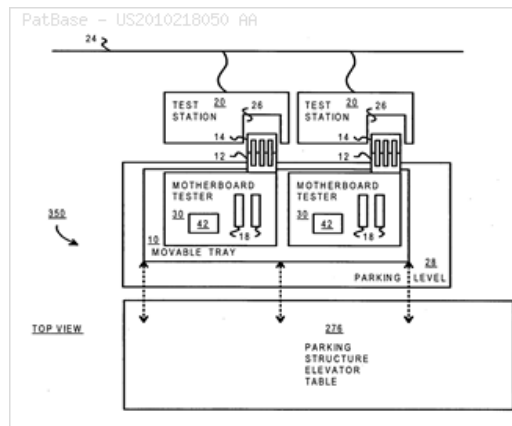
**Abstract:** A parking-structure test system has motherboards that test memory modules. The motherboards are not stationary but are placed inside movable trays that move along conveyors. An unloader removes tested memory modules from test sockets on the motherboards, and a loader inserts untested memory modules into the motherboards using a robotic arm. A conveyor carries the motherboards from the loader to a parking and testing structure. An elevator raises or lowers the motherboards to different parking levels in the parking and testing structure. The motherboards move from the elevator to test stations on the parking level. A retractable connector from the test station makes contact with a motherboard connector to power up the motherboard, which then tests the memory modules. Test results are communicated from the test station to a host controller, which instructs the loader-unloader to sort the tested memory modules once the motherboard returns via the elevator and conveyors.

**Classifications:**

**International (IPC 8-9):** G01R31/02 G01R31/20 G06F11/273

**CPC:** G11C29/56 G11C29/56016

**US:** 324/756.02 324/756.02P 324/757.01 324/757.01P 324/757.04 714/42 714/42P 714/E11.17 714/E11.1705



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2010218050 AA    | 20100826         | US20090392401      | 20090225         |
| US7884631 BB       | 20110208         | US20090392401      | 20090225         |
| US2011050268 AA    | 20110303         | US20100941196      | 20101108         |
| US8022720 BB       | 20110920         | US20100941196      | 20101108         |
| US2011298486 AA    | 20111208         | US20110210284      | 20110815         |
| US8581614 BB       | 20131112         | US20110210284      | 20110815         |

**Priority:**

US20090392401 20090225 US20100941196 20101108 US20110210284 20110815

**Probable Assignee:** KINGSTON TECHNOLOGY CORP

**Assignee(s):** (std): CO RAMON S ; KINGSTON TECHNOLOGY CORP ; SUN KEVIN J

**Inventor(s):** (std): CO RAMON S ; SUN KEVIN J

**Agent(s):** GPATENT LLC; STUART J; STUART T; STUART T AUVINEN

**5) Family number: 75674412** (CO20190007674 A1)

© PatBase

**Title:** Basket Conveyor Belt RETRACTABLE EXHIBIDORA (Machine translation)

**Abstract:** Source: CO20190007674 A1 **Machine translation:** Summary The present invention deals with the creation of a basket of transport and storage, which has a hinged wall retractable through the removable hinge allows for lifting a hinged door leaving exhibit and access the products contained still on shelves, gondolas or encarrada. Maintaining the properties of storage, pliability, stackability and transport in all stages of the supply chain, eliminating disposable packaging, repackaging and the need to move from one container to another. In at least one of its walls folding and retractable is the possibility of deploying a small door that functions as a retainer of products, which could roll or fall of the basket when it is in display mode; this serves to put product information such as Price or advertising. The self-centring and self-locking detachable hinge, floating, does not require a central axis to pivot, this hinge by its characteristics can be used in other needs of hinged doors retractable.

**Classifications:**

**International (IPC 8-9):** B65D77/00 B65D81/00 B65G1/02 F25D23/00

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CO20190007674 A1   | 20190820         | CO20190007674      | 20190717         |

**Priority:**

CO20190007674 20190717

**Probable Assignee:** ECHEVERRI VILLEGAS MARCELO

**Assignee(s):** (std): ECHEVERRI VILLEGAS MARCELO

**Inventor(s):** (std): ECHEVERRI VILLEGAS MARCELO ; RENDON VELEZ JUAN MAURICIO ; SAFFON BOTERO ANA MARIA

**Title:** JUMPER CABLE BAG

**Abstract:** Jumper cable bag with wordage on it so that it can double as a sign to request a jump start.

**Classifications:**

**International (IPC 8-9):** B65D85/00 B65H55/00

**CPC:** A45C13/08 B65H75/362 G09F21/04 G09F23/02

**US:** 206/388 206/388S 206/459.5 206/459.500S 206/702

PatBase - US2006027482 AH

Jumper Cable Bag That  
Doubles As A Sign To  
Request A Jump Start



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2006027482 AA    | 20060209         | US20040910517      | 20040803         |

**Priority:**

US20040910517 20040803

**Probable Assignee:** PEARSON DAVID A  
**Assignee(s):** (std): PEARSON DAVID A  
**Inventor(s):** (std): PEARSON DAVID A  
**Inventor(s):** PEARSON DAVID  
**Agent(s):** DAVID PEARSON

**Title:** HARVESTING AND CROP CARE MACHINE

**Abstract:** The invention discloses a single work platform solution for the vast majority of harvesting, crop care and logistic needs of the palm oil plantation industry, that will lead to and yield higher economic return of such plantation land whilst improving its ecological footprint.

**Classifications:**

**International (IPC 8-9):** A01D27/04 A01D43/06 A01D45/00

A01D46/20 A01D75/00

**CPC:** A01B51/02 A01C21/00 A01D46/20 A01D90/00

PatBase - WO18208142 A1

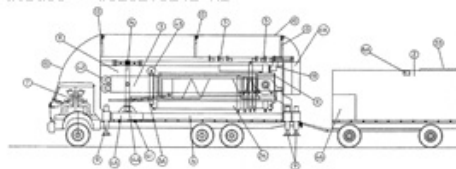


FIG. 1A

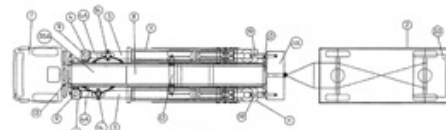


FIG. 1B

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CN110678063 A      | 20200110         | CN201880004748     | 20180504         |
| ID201905732 A      | 20190809         | ID2019PID03418     | 20180504         |
| WO18208142 A1      | 20181115         | WO2018MY50026      | 20180504         |

**Priority:**

MY20170701637 20170508 WO2018MY50026 20180504 MY20180701783 20180504

**Probable Assignee:** BIN HALIM RASIP AMIN

**Assignee(s):** (std): BIN HALIM RASIP AMIN

**Inventor(s):** (std): BIN HALIM RASIP AMIN

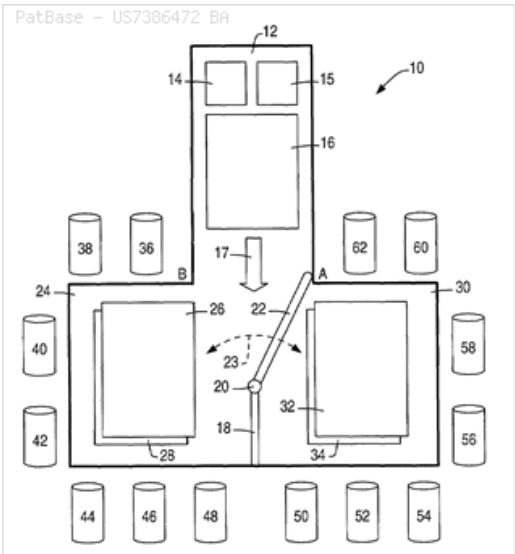
**Agent(s):** ACHMAD FATCHY; LOK CHOON HONG

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

Title: SELF-CHECKOUT TERMINAL

**Abstract:** A self-checkout lane in a store comprises an incoming goods path for receiving goods, first and second goods collection zones, and a segregation device operable under control of a computer processor to divert goods from the incoming goods path into one or the other of the two goods collection zones. The incoming goods path includes a product scanner electrically coupled to the computer processor and operable to evaluate the total retail price of a plurality of goods. The goods of a first customer are diverted to the first goods collection zone. After receiving payment for the goods, the computer processor operates the segregation device to allow the first customer to access their goods, and to meanwhile divert subsequent goods of a second customer to the second goods collection zone, thereby facilitating the swift and efficient use of the self-checkout terminals by customers. The invention also includes security means to help guard against misappropriation of goods.

**Classifications:**  
**International (IPC 8-9):** G06Q90/00  
**CPC:** G06Q10/06 G06Q20/208 G06Q40/08  
**US:** 705/23



Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US7386472 BA       | 20080610         | US20010013078      | 20011210         |

Priority:

US20010013078 20011210

**Probable Assignee:** NCR CORP

**Assignee(s):** (std): NCR CORP

**Assignee(s):** JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS

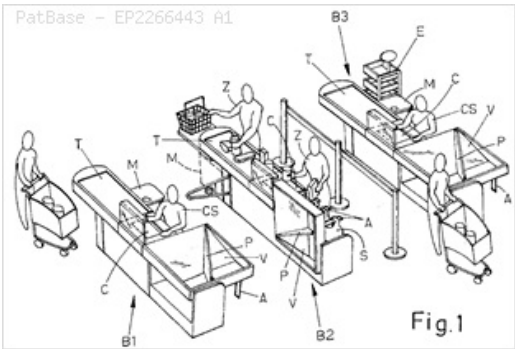
**Inventor(s):** (std): BOGAT ANTONIO R

**Agent(s):** PRIEST AND GOLDSTEIN PLLC

Title: FLEXIBLE CHECKOUT WITH POSSIBILITY OF RAPID AND SIMPLIFIED CONVERSION FROM NORMAL ASSISTED USE TO SELF-CHECKOUT USE AND VICE VERSA

**Abstract:** In a checkout that comprises in operational sequence a conveyor belt (T) on which the products are loaded, an intermediate scanning and payment unit (C), and an end tray (V, V') where the checked products are collected, the invention provides means allowing said checkout to be used by the assistant in the assisted mode, or, moving along the same side as that previously taken by the assistant, directly by the customer in the self-checkout use mode and comprises means which in the latter case allow the actual customer to directly bag the products after the scanning phase, in an area immediately downstream of said intermediate unit (C), from which said tray (V, V') for this purpose has been moved away, said tray being fitted with means allowing it to be displaced to a position still connected to the checkout but out of the way to allow the checkout to be used in the self-checkout mode. In this latter mode of use, the customer places the acquired products on the initial conveyor belt (T), then reads the barcode of each product at the intermediate unit (C), where a dedicated self-checkout software interface will be available, for payment and other purposes, and finally bags said products in the end space, where the tray is out of the way, and then pays the total cost of the purchases by any suitable and predetermined means.

**Classifications:**  
**International (IPC 8-9):** A47F9/02 A47F9/04  
**CPC:** A47F9/04



Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
|                    |                  |                    |                  |

|                 |          |                |          |
|-----------------|----------|----------------|----------|
| EP2266443 A1    | 20101229 | EP20100166131  | 20100616 |
| EP2266443 B1    | 20180214 | EP20100166131  | 20100616 |
| ES2663293 T3    | 20180411 | ES20100166131T | 20100616 |
| IT1394378 B1    | 20120615 | IT2009BO00409  | 20090624 |
| ITBO20090409 A1 | 20101225 | IT2009BO00409  | 20090624 |
| RU2010125816 A  | 20111227 | RU20100125816  | 20100623 |
| RU2541942 C2    | 20150220 | RU20100125816  | 20100623 |

**Priority:**

IT2009BO00409 20090624

**Probable Assignee:** CEFLA SOCIETA COOPERATIVA

**Assignee(s):** (std): CEFLA COOP ; CEFLA SOC COOPERATIVA ; CEFLA SOCIETA COOP ; CEFLA SOCIETA COOPERATIVA ; CHEFLA SOCH ETA KOOPERATIVA

**Inventor(s):** (std): GADDONI STEFANO ; SICKLINGER ANDREAS ; ZIKLINGER ANDREAS

**Agent(s):** ELZABURU SLP ELZABURU SLP; PORSIA ATTILIO; PORSIA DINO

**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

**10) Family number: 17649303 (DE9010177 U1)**

© PatBase

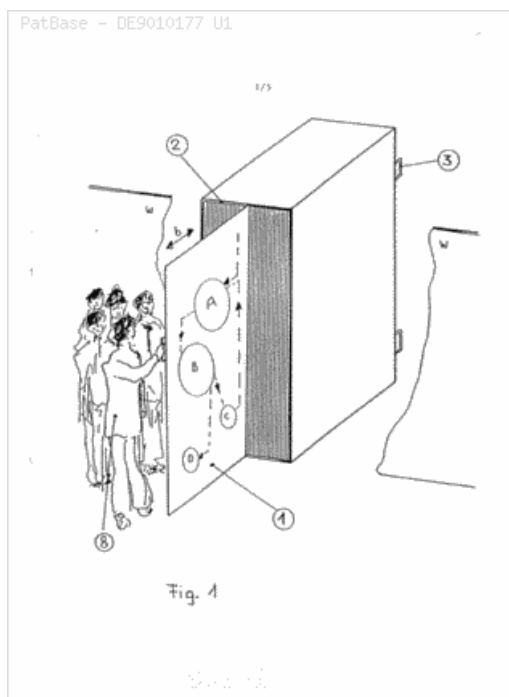
**Abstract:** Source: DE9010177 U1 **Machine translation:** (Claim 1) 1 View images for demonstration and display panels, wherein the images or display boards (1) extendable and retractable back are arranged in a frame (2).

**Classifications:**

**International (IPC 8-9):** G09F15/00

**International (IPC 1-7):** G03B23/02 G03B23/04 G09F1/00 G09F19/00

**CPC:** G09F15/0087



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE9010177 U1       | 19901018         | DE19900010177U     | 19900704         |

**Priority:**

DE19900010177U 19900704

**Probable Assignee:** GROSSMANN HANS 6906 LEIMEN DE

**Assignee(s):** GROSSMANN HANS 6906 LEIMEN DE

**11) Family number: 28366090 (US2007258772 AA)**

© PatBase

**Title:** PIPELAYING VESSEL

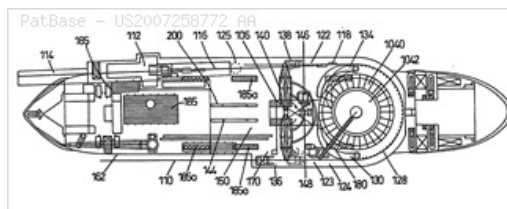
**Abstract:** There is disclosed a variety of arrangements for laying of rigid pipe from reeled storage and/or on-board welding fabrication. Thirteen independent aspects of the invention are identified. In one particular arrangement (FIGS. 3 a- 3 b), a tilting lay tower (106) having two travelling clamps (210, 220) is provided centrally on a pipelay vessel with a radius control arch (140) pivotable to receive rigid pipe from either port or starboard lay paths. A vertical axis reel or carousel (104) is provided, within an arrangement of curved take-off arms (130, 134) and a large radius curved wall (128). By these means, pipe can be loaded onto the carousel either clockwise or anti-clockwise, and can be supplied to the lay tower via the port or starboard lay path. Continuous rigid product fabricated by a selection of welding lines (112, 114, 116) at the port side can be guided around the large radius wall either for reeling onto the carousel or for direct feeding to the lay tower. A stinger 110 at the starboard side can be used for on-loading of prefabricated pipe. A pipe elevator (150) can erect larger pipe stalks (double- or quad-joints) from deck level for welding within the tower. Flexible product can be stored within an inner compartment (1042) of the carousel and laid via the same tower. The vessel may be a reversible conversion of a FPSO.

**Classifications:**

**International (IPC 8-9):** F16L1/12 F16L1/20 F16L1/23

**International (IPC 1-7):** B63B35/04 F16L1/20

CPC: B63B35/03 F16L1/203 F16L1/205  
US: 405/166 405/168.3 405/168.4 405/169 405/170



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| BRPI0407162 A      | 20060207         | BR2004PI07162      | 20040130         |
| GB200302279 A0     | 20030305         | GB20030002279      | 20030131         |
| GB200516028 A0     | 20050914         | GB20050016028      | 20040130         |
| GB2412709 A1       | 20051005         | GB20050016028      | 20040130         |
| GB2412709 B2       | 20060621         | GB20050016028      | 20040130         |
| GB200605146 A0     | 20060426         | GB20060005146      | 20040130         |
| GB2420839 A1       | 20060607         | GB20060005146      | 20040130         |
| GB2420839 B2       | 20061115         | GB20060005146      | 20040130         |
| NO20053966 A       | 20050825         | NO20050003966      | 20050825         |
| NO20053966 L       | 20050825         | NO20050003966      | 20050825         |
| US2007258772 AA    | 20071108         | US20040544046      | 20040130         |
| US7581904 BB       | 20090901         | US20040544046      | 20040130         |
| US2010040417 AA    | 20100218         | US20090543238      | 20090818         |
| WO04068012 A2      | 20040812         | WO2004GB00398      | 20040130         |
| WO04068012 A3      | 20041028         | WO2004GB00398      | 20040130         |

#### Priority:

GB20030002279 20030131 WO2004GB00398 20040130 GB20050016028 20040130  
US20040544046 20040130 US20060544046 20060522 US20090543238 20090818

**Probable Assignee:** STOLT OFFSHORE A UK CORP LTD

**Assignee(s):** (std): ACERGY UK LTD ; BOWIE MALCOLM ; BURSAUX GABRIEL A ; BURSAUX GABRIEL ANDRE ; COWIE DAVID A ; COWIE DAVID ALEXANDER ; GOSS MALCOLM J ; GOSS MALCOLM JOHN ; HARVEY GORDON S ; HARVEY GORDON SPENCER ; ROLF LEE K ; ROLF LEE KARL ; STOLT OFFSHORE LTD ; STOLT OFFSHORE LTD A UK CORP ; WELSH THOMAS G ; WELSH THOMAS GIBSON ; WILLIS STEWART K ; WILLIS STEWART KENYON

**Assignee(s):** ACERGY UK LIMITED ; STOLT OFFSHORE A UK CORP LTD ; STOLT OFFSHORE LIMITED

**Inventor(s):** (std): BOWIE MALCOLM ; BURSAUX GABRIEL A ; BURSAUX GABRIEL ANDRE ; COWIE DAVID A ; COWIE DAVID ALEXANDER ; GOSS MALCOLM J ; GOSS MALCOLM JOHN ; HARVEY GORDON S ; HARVEY GORDON SPENCER ; ROLF LEE K ; ROLF LEE KARL ; STOLT OFFSHORE LTD ; STOLT OFFSHORE LTD A UK CORP ; WELSH THOMAS G ; WELSH THOMAS GIBSON ; WILLIS STEWART K ; WILLIS STEWART KENYON

**Inventor(s):** BURSAUX GABRIEL ; COWIE DAVID ; DAVID ALEXANDER COWIE ; GABRIEL ANDRE BURSAUX ; GORDON SPENCER HARVEY ; GOSS MALCOLM ; HARVEY GORDON ; LEE KARL ROLF ; MALCOLM BOWIE ; MALCOLM JOHN GOSS ; ROLF LEE ; STEWART KENYON WILLIS ; THOMAS GIBSON WELSH ; WELSH THOMAS ; WILLIS STEWART

**Agent(s):** BROWNING BUSHMAN; BROWNING BUSHMAN PC; BROWNING BUSHMAN PC SUITE 1800

**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 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

#### 12) Family number: 20679548 (US6725206 BA)

© PatBase

**Title:** CASHIERLESS SHOPPING STORE AND COMPONENTS FOR USE THEREIN

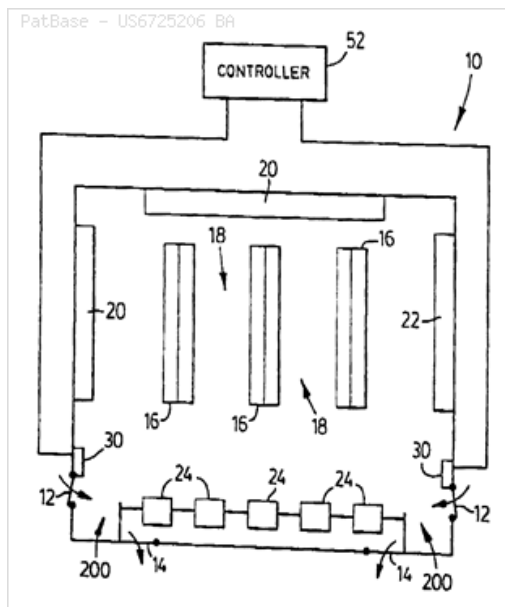
**Abstract:** A cashierless shopping store includes a plurality of shopping carts into which selected items to be purchased are placed by shoppers. Each of the shopping carts includes a weight detector to measure the weight of items placed therein and a transmitter to transmit the measured weights over a wireless communications link. A portable wireless shopping terminal accompanies each of the shopping carts. Each shopping terminal reads item price and item weight data from each selected item to be purchased and receives the measured weight of each selected item transmitted over the wireless communication link by the transmitter. The shopping terminal compares the read item weight data with the transmitted measured weight to determine if the read item weight data and the transmitted measured weight for each selected item correlate. At least one checkout station is provided and includes a scale to measure the total weight of selected items in a shopping cart and a transmitter to transmit the measured total weight over the wireless communications link to the shopping terminal accompanying that shopping cart. The shopping terminal compares the measured total weight with the sum of the read item weight data to determine if the weights correlate.

#### Classifications:

**International (IPC 8-9):** A47F10/02 A47F9/04 G01G19/08  
G01G19/387 G06K7/10 G06Q20/18 G06Q20/40 G06Q30/00  
G06Q30/02 G07C9/00 G07F7/02 G07G1/00 G07G1/14  
**International (IPC 1-7):** A47F9/04 G06F1/760 G06F17/60 G07F7/00  
G07F7/02 G07G1/00

**CPC:** A47F9/048 B62B3/1428 G01G19/12 G01G19/4144 G01G19/52  
G06Q20/20 G06Q30/0283 G07F7/02 G07G1/0054 G07G1/0081

**US:** 177/17 177/25.11 340/568.5 340/666 340/870.07 705/16  
705/400 705/414



#### Family:

| Publication number  | Publication date | Application number | Application date |
|---------------------|------------------|--------------------|------------------|
| AU199878400 A1      | 19981022         | AU19980078400      | 19980401         |
| CA2201423 AA        | 19981001         | CA19972201423      | 19970401         |
| CA2201423 C         | 20070626         | CA19972201423      | 19970401         |
| <b>US6725206 BA</b> | 20040420         | US19990410804      | 19991001         |
| <b>WO9844462 A2</b> | 19981008         | WO1998CA00280      | 19980401         |
| WO9844462 A3        | 19990211         | WO1998CA00280      | 19980401         |

#### Priority:

CA19972201423 19970401 WO1998CA00280 19980401

**Probable Assignee:** SOLBYUNG COVELEY

**Assignee(s):** (std): COVELEY MICHAEL ; MICHAEL COVELEY ; SOLBYUNG COVELEY

**Inventor(s):** (std): COVELEY MICHAEL

**Inventor(s):** MICHAEL COVELEY

**Agent(s):** BAKER AND DANIELS; SIM AND MCBURNEY

**Designated states:** AT AU BE CH CN CY DE DK ES FI FR GB GR IE IT JP KR LU MC NL NZ PT SE US

### 13) Family number: 51884462 (US2012222938 AA)

© PatBase

**Title:** LARGE BOTTLE VENDING APPARATUS AND METHOD

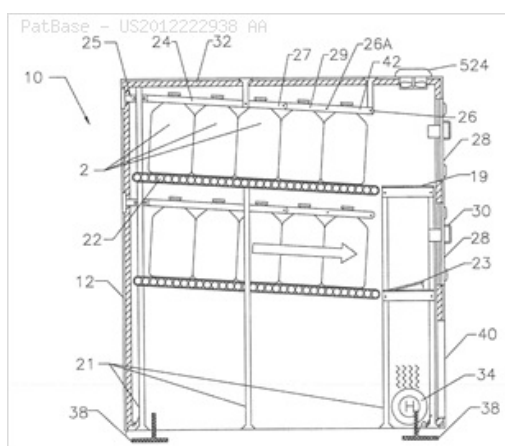
**Abstract:** A combination vending/return apparatus and method. The apparatus includes a combination of rows and columns for receiving, storing and dispensing unfilled and filled large-volume fluid-containing bottles from and to consumers. The apparatus includes a processor-controlled vending keyboard/screen for making bottle selections for purchase and returns, and to handle electronic payment and credit transactions. Also disclosed is a method to vend large-volume fluid-containing bottles and retrieve used and emptied large-volume water bottles.

#### Classifications:

**International (IPC 8-9):** B65G37/00 B65G43/08

**CPC:** B65G37/00 B65G43/08 G06Q20/18 G07F11/30 G07F11/42 G07F11/58 G07F7/0609 G07F7/08

**US:** 198/572 198/602



#### Family:

| Publication number     | Publication date | Application number | Application date |
|------------------------|------------------|--------------------|------------------|
| <b>US2012222938 AA</b> | 20120906         | US20120407452      | 20120228         |

#### Priority:

US20110448493P 20110302 US20120407452 20120228

**Probable Assignee:** ROSE III R EDWARD

**Assignee(s):** (std): ROSE III R EDWARD ; ROSE JR R EDWARD ; VERROCHI MICHAEL JAMES

**Inventor(s):** (std): ROSE III R EDWARD ; ROSE JR R EDWARD ; VERROCHI MICHAEL JAMES

**14) Family number: 73427514** (US2019070324 AA)

© PatBase

**Title:** DATA COLLECTION DEVICE WITH ANTI-MICROBIAL ILLUMINATION

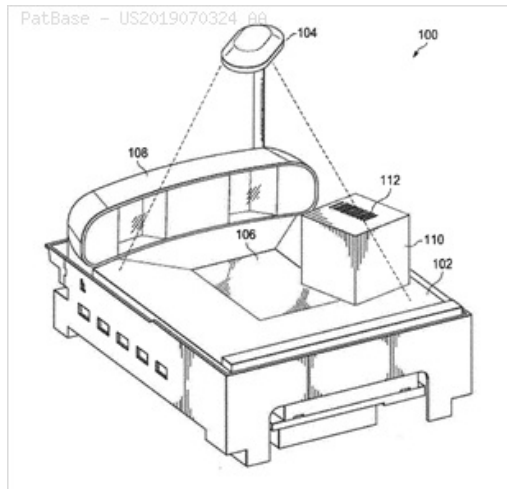
**Abstract:** A code reader may include a housing configured to be adjustably oriented. The housing may include at least one orientation corresponding with a cleaning function. A scanner may be disposed within the housing, and be configured to scan a machine-readable indicia in a target area. An illumination source may be configured to emit an anti-microbial illumination. A processing unit may be in communication with the scanner and illumination source, and be configured to select the cleaning function to cause the illumination source to emit the anti-microbial illumination toward the target area to disinfect surfaces in the target area.

**Classifications:**

**International (IPC 8-9):** A61L2/10 F21V23/00 F21V23/04 G06K15/12 G06K7/00 G06K7/10 G06K7/14 G06T7/73

**CPC:** A61L2/084 A61L2/10 A61L2/24 A61L2202/14 G06K7/10792 G06T2207/30128 G06T7/73 G07G1/0018 G07G1/0054 F21V23/003 F21V23/0471 G06K7/10821 G06T2207/30244 G06K7/10722 G06K7/1091 G06K7/1413

**US:** 1/1



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP3727476 A1       | 20201028         | EP20180891447      | 20181221         |
| US10402611 BB      | 20190903         | US20170696007      | 20170905         |
| US2019073499 AA    | 20190307         | US20170696007      | 20170905         |
| US10300158 BB      | 20190528         | US20170852252      | 20171222         |
| US2019070324 AA    | 20190307         | US20170852252      | 20171222         |
| WO19050999 A1      | 20190314         | WO2018US49620      | 20180905         |
| WO19126666 A1      | 20190627         | WO2018US67135      | 20181221         |

**Priority:**

US20170696007 20170905      US20170852252 20171222      WO2018US67135 20181221

**Probable Assignee:** DATALOGIC USA INC

**Assignee(s):** (std): DATALOGIC USA INC

**Inventor(s):** (std): HARDIN WESLEY ; HARDIN WESLEY W ; MONTE MATT ; THOMPSON RYAN

**Agent(s):** DENTONS US LLP; PORTA AND CONSULENTI ASSOCIATI SPA; SOLOMON GARY B

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

**15) Family number: 65134446** (WO17037570 A1)

© PatBase

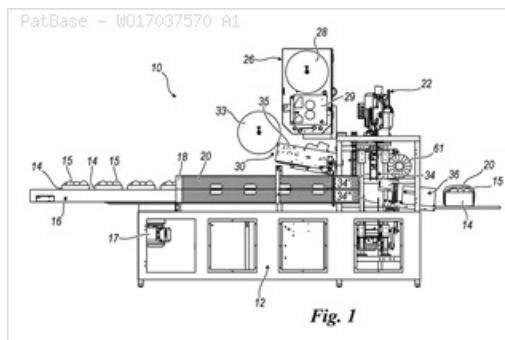
**Title:** APPARATUS FOR PACKAGING PRODUCTS IN BASKETS OR PUNNET

**Abstract:** An apparatus (10) for packaging products in punnets containing products, comprising a lower base (12) for supporting workstations comprising a loading station (16) for punnets (14) containing products (15), an internally hollow tubular element (18) provided with an internal pusher for said punnets and on the outer lateral surface of which a tubular material (20) is put suitable for wrapping up the punnets (14) leaving said tubular element (18), a labeling station (30) suitable for feeding bands (34) defining a label to be applied to said punnets (14), a further labeling station (26), and a closing station (22) provided with a closing and cutting head (34) for closing and simultaneously cutting or shearing said tubular material, a punnet-stopping device (36) provided with means suitable for implementing a timed stop of said punnet (14) wrapped up by the tubular material (20).

**Classifications:**

**International (IPC 8-9):** B65B25/04 B65B51/30 B65B61/14 B65B61/20 B65B9/15

**CPC:** B65B25/04 B65B25/046 B65B25/048 B65B51/303 B65B61/14 B65B61/202 B65B9/15



#### Family:

| Publication number   | Publication date | Application number | Application date |
|----------------------|------------------|--------------------|------------------|
| ITUB20153289 A1      | 20170228         | IT2015UB03289      | 20150828         |
| <b>WO17037570 A1</b> | 20170309         | WO20161B55035      | 20160824         |

#### Priority:

IT2015UB03289 20150828

**Probable Assignee:** SAELARK S R L

**Assignee(s):** (std): C PACK VERPACKUNGSMASCHINEN ; C PACK VERPACKUNGSMASCHINEN GMBH ; SAELARK S R L

**Inventor(s):** (std): CZEPLUCH JORG ; SALA GIANMARIO

**Agent(s):** RIPAMONTI ENRICO ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

#### 16) Family number: 81365060 (IN202041041919 A)

© PatBase

**Title:** STAR COOK AN ADVANCED IOT BASED VARIETY COOKING MACHINE

**Abstract:** The innovation STAR COOK AN ADVANCED IOT BASED VARIETY COOKING MACHINE is focused on advanced IoT based variety cooking machine based on the technology that integrated a cooking ingredient dispenser, water dispenser, cooking element with mixing unit and a control unit are grouped to process a multi-stage and variety cooking process in an effective time period. A programmable controller controls entire cooking process. The quantity measuring unit, precisely measure cooking ingredients to enhance the taste of prepared food. The cooking temperature, cooking process and the quantity measurements are monitored lively with the help of IoT platform.

#### Classifications:

**International (IPC 8-9):** H05B6/062

#### Family:

| Publication number      | Publication date | Application number | Application date |
|-------------------------|------------------|--------------------|------------------|
| <b>IN202041041919 A</b> | 20201009         | IN202041041919     | 20200927         |

#### Priority:

IN202041041919 20200927

**Probable Assignee:** A NARASIMA VENKATESH

**Assignee(s):** A NARASIMA VENKATESH ; BRAHMDUTT BOHRA ; FATHIMA JABEEN ; G SOUNDRA DEVI ; J JEYASHANTHI ; J RAHILA ; P DURGADEVI ; S P GAYATHRI ; SHIVA PRASAD EDARA ; SUGUMARI VALLINAYAGAM

**Inventor(s):** A NARASIMA VENKATESH ; BRAHMDUTT BOHRA ; FATHIMA JABEEN ; G SOUNDRA DEVI ; J JEYASHANTHI ; J RAHILA ; P DURGADEVI ; S P GAYATHRI ; SHIVA PRASAD EDARA ; SUGUMARI VALLINAYAGAM

#### 17) Family number: 8214661 (DE4021331 A1)

© PatBase

**Title:** Presentation appts. for pictures and notices - has pictures or notices withdrawable from and reinsertable in frame

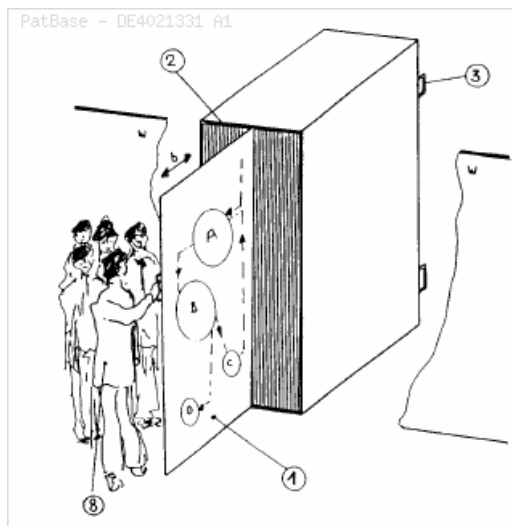
**Abstract:** The pictures or notices (1) can be withdrawn from the frame (2) and/or subdivided on a side surface. The appts. is portable, and is provided with carrying grips, and several such appts. can be coupled together in a row with lateral connections (11). The pictures or notices are arranged on running rails, for which the frame has approp. supports. Also incorporated in the appts. is a current connection for a picture or notice illumination arrangement. On the side surface of the appts. is a closable shutter, and for ease of transport the appts. is fitted with rollers. USE - For the presentation of pictures and notices.

#### Classifications:

**International (IPC 8-9):** G09F15/00

**International (IPC 1-7):** G03B23/02 G03B23/04 G09F9/37

**CPC:** G09F15/0087



#### Family:

| Publication number  | Publication date | Application number | Application date |
|---------------------|------------------|--------------------|------------------|
| <b>DE4021331 A1</b> | 19920109         | DE19904021331      | 19900704         |

#### Priority:

DE19904021331 19900704

#### Probable Assignee:

GROSSMANN HANS

#### Assignee(s): (std):

GROSSMANN HANS

#### Assignee(s):

GROSSMANN HANS 6906 LEIMEN DE

#### Inventor(s): (std):

GROSSMANN HANS

#### Inventor(s):

GROSSMANN HANS 6906 LEIMEN DE

#### 18) Family number: 33530147 (US5678320 A)

© PatBase

#### Title: SEMICONDUCTOR PROCESSING SYSTEMS

**Abstract:** A processor for processing semiconductor articles, such as integrated circuit wafers, flat panel displays, semiconductor substrates, and data disks. The processor has an interface section which receives articles in article carriers. The interface section transfers the articles from carriers into processing arrays. A conveyor having an automated arm assembly moves article arrays to and between processing stations. The processing stations are accessed from an enclosed area adjoining the interface section.

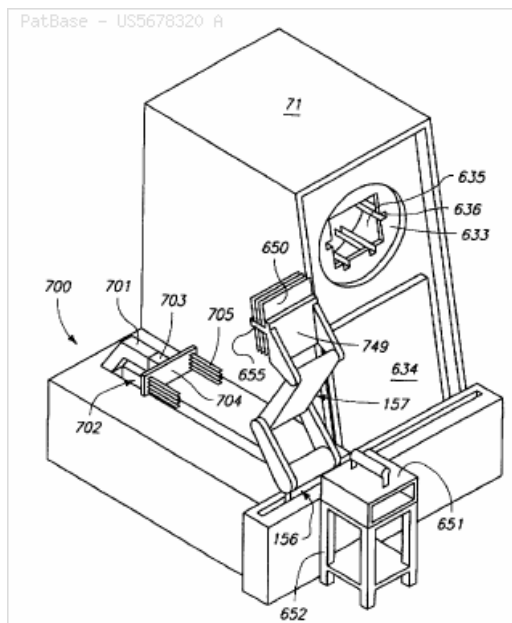
#### Classifications:

**International (IPC 8-9):** B65G49/07 C08G73/00 C08G73/10 C08L79/00 C08L79/08 G02F1/13 G02F1/1337 G02F1/1345 H01L21/00 H01L21/67 H01L21/673 H01L21/677

**International (IPC 1-7):** F26B17/24 H01L21/00

**CPC:** H01L21/67173 H01L21/67313 H01L21/67326 H01L21/67742 H01L21/67754 H01L21/67769 H01L21/67772 H01L21/67775 H01L21/67778 H01L21/67781 Y10S134/902 Y10S414/138 Y10S414/14 Y10S414/141

**US:** 34/312 34/58 414/938



#### Family:

| Publication number  | Publication date | Application number | Application date |
|---------------------|------------------|--------------------|------------------|
| TW283783 B          | 19960821         | TW19950111290      | 19951026         |
| <b>US5678320 A</b>  | 19971021         | US19950415240      | 19950403         |
| <b>WO9530240 A2</b> | 19951109         | WO1995US05276      | 19950428         |
| <b>WO9530240 A3</b> | 19951207         | WO1995US05276      | 19950428         |

#### Priority:

US19940236424 19940428 US19950415240 19950403

#### Probable Assignee: SEMITOOL INC

**Assignee(s): (std):** BERNER ROBERT W ; CULLITON STEPHEN P ; CURTIS GARY L ; SEMITOOL INC ; THOMPSON RAYMON F

; WRIGHT BLAINE G

**Assignee(s):** SEMITOOL INCORPORATED

**Inventor(s):** (std): BERNER ROBERT W ; BLAINE G WRIGHT ; CULLITON STEPHEN P ; CURTIS GARY L ; GARY L CURTIS ;  
RAYMOND F THOMPSON ; ROBERT W BERNER ; STEPHEN P CULLITON ; THOMPSON RAYMON F ;  
WRIGHT BLAINE G

**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 IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD  
SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

**19) Family number: 33530190** (US5882168 A)

© PatBase

**Title:** SEMICONDUCTOR PROCESSING SYSTEMS

**Abstract:** A processor for processing semiconductor articles, such as integrated circuit wafers, flat panel displays, semiconductor substrates, and data disks. The processor has an interface section which receives articles in article carriers. The interface section transfers the articles from carriers into processing arrays. A conveyor having an automated arm assembly moves article arrays to and between processing stations. The processing stations are accessed from an enclosed area adjoining the interface section.

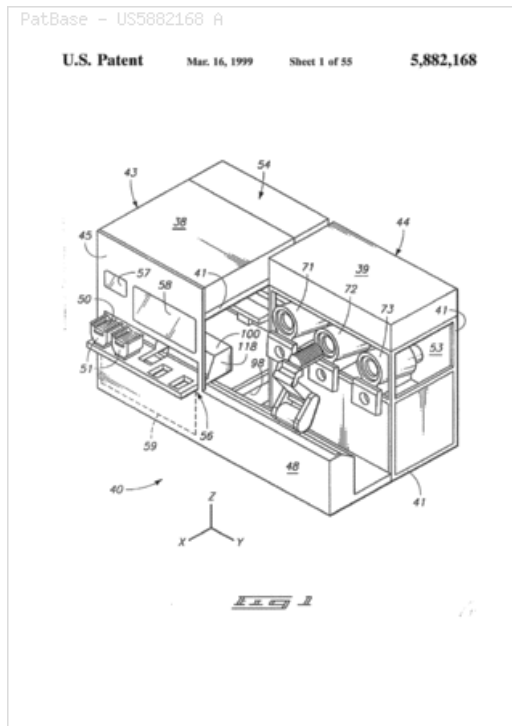
**Classifications:**

**International (IPC 8-9):** B65G49/07 H01L21/00 H01L21/67  
H01L21/673 H01L21/677

**International (IPC 1-7):** B65B21/02

**CPC:** H01L21/67173 H01L21/67313 H01L21/67326 H01L21/67754  
H01L21/67769 H01L21/67772 H01L21/67775 H01L21/67778  
H01L21/67781 Y10S414/138 Y10S414/141

**US:** 414/416 414/416.01 414/941



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US5882168 A        | 19990316         | US19970881553      | 19970624         |

**Priority:**

US19940236424 19940428 US19950415240 19950403 US19970881553 19970624

**Probable Assignee:** SEMITOOL INC

**Assignee(s):** (std): SEMITOOL INC

**Inventor(s):** (std): BERNER ROBERT W ; CULLITON STEPHEN P ; CURTIS GARY L ; THOMPSON RAYMON F ; WRIGHT  
BLAINE G

**20) Family number: 54508086** (US2014357464 AA)

© PatBase

**Title:** CENTRIFUGE

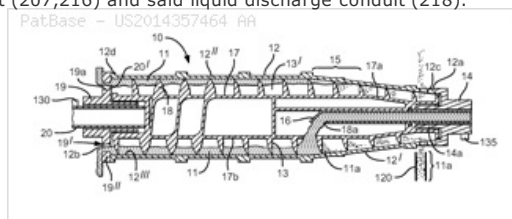
**Abstract:** A flow apparatus for a separation apparatus for separating solids from a solids laden drilling fluid, the flow system comprising a feed conduit (207,216) for feeding solids laden drilling fluid to the separation apparatus (10), a liquid discharge conduit (218) for conveying discharged liquid phase from said separation apparatus (10) and a solids discharge port (230) for allowing discharge of solids phase from said separation apparatus, characterised in that said flow system comprises a parameter measuring apparatus (212) connected to said feed conduit (207,216) and said liquid discharge conduit (218).

**Classifications:**

**International (IPC 8-9):** B01D21/00 B04B1/20 B04B11/02 B04B5/12  
B04B9/10 E21B21/06 E21B43/34

**CPC:** B04B1/20 B04B11/02 E21B21/065 E21B43/34

**US:** 494/10 494/37



**Family:**

| Publication number   | Publication date | Application number   | Application date |
|----------------------|------------------|----------------------|------------------|
| CA2852909 AA         | 20141130         | CA20142852909        | 20140520         |
| CA2852909 C          | 20181211         | CA20142852909        | 20140520         |
| GB201309652 A0       | 20130717         | GB20130009652        | 20130530         |
| GB2514589 A1         | 20141203         | GB20130009652        | 20130530         |
| <b>GB2514589 B2</b>  | <b>20200129</b>  | <b>GB20130009652</b> | <b>20130530</b>  |
| <b>US10155230 BB</b> | <b>20181218</b>  | <b>US20140290554</b> | <b>20140529</b>  |
| US2014357464 AA      | 20141204         | US20140290554        | 20140529         |

**Priority:**

GB20130009652 20130530

**Probable Assignee:** NAT OILWELL VARCO LP

**Assignee(s):** (std): NAT OILWELL VARCO LP

**Assignee(s):** NATIONAL OILWELL VARCO L P ; NATIONAL OILWELL VARCO LP7909 PARKWOOD CIRCLE DRIVEHOUSTONTX77036US ; STONE LYNDON RAY

**Inventor(s):** (std): LYNDON RAY STONE ; STONE LYNDON RAY

**Inventor(s):** STONE LYNDON RAYUS

**Agent(s):** CONLEY ROSE PC; OSLER HOSKIN AND HARCOURT LLP

**21) Family number: 57695654 (EP2796390 A1)**

© PatBase

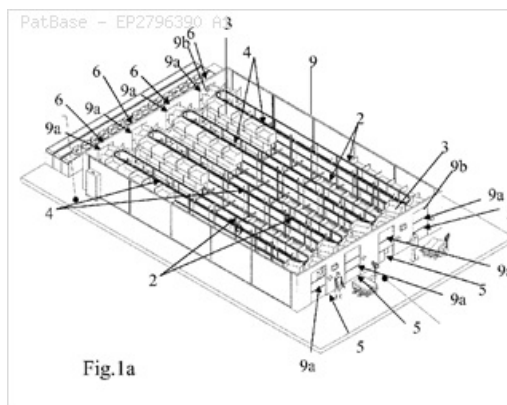
**Title:** SYSTEM FOR AUTOMATIC TRANSPORT AND STORAGE OF PRODUCTS FOR PREPARING ORDERS AND METHOD FOR CONTROLLING SAID SYSTEM

**Abstract:** Source: EP2796390 A1 [FR] La presente invention a pour objet un systeme de transport et de stockage automatique de produits pour la preparation de leurs commandes, ledit systeme comprenant une station de stockage desdits produits comprenant des porte-charges (3) individuels aptes a etre approvisionnes en produits stockes dans ces derniers dans l'attente de leur prelevement pour realiser ladite preparation. Il comprend une enceinte (9) renfermant au moins un module (4) de transport et de stockage comprenant au moins deux convoyeurs (2) independant capables de transporter automatiquement lesdits portes-charges et etant superposes l'un au-dessus de l'autre, au moins une ouverture d'accès pratiquée dans l'enceinte, au moins une porte (9a) et/ou au moins une fenetre assurant la fermeture de ladite ouverture d'accès et definissant un poste d'approvisionnement et/ou de prelevement (5, 6) des produits dans lesdits porte-charges. Elle a également pour objet un procede de controle du chargement ou du dechargement dudit systeme.

**Classifications:**

**International (IPC 8-9):** B65G1/04 B65G1/133

**CPC:** B65G1/133 G06Q10/08 G06Q10/083 G06Q10/087



**Family:**

| Publication number  | Publication date | Application number   | Application date |
|---------------------|------------------|----------------------|------------------|
| DE602013040041 D1   | 20180809         | DE201360040041T      | 20130426         |
| <b>EP2796390 A1</b> | <b>20141029</b>  | <b>EP20130305555</b> | <b>20130426</b>  |
| EP2796390 B1        | 20180711         | EP20130305555        | 20130426         |
| ES2690879 T3        | 20181122         | ES20130305555T       | 20130426         |

**Priority:**

EP20130305555 20130426

**Probable Assignee:** METALPROGETTI S P A

**Assignee(s):** (std): COBEL S A SA ; COBEL S A SOC ANONYME ; METALPROGETTI S P A

**Assignee(s):** COBEL SOCIETE ANONYME SA

**Inventor(s):** (std): LAUNAY PATRICK ; SANTICCHI ELENA

**Agent(s):** NUSS LAURENT; ROOS PETER DIPL PHYS UNIV DRRERNAT

**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

**22) Family number: 33530165 (US5784802 A)**

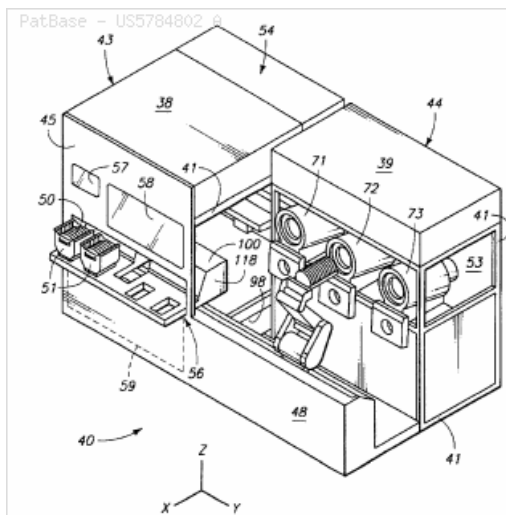
© PatBase

**Title:** SEMICONDUCTOR PROCESSING SYSTEMS

**Abstract:** A processor for processing semiconductor articles, such as integrated circuit wafers, flat panel displays, semiconductor substrates, and data disks. The processor has an interface section which receives articles in article carriers. The interface section transfers the articles from carriers into processing arrays. A conveyor having an automated arm assembly moves article arrays to and between processing stations. The processing stations are accessed from an enclosed area adjoining the interface section.

**Classifications:**

**International (IPC 8-9):** B65G49/07 H01L21/00 H01L21/67  
H01L21/673 H01L21/677  
**International (IPC 1-7):** F26B5/08  
**CPC:** H01L21/67173 H01L21/67313 H01L21/67326 H01L21/67754  
H01L21/67769 H01L21/67772 H01L21/67775 H01L21/67778  
H01L21/67781 Y10S414/138 Y10S414/141  
**US:** 34/312 34/58 414/938



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| <b>US5784802 A</b> | 19980728         | US19970881682      | 19970624         |

#### Priority:

US19940236424 19940428 US19950415240 19950403 US19970881682 19970624

**Probable Assignee:** SEMITOOL INC

**Assignee(s):** (std): SEMITOOL INC

**Inventor(s):** (std): BERNER ROBERT W ; CULLITON STEPHEN P ; CURTIS GARY L ; THOMPSON RAYMON F ; WRIGHT BLAINE G

### 23) Family number: 76608086 (WO19220163 A1)

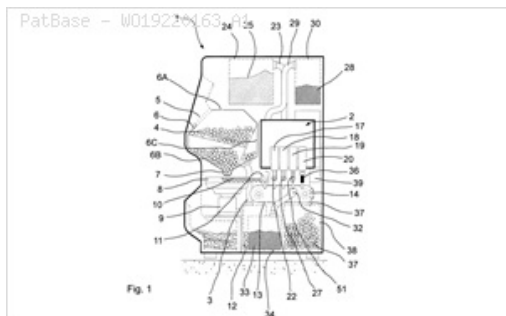
© PatBase

**Title:** RECOVERY SYSTEM FOR SPENT CONTAINERS

**Abstract:** Automated recovery system (2) configured to separate and recover recyclable components from a spent container (4) which is at least partly filled with a beverage particulate material, the recovery system comprising container lid removal means (17) configured to remove and recover a lid portion (25) of the spent container, container bottom removal means (19) configured to remove and recover at least a portion of a bottom (33) of the spent container, and beverage particulate material evacuation means (18) configured to evacuate particulate material from within the spent container and recover the beverage particulate material, wherein the container lid removal means, container bottom removal means, and beverage particulate material evacuation means are configured to operate together to provide a separate body portion of the spent container substantially free of any beverage particulate material, the automated recovery system further comprising body portion recovery means.

#### Classifications:

**International (IPC 8-9):** A47J31/44 B07C5/34 B09B3/00 B09B5/00  
B65B69/00 B67D1/00  
**CPC:** A47J31/44 B07C5/3404 B07C5/3412 B09B3/00 B09B5/00  
B65B69/0033



#### Family:

| Publication number   | Publication date | Application number | Application date |
|----------------------|------------------|--------------------|------------------|
| <b>WO19220163 A1</b> | 20191121         | WO20181B00682      | 20180517         |

#### Priority:

WO20181B00682 20180517

**Probable Assignee:** SISLOR FRANCE SAS

**Assignee(s):** (std): CAMILO RODRIGUES CHELLA TAINA ; PEREIRA DE CAMPOS JOACIR ; SISLOR FRANCE SAS

**Inventor(s):** (std): CAMILO RODRIGUES CHELLA TAINA ; PEREIRA DE CAMPOS JOACIR

**Agent(s):** THURGOOD ALEXANDER

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR  
CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

### 24) Family number: 33530536 (EP0757844 A1)

© PatBase

**Title:** SEMICONDUCTOR PROCESSING SYSTEM

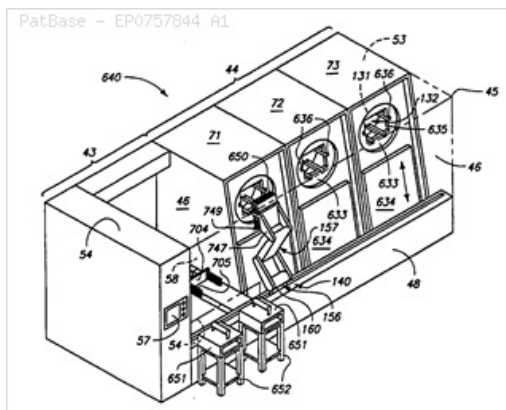
**Abstract:** A processor for processing semiconductor articles, such as integrated circuit wafers, flat panel displays, semiconductor substrates, and data disks. The processor has an interface section which receives articles in article carriers. The interface section transfers the articles from carriers into processing arrays. A conveyor having an automated arm assembly moves article arrays to and between processing stations. The processing stations are accessed from an enclosed area adjoining the interface section.

**Classifications:**

**International (IPC 8-9):** B65G49/07 H01L21/00 H01L21/67 H01L21/673 H01L21/677

**International (IPC 1-7):** H01L21/00

**CPC:** H01L21/67173 H01L21/67313 H01L21/67326 H01L21/67754 H01L21/67769 H01L21/67772 H01L21/67775 H01L21/67778 H01L21/67781 Y10S414/138 Y10S414/141



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU199524293 A1     | 19951129         | AU19950024293      | 19950428         |
| EP0757844 A1       | 19970212         | EP19950918321      | 19950428         |

**Priority:**

US19940236424 19940428 US19950415240 19950403 WO1995US05276 19950428

**Probable Assignee:** SEMITOOL INC

**Assignee(s):** (std): SEMITOOL INC

**Assignee(s):** SEMITOOL INCORPORATED

**Inventor(s):** (std): BERNER ROBERT W ; CULLITON STEPHEN P ; CURTIS GARY L ; THOMPSON RAYMON F ; WRIGHT BLAINE G

**Inventor(s):** BLAINE G WRIGHT ; GARY L CURTIS ; RAYMON F THOMPSON ; ROBERT W BERNER ; STEPHEN P CULLITON

**Designated states:** DE GB

**25) Family number: 33078742 (WO06063305 A1)**

© PatBase

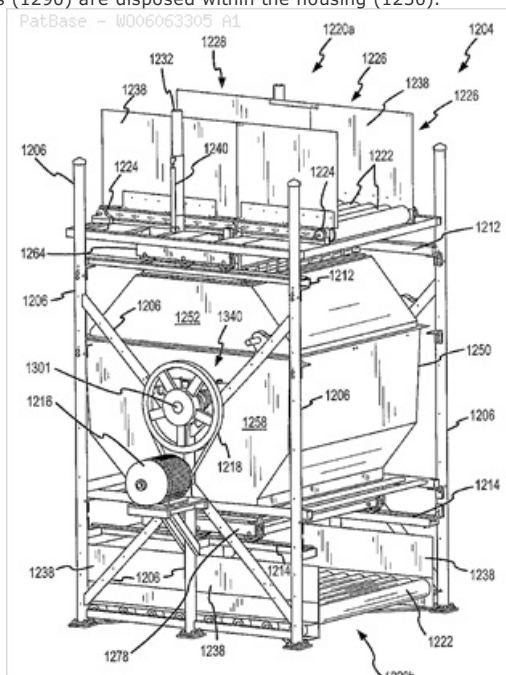
**Title:** LAUNDRY SYSTEM

**Abstract:** An integrated processing unit (1204) is disclosed that is able to wash, extract, and dry a laundry batch in a common space (without having to transfer the laundry batch between different machines). The integrated processing unit (1204) includes a housing (1250), as well upper and lower housing access doors (1264,1278). A perforated and rotatable basket (1300) is disposed within the housing (1250), and includes multiple, removable basket access doors (1330). Multiple balancing tubes (1314), each having a pair of chambers (1318a, 1318b), are disposed within the basket (1300). A heater (1292) is provided for evaporating liquid from a laundry batch within the basket (1300), and cooling coils (1290) are provided for condensing these vapors. Both the heater (1292) and cooling coils (1290) are disposed within the housing (1250).

**Classifications:**

**International (IPC 8-9):** B08B3/00 D06F31/00 D06F33/00 D06F35/00 F26B11/00 F26B11/02

**CPC:** D06F2101/00 D06F2103/00 D06F2103/34 D06F2103/44 D06F2105/46 D06F25/00 D06F35/00 D06F37/04 D06F37/06 D06F37/10 D06F37/203 D06F37/22 D06F37/225 D06F37/26 D06F37/28 D06F37/302 D06F39/006 D06F39/083 D06F39/088 D06F39/125 D06F58/02 D06F58/20 D06F58/24 D06F58/26 D06F58/263 D06F58/30 D06F95/00



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO06063305 A1      | 20060615         | WO2005US44778      | 20051208         |

**Priority:**

US20040634733P 20041209

**Probable Assignee:** LAVONDRY SYSTEMS LLC

**Assignee(s):** (std): BRITTAIN MICHAEL A ; LAVONDRY SYSTEMS LLC ; LEIDIG STEVEN R

**Inventor(s):** (std): BRITTAIN MICHAEL A ; LEIDIG STEVEN R

**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 KN KP KR KZ LC LK LR LS LT LU LV LY 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

**26) Family number: 42458909 (US2008271901 AA)**

© PatBase

**Title:** COMPACT MOBILE FIRE ATTACK VEHICLE MOUNTABLE TO AN EMERGENCY VEHICLE

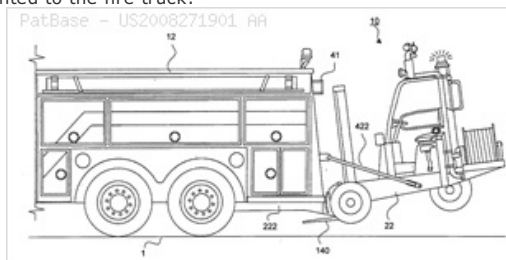
**Abstract:** A compact mobile fire attack vehicle detachably mounted to an emergency vehicle. The compact mobile fire attack vehicle is intended to be mountable to the rear end of a fire truck. In response to an emergency call, the mobile fire attack vehicle can be quickly disengaged and deployed to the fire. Likewise, after the emergency has been mitigated, the mobile fire attack vehicle can be quickly and conveniently be re-mounted to the fire truck.

**Classifications:**

**International (IPC 8-9):** A62C27/00 B60P3/06 B62D53/04

**CPC:** A62C27/00 B66F9/07504 B66F9/07563

**US:** 169/24 169/24S 169/46 169/46P 169/52 169/70 169/70S 280/402



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2008271901 AA    | 20081106         | US20080080862      | 20080407         |
| US7909112 BB       | 20110322         | US20080080862      | 20080407         |
| WO08136897 A1      | 20081113         | WO2008US04591      | 20080409         |

**Priority:**

US20070927660P 20070503 US20080080862 20080407

**Probable Assignee:** MOFAV FIRE LLC

**Assignee(s):** (std): DECKER GORDON MICHAEL

**Assignee(s):** MOFAV FIRE LLC

**Inventor(s):** (std): DECKER GORDON MICHAEL

**Agent(s):** EVORA ROBERT Z; ROBERT Z; ROBERT Z EVORA

**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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**27) Family number: 78762209 (US2020139554 AA)**

© PatBase

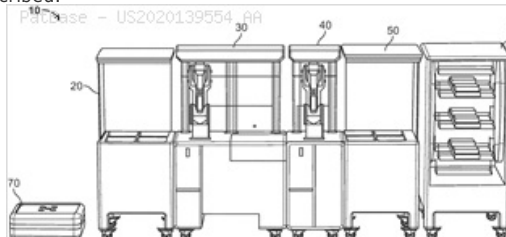
**Title:** MODULAR ROBOTIC FOOD PREPARATION SYSTEM AND RELATED METHODS

**Abstract:** A modular robotic kitchen system is conveniently adaptable to perform a wide range of cooking applications. The modular robotic kitchen system can include a plurality of discrete modular units organized in a small footprint such that multiple types of cooking applications can be performed without a need to replace the modular units. Exemplary modular units include an ingredient module, robotic arm module, assembly and packaging module, and warming module. Optionally a transport unit or sled moves the modules into position. The modular kitchen system includes a central processor operable to carry out different cooking applications upon downloading software corresponding to the specific cooking application and without retooling the existing modules. Related methods are also described.

**Classifications:**

**International (IPC 8-9):** A23L5/10 B25J11/00 B25J19/02 B25J9/00 B25J9/16

**CPC:** A23L5/10 B25J11/0045 B25J19/02 B25J21/00 B25J9/0081 B25J9/0084 B25J9/08 B25J9/1612 B25J9/162



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2020139554 AA    | 20200507         | US20190676088      | 20191106         |

**Priority:**

US20180757147P 20181107

US20180757268P 20181108

US20190676088 20191106

**Probable Assignee:** MISO ROBOTICS INC

**Assignee(s):** (std): MISO ROBOTICS INC

**Inventor(s):** (std): ANDERSON ROBERT ; SINNET RYAN W ; WERST WILLIAM ; ZITO DAVID

**28) Family number: 80053857** (ES1249445 UA)

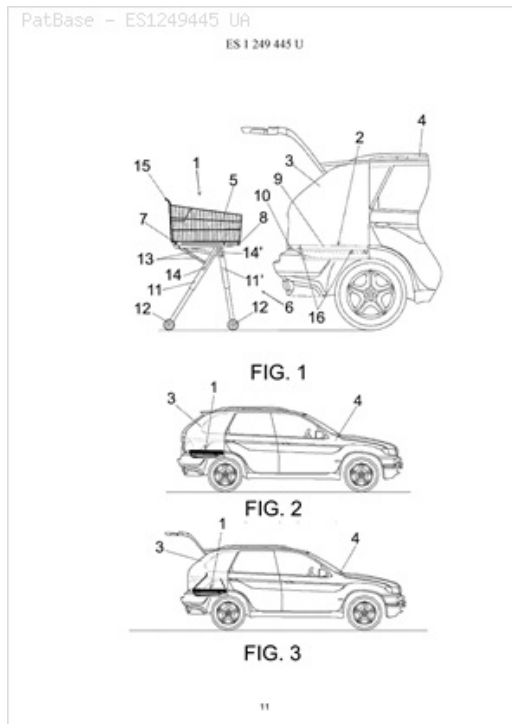
© PatBase

**Title:** FOLDING TROLLEY FOR VEHICLES (MACHINE-TRANSLATION BY GOOGLE TRANSLATE, NOT LEGALLY BINDING)

**Abstract:** Folding cart for vehicles, characterized in that it is made up of a folding cart (1) itself, and a system of slides and anchorage (2) for it, implantable in the bottom of the boot (3) of a vehicle (4), with the particularity that the trolley includes a basket (5), the side walls of which are provided with hinge means with respect to their bottom, so that said four walls can be folded down, on the bottom of the basket adopting an arrangement flattened, basket that is linked to a lower body (6) through a frame (7), which includes sliding means on the sliding and anchoring system (2), lower body (6) equipped with a folding/unfolding structure on the frame (7), associated with the corresponding wheels (12) for moving the carriage.  
(Machine-translation by Google Translate, not legally binding)

**Classifications:**

**International (IPC 8-9):** B62B3/02 B62B3/10



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1249445 UA       | 20200715         | ES20200031158U     | 20200604         |
| ES1249445 Y        | 20201006         | ES20200031158U     | 20200604         |
| ES1249445 Y1       | 20201006         | ES20200031158U     | 20200604         |

**Priority:**

ES20200031158U 20200604

**Probable Assignee:** ALONSO GARCIA ALEJANDRO

**Assignee(s):** (std): ALONSO GARCIA ALEJANDRO

**Assignee(s):** ALEJANDRO ALONSO GARCIA

**Inventor(s):** (std): ALONSO GARCIA ALEJANDRO

**Inventor(s):** ALEJANDRO ALONSO GARCIA

**29) Family number: 22701697** (FR1260775 A)

© PatBase

**Title:** PROCESS FOR SELECTIVE TRANSMISSION AND DISTRIBUTION OF OBJECTS TO VARIOUS DESTINATION OF POSTS AND APPARATUS FOR IMPLEMENTING SUCH A METHOD (Machine translation)

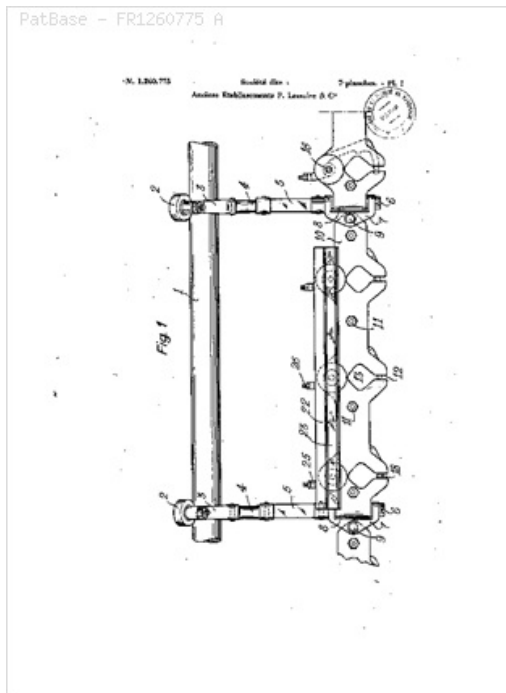
**Abstract:** Source: FR1260775 A **Machine translation:** (Claim 1) a possible selections. A special button, affects an index or a distinctive color, can opt for an emergency function on any selection.

**Classifications:**

**International (IPC 8-9):** B65G47/48 B65G47/50

**International (IPC 1-7):** B65G47/36 B65G47/48

**CPC:** B65G47/482 B65G47/487 B65G47/50

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| FR1260775 A        | 19610512         | FR19607523116      | 19600401         |
| FR80374 E          | 19630419         | FR19617574439      | 19610928         |

**Priority:**

FR19607523116 19600401 FR19617574439 19610928

**Probable Assignee:** ANCIENS ETABLISSEMENTS P LEMAI**Assignee(s):** (std): ANCIENS ETABLISSEMENTS P LEMAI ; ANCIENS P LEMAI ETS**Assignee(s):** ANCIENS ETABLISSEMENTS P LEMAIRE AND COMPAGNIE ; ANCIENS P LEMAIRE AND COMP ETS**30) Family number: 2505529 (US4327829 A)**

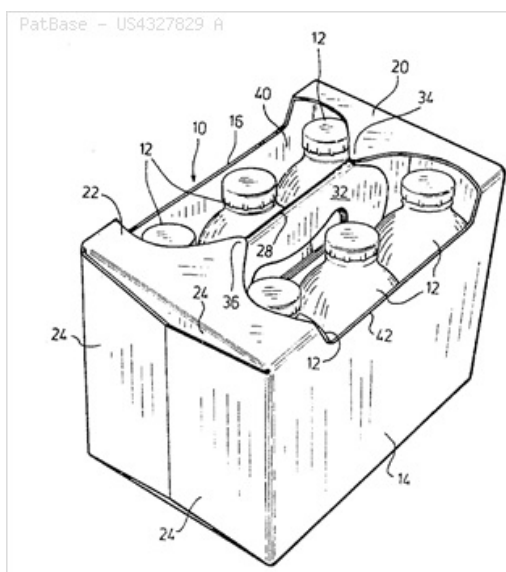
© PatBase

**Title:** Display carton and blank therefor

**Abstract:** A compact carton for beer bottles and the like is formed from a unitary blank and incorporates a dividing partition having a carrying handle formed therewith disposed centrally, vertically below the top of the carton; a display opening is defined in the top of the carton permitting a pleasing display of the carton contents and access to the handle. The filled cartons can be readily stacked one on top of the other for storage and transport and the contents can be readily removed by the customer through the display opening without breaking the carton apart. The carton has the additional advantage that it can be end-loaded.

**Classifications:****International (IPC 8-9):** B65D5/46 B65D71/00 B65D71/06 B65D71/36**International (IPC 1-7):** B65D5/46 B65D5/48**CPC:** B65D2571/00141 B65D2571/00339 B65D2571/00456

B65D2571/00524 B65D2571/0066 B65D2571/00728 B65D71/36

**US:** 206/193 206/199 229/117.13 229/122**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA1229581 A1       | 19871124         | CA19800360919      | 19800924         |
| US4327829 A        | 19820504         | US19800154429      | 19800529         |

**Priority:**

US19800154429 19800529 CA19800360919 19800924

**Probable Assignee:** CONTINENTAL CAN CANADA INC

**Assignee(s):** (std): CONTINENTAL GROUP CA LTD ; SOMERVILLE IND LTD

**Assignee(s):** CONTINENTAL CAN CANADA INC ; CONTINENTAL CAN CO OF CANADA TO CONTINENTAL GROUP ; CONTINENTAL GROUP OF CANADA INC ; HUGHES ROBERT G ; PAPERBOARD IND ; PAPERBOARD IND LES EMBALLAGES PAPERBOARD INC CORP ; SOMERVILLE BELKIN IND ; SOMERVILLE BELKIN IND LTD ; SOMERVILLE BELKIN INDUSTRIES LIMITED ; THE CONTINENTAL GROUP OF CANADA LTD

**Inventor(s):** (std): HUGHES ROBERT G

**Agent(s):** SWABEY MITCHELL HOULE MARCOUX AND SHER

**31) Family number: 49552455** (US2011217492 AA)

© PatBase

**Title:** APPARATUS AND METHOD FOR MANUFACTURING REINFORCED CONTAINERS

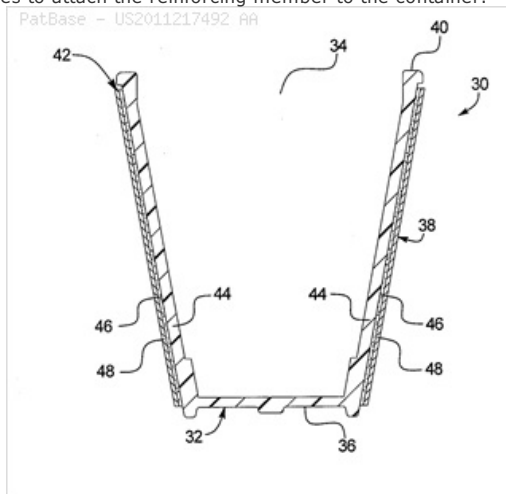
**Abstract:** Various embodiments of the apparatus and methods are configured to make containers such as disposable reinforced cups using reinforcing members configured to be respectively attached to cups. The apparatus and method of various embodiments of the present disclosure sequentially heat different or selective portions of the heat activated adhesive on the reinforcing member at multiple sequential stages, steps or times to attach the reinforcing member to the container.

**Classifications:**

**International (IPC 8-9):** B29C47/06 B29C63/00 B29C63/04 B29C65/00 B29C65/10 B29C65/20 B29L31/00 B31B15/00 B31B49/00 B31B50/00 B31B50/62 B31B50/74 B32B27/00 B32B27/10 B32B37/00 B65C9/18 B65D1/42 B65D25/36 B65D3/00 C09J5/00

**CPC:** B29C63/04 B29C65/20 B29L2031/7132 B32B27/10 Y10T156/103 Y10T156/171 Y10T428/1303

**US:** 1/1 156/213 156/213S 156/243 156/311 156/475 156/475S 156/497 156/499 156/542 229/4.5 229/403 428/34.2 428/34.200P



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2730970 AA       | 20110904         | CA20112730970      | 20110128         |
| CA2730970 C        | 20180102         | CA20112730970      | 20110128         |
| MX2011001895 A1    | 20110915         | MX20110001895      | 20110218         |
| US2011217492 AA    | 20110908         | US20100717728      | 20100304         |
| US8828170 BB       | 20140909         | US20100717728      | 20100304         |
| US2014338838 AA    | 20141120         | US20140452180      | 20140805         |
| US9676141 BB       | 20170613         | US20140452180      | 20140805         |

**Priority:**

US20100717728 20100304 CA20112730970 20110128 US20140452180 20140805

**Probable Assignee:** PACTIV CORP

**Assignee(s):** (std): PACTIV CORP ; PACTIV LLC ; PETERA SHAWN L ; RYAN EVAN L ; STAMATIOU DIMITRI

**Assignee(s):** BANK OF NEW YORK MELLON ; BANK OF NEW YORK MELLON COLLATERAL AGENT AS

**Inventor(s):** (std): PETERA SHAWN L ; RYAN EVAN L ; STAMATIOU DIMITRI

**Inventor(s):** DIMITRI STAMATIOU ; EVAN L RYAN ; SHAWN L PETERA

**Agent(s):** NEAL GERBER AND EISENBERG LLP; SMART AND BIGGAR

**32) Family number: 48248554** (US2013297066 AA)

© PatBase

**Title:** PRODUCT PROVISIONING SYSTEM

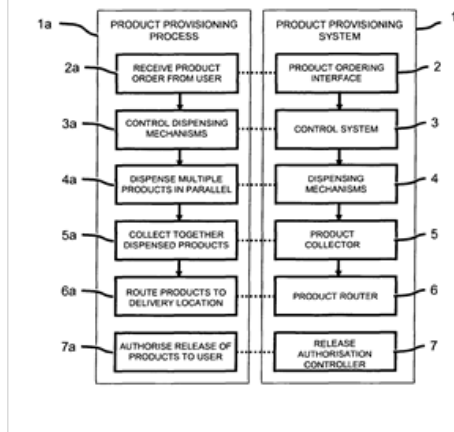
**Abstract:** Product provisioning methods and systems are described. A product provisioning system is arranged, in use, to deliver to a user substantially simultaneously a plurality of heterogeneous discrete products. The product provisioning system comprises a plurality of independently-controllable product dispensing mechanisms each configured to dispense different predetermined types of said discrete products from one another. The product provisioning system also comprises a product collector arranged to collect together products dispensed by the plurality of product dispensing mechanisms. Furthermore, the product provisioning system also comprises a control system. The control system is in communication with the product dispensing mechanisms, and is arranged to receive a user-specified product order for multiple heterogeneous products and, in response, control a set of the plurality of product dispensing mechanisms in parallel to dispense specified products of that product order.

**Classifications:**

**International (IPC 8-9):** B60S5/02 E01F13/04 G06Q50/12 G07B15/04 G07F11/00 G07F11/10 G07F11/62 G07F19/00 G07F5/18 G07F7/00 G07F9/02 G08G1/095 G08G1/14

**CPC:** G06Q50/12 G07F11/62 G07F17/40 G07F7/00 G07F9/002 G07F9/023 G06Q20/18 G06Q20/40145 G07F11/00 G07F19/205 G07F7/0873 G07F9/10 B60S5/02 G06Q30/0635 G07F11/10 G07F5/18 G07F9/02 G08G1/095 G08G1/14

**US:** 700/232

**Family:**

| Publication number     | Publication date | Application number | Application date |
|------------------------|------------------|--------------------|------------------|
| <b>EP2646989 A1</b>    | 20131009         | EP20110802667      | 20111130         |
| GB201020292 A0         | 20110112         | GB20100020292      | 20101130         |
| GB201103927 A0         | 20110420         | GB20110003927      | 20110308         |
| GB201105059 A0         | 20110511         | GB20110005059      | 20110325         |
| GB201106536 A0         | 20110601         | GB20110006536      | 20110418         |
| GB2486034 A1           | 20120606         | GB20110006536      | 20110418         |
| GB201112202 A0         | 20110831         | GB20110012202      | 20110715         |
| GB201120629 A0         | 20120111         | GB20110020629      | 20111130         |
| GB2486067 A1           | 20120606         | GB20110020629      | 20111130         |
| GB201120630 A0         | 20120111         | GB20110020630      | 20111130         |
| GB2486068 A1           | 20120606         | GB20110020630      | 20111130         |
| GB201120631 A0         | 20120111         | GB20110020631      | 20111130         |
| <b>GB2486069 A1</b>    | 20120606         | GB20110020631      | 20111130         |
| <b>US2013297066 AA</b> | 20131107         | US20110988308      | 20111130         |
| WO12072708 A1          | 20120607         | WO2011EP71438      | 20111130         |
| WO12072711 A1          | 20120607         | WO2011EP71442      | 20111130         |
| WO12072717 A1          | 20120607         | WO2011EP71448      | 20111130         |
| <b>WO12072718 A1</b>   | 20120607         | WO2011EP71449      | 20111130         |

**Priority:**

GB20100020292 20101130 GB20110003927 20110308 GB20110005059 20110325  
 GB20110006536 20110418 GB20110012202 20110715 GB20110012302 20110715  
 WO2011EP71449 20111130

**Probable Assignee:** PHOENIX GRUPPEN**Assignee(s):** (std): ALVERN STEIN ; GRUPPEN PHOENIX ; PHEONIX GRUPPEN ; PHOENIX GRUPPEN ; PHOENIX GRUPPEN AS**Inventor(s):** (std): ALVERN STEIN**Inventor(s):** STEIN ALVERN**Agent(s):** AHMAD SHEIKH SHAKEEL; ELKINER KAYA 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 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 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

**33) Family number: 72876000 (US2019047460 AA)**

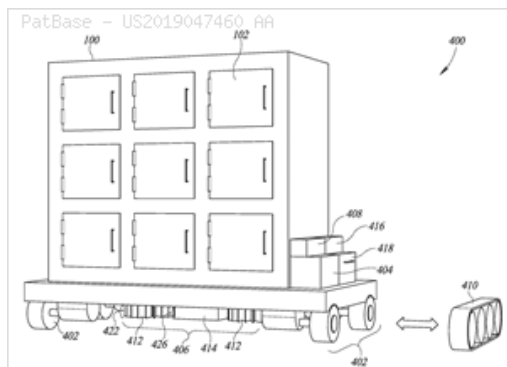
© PatBase

**Title:** MULTI-MODAL DISTRIBUTION SYSTEMS AND METHODS USING VENDING KIOSKS AND AUTONOMOUS DELIVERY VEHICLES

**Abstract:** Vehicles, components, and methods are disclosed for distributing hot or cold food items from a vending kiosk, a locker system, or a self-propelled delivery vehicle. The vending kiosk may have multiple doors, at least one of which is unlocked responsive to confirming a purchase transaction or authenticating the presence of a person or device associated with the purchase transaction. The multiple doors provide access to respective compartments that may be selectively heated and refrigerated. Such temperature changes may be based upon a temperature control schedule. The locker system may include one or more configurable compartments that may be accessible via a set of set of doors that can be selectively coupled into larger doors. The self-propelled delivery vehicle may have a plurality of thermally insulated compartments that may be used to carry multiple items at different temperatures.

**Classifications:**

**International (IPC 8-9):** B25J11/00 B25J5/00 B25J9/02 B60P3/00 B60P3/025 B60P3/20 B60R11/02 B60R16/023 B62D33/04 B62D63/04 G05D1/00 G05D1/12 G06Q10/08 G06Q20/18 G06Q20/32 G06Q20/34 G06Q20/40 G06Q50/12 G06Q50/28 G07C9/00 G07F11/00 G07F11/04 G07F11/38 G07F11/46 G07F11/62 G07F17/00 G07F17/12 G07F5/26 G07F9/00 G07F9/10 H04B5/00 H05B3/00  
**CPC:** B25J11/0045 B25J5/007 B60P3/007 B60P3/0257 B60P3/20 B60P3/205 B62D33/042 B62D63/04 B64C2201/128 B64C39/024 G05D1/0088 G05D1/12 G05D2201/0216 G06Q10/0832 G06Q20/18 G06Q20/3278 G06Q20/34 G06Q20/40 G06Q50/12 G07C2009/0092 G07C9/00182 G07C9/00563 G07C9/00896 G07F11/007 G07F11/04 G07F11/38 G07F11/46 G07F11/62 G07F17/0064 G07F17/12



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ■ CN110892459 A    | 20200317         | CN201880045054     | 20180703         |
| ■ IN201917053114 A | 20200214         | IN201917053114     | 20191220         |
| ■ TW201909052 A    | 20190301         | TW20180122993      | 20180703         |
| ■ TW201909054 A    | 20190301         | TW20180123006      | 20180703         |
| ■ US2020134952 AA  | 20200430         | US20180094441      | 20180703         |
| ■ US2019051086 AA  | 20190214         | US20180163317      | 20181017         |
| ■ US2019051090 AA  | 20190214         | US20180163323      | 20181017         |
| ■ US2019051087 AA  | 20190214         | US20180163328      | 20181017         |
| ■ US10654394 BB    | 20200519         | US20180163339      | 20181017         |
| ■ US2019047460 AA  | 20190214         | US20180163339      | 20181017         |
| ■ WO19014023 A1    | 20190117         | WO2018US40730      | 20180703         |
| ■ WO19014030 A1    | 20190117         | WO2018US40785      | 20180703         |

#### Priority:

|                         |                         |                         |
|-------------------------|-------------------------|-------------------------|
| US20170531131P 20170711 | US20170531136P 20170711 | US20170532885P 20170714 |
| US20180613272P 20180103 | WO2018US40785 20180703  | US20180094441 20180703  |
| US20180163339 20181017  | US20180163317 20181017  | US20180163328 20181017  |
| US20180163323 20181017  |                         |                         |

**Probable Assignee:** ZUME INC

**Assignee(s):** (std): GOLDBERG JOSHUA GOULED ; ZUME INC ; ZUME INC 250 POLARIS ; ZUME PIZZA INC

**Assignee(s):** TRIPLEPOINT CAPITAL LLC

**Inventor(s):** (std): GARDEN ALEXANDER ; GARDEN ALEXANDER J ; GARDEN ALEXANDER JOHN ; GOEL VAIBHAV ; GOLDBERG JOSHUA ; GOLDBERG JOSHUA G ; GOLDBERG JOSHUA GOULED

**Agent(s):** ABRAMONTE FRANK; ABRAMONTE FRANK ET AL; HERTZBERG TURK AND ASSOCIATES LLC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

#### 34) Family number: 66935489 (CA2921689 AA)

© PatBase

**Title:** COCONUT FIBER/STRAW/SUGARCANE HUSK (BAGASSE) BONDED RUBBER

**Abstract:** Straw/Bamboo/sugarcane husk (bagasse) bonded with rubber strong enough and light for bulletproof over 850+ new applications. These materials are so stronger they are bulletproof. Yet they are very light and can be thinned for many uses ie. thinned for heavy duty gloves and/or boxes, and/or heavy duty reusable bags... Can be used to replace, as mix (powders and adhesives), layers, lining and composites and coatings possibly mixed with flame retardants, temperature resistant and electrical conductivity or electrical insulator...

**Classifications:**

**International (IPC 8-9):** C08J5/04 C08L21/00 C08L97/02

**CPC:** C08L97/02

#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ■ CA2921689 AA     | 20170909         | CA20162921689      | 20160309         |

#### Priority:

CA20162921689 20160309

**Probable Assignee:** VOON GERARD G V

**Assignee(s):** (std): VOON GERARD G V

**Inventor(s):** (std): VOON GERARD G V

#### 35) Family number: 42299833 (US2008253834 AA)

© PatBase

**Title:** 3D CONTROL SYSTEM FOR CONSTRUCTION MACHINES

**Abstract:** A construction system utilizing 3D control includes a fixed base station of known location; a self-propelled construction machine located in the general vicinity of the fixed base station; and a rotating mobile unit assembly mounted on the self-propelled construction machine and having a location-determination device arranged to rotate around an axis. The location-determination device is adapted to operate in conjunction with the fixed base station to determine geodetic

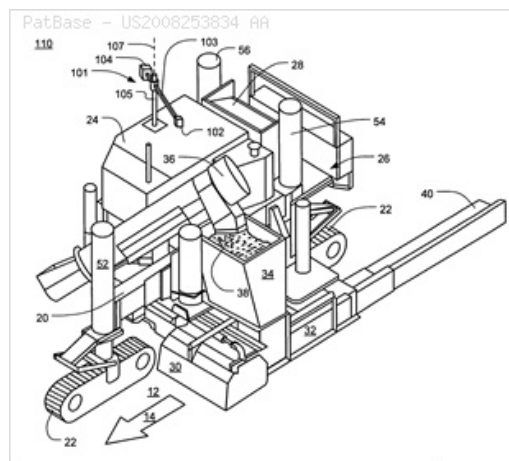
information about the self-propelled construction machine.

**Classifications:**

**International (IPC 8-9):** E01C19/00 E01C19/48 E01C19/52  
E01C23/00 E01C23/06 E01C23/07 E02F9/00 E02F9/20 G01C5/00  
G06F19/00

**CPC:** E01C19/006 E01C23/163 E02F9/2045

**US:** 180/168 180/401 180/84 180/9.46 33/290 33/290S 404/84.05  
404/84.050P 404/84.1 404/84.2 404/84.8 404/84.800P 700/245  
700/257 700/258 701/207 701/213 701/408 701/50



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2008253835 AA    | 20081016         | US20080098428      | 20080405         |
| US8073566 BB       | 20111206         | US20080098428      | 20080405         |
| US2008253834 AA    | 20081016         | US20080098429      | 20080405         |
| US8068962 BB       | 20111129         | US20080098429      | 20080405         |
| WO08124657 A1      | 20081016         | WO2008US59516      | 20080405         |

**Priority:**

US20070910243P 20070405      US20070910247P 20070405      US20070910251P 20070405  
US20080098429 20080405      US20080098428 20080405

**Probable Assignee:** POWER CURBERS INC

**Assignee(s):** (std): COLVARD JOHN CHARLES ; HUMPHRIES FRED RUSSELL ; MESSINGER DWIGHT FERRAND ; POWER CURBERS INC

**Inventor(s):** (std): COLVARD JOHN CHARLES ; HUMPHRIES FRED RUSSELL ; MESSINGER DWIGHT FERRAND

**Agent(s):** CHAD D; JAMES D; TILLMAN WRIGHT PLLC; WRIGHT JAMES D 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**36) Family number: 76797081 (WO19232505 A1)**

© PatBase

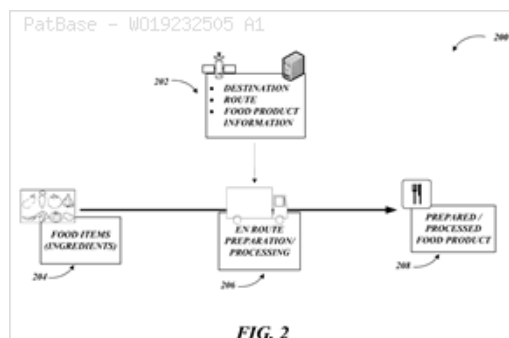
**Title:** EN ROUTE FOOD PRODUCT PREPARATION

**Abstract:** Technologies are generally described for en route food product preparation. Food product preparation process steps and timing may be determined based on travel information (e.g., starting point, intermediate waypoints, delivery destination, routes, etc.), as well as, food item and food product information. Instructions for robotic devices arranged modularly in a container or truck to execute steps of the food product preparation process and their timing may be transmitted to a controller managing the operations of the robotic devices. Instructions may be updated en route based on changing travel or other conditions.

**Classifications:**

**International (IPC 8-9):** A21B1/48 A21B5/00 A21C9/04 A21C9/08  
A23L5/10 B25J11/00 B60P3/00 B60P3/025

**CPC:** A21B1/52 A21C9/04 A21C9/08 B60P3/0257 G07F17/0064



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO19232505 A1      | 20191205         | WO2019US35100      | 20190603         |
| WO19232506 A1      | 20191205         | WO2019US35101      | 20190603         |

**Priority:**

US20180679522P 20180601      US20180679519P 20180601      US20180700115P 20180718  
US20180700117P 20180718      US20180779082P 20181213      US20180779090P 20181213

**Probable Assignee:** ZUME INC

**Assignee(s):** (std): ZUME INC

**Inventor(s):** (std): GARDEN ALEXANDER ; GOEL VAIBHAV ; GOLDBERG JOSHUA ; GRAHAM TOOKIE

**Inventor(s):** GARDEN ALEXANDER JOHN ; GOLDBERG JOSHUA GOULED

**Agent(s):** TURK CARL K

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

**37) Family number: 52423041** (WO14029387 A1)

© PatBase

**Title:** PALLET FOR GOODS TO BE TRANSPORTED

**Abstract:** A pallet for goods to be transported (15) comprises a pallet body (2), on which at least one object can be fixed by a fastening means. At least one corner post (3) and/or plate (7) and/or side wall and/or a floor (9) can be arranged on the pallet body (2), or the pallet body (2) is formed at least on the foot side from a circumferential tubular frame (16), the longitudinal and/or frontal frame parts (17) of which are telescopic.

**Classifications:**

**International (IPC 8-9):** B65D19/02 B65D19/12 B65D19/44 B65D85/66

**CPC:** B65D19/12 B65D19/44 B65D2519/00024 B65D2519/00059

B65D2519/00164 B65D2519/00233 B65D2519/00273

B65D2519/00293 B65D2519/00308 B65D2519/00323

B65D2519/00338 B65D2519/00502 B65D2519/00512

B65D2519/00532 B65D2519/00621 B65D2519/00631

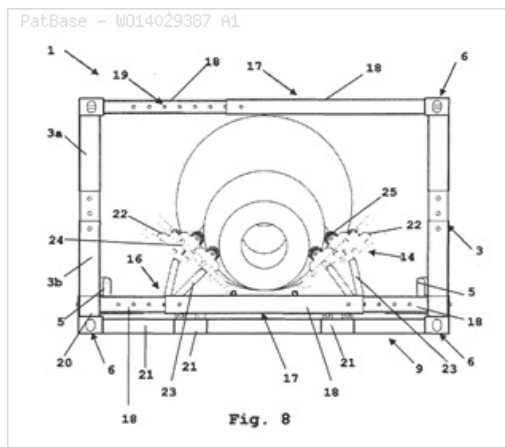
B65D2519/00641 B65D2519/00656 B65D2519/00661

B65D2519/00691 B65D2519/00746 B65D2519/00756

B65D2519/00761 B65D2519/00815 B65D2519/0082 B65D2519/009

B65D2519/0097 B65D85/66 B65D19/02 B65D19/10

B65D2519/00676 B65D85/04



**Family:**

| Publication number  | Publication date | Application number   | Application date |
|---------------------|------------------|----------------------|------------------|
| DE202012103663 U1   | 20121206         | DE201220103663U      | 20120925         |
| DE102013103449 A1   | 20140227         | DE201310103449       | 20130406         |
| DE202013102278 U1   | 20130801         | DE201320102278U      | 20130526         |
| DE502013005198 D1   | 20161215         | DE201350005198T      | 20130708         |
| EP2888174 A1        | 20150701         | EP20130744953        | 20130708         |
| <b>EP2888174 B1</b> | <b>20161102</b>  | <b>EP20130744953</b> | <b>20130708</b>  |
| WO14029387 A1       | 20140227         | WO2013DE100253       | 20130708         |

**Priority:**

|                 |          |                 |          |                |          |
|-----------------|----------|-----------------|----------|----------------|----------|
| DE201210107709  | 20120822 | DE201220103663U | 20120925 | DE201310103449 | 20130406 |
| DE201320102278U | 20130526 | EP20130744953   | 20130708 | WO2013DE100253 | 20130708 |
| WO2013DE00253   | 20130708 |                 |          |                |          |

**Probable Assignee:** LICHT RALPH DIETER

**Assignee(s):** (std): LICHT RALPH DIETER

**Assignee(s):** LICHT

**Inventor(s):** (std): LICHT RALPH DIETER

**Agent(s):** MUELLER JOCHEN; MUELLER JOCHEN DIPL ING

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 PA 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

**38) Family number: 39376439** (DK20271 C)

© PatBase

**Title:** Die set and Liniestoebemaskine with on the wire controlled Matrix rods. (Machine translation)

**Abstract:** Source: DK20271 C **Machine translation:** [Source: Claim 1] 1. Die set and Liniestoebemaskine in Traadc controlled Matricstaenger, k a r a k- teriseret. To Matricerne M WHERE THERE MUST BE Trebogstavskrift, first set to Tobogstavskrift, after which be plumbed cn Leverage Device 20 IJ, 16 or 20, 47, 49, 16, which means that Matricerne at the then the following Stop of Spati tangenten 2 are put into it for Trebogstavskrift appropriate position.

**Classifications:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DK20271 C          | 19150628         |                    | 00000000         |

**39) Family number: 71678022** (US2018315011 AA) © PatBase

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2018315011 AA    | 20181101         | US20180903042      | 20180223         |

40) Family number: 80297799 (DE102019102828 A1) © PatBase

PatBase PDF Export - Page: 24 10/02/2021

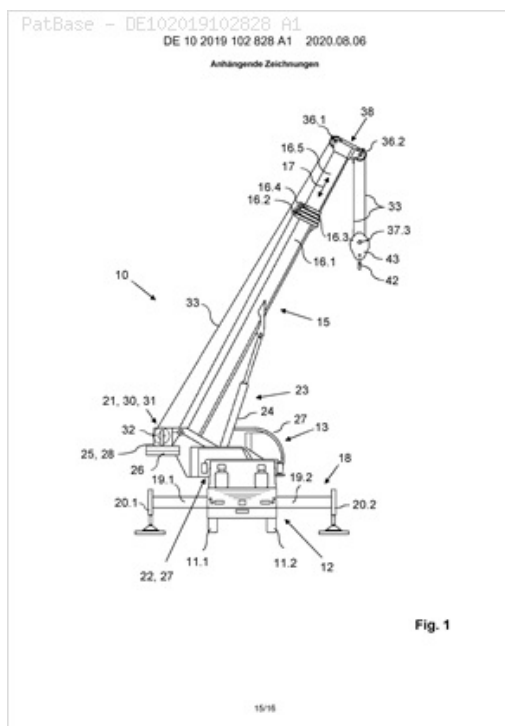
from the rope drum 32 abspulbar, which by means of a drive 34 of the winch 31 about its rotational axis 35 is rotatable drum, and which, in a first deflection pulley 36.1 routed via these passes, the first axis of rotation is rotatable about their pulleys 37.1. The cable drum is coupled to a first sensor, by means of which a first rotational movement size 45.1 The drum rotation about its axis of rotation 35 execution rope drum 32. The first deflection pulley is coupled to a second sensor 45.2 36.1, by means of which second rotational movement amount of rotation about the first rotational axis pulleys 37.1 executing the first diverter pulley 36.1 is detected. The first sensor and the second sensor are 45.2 45.1 with a monitoring device 46, by means of which the first rotational movement size and the second rotational movement size may be compared to one another, wherein the monitoring device 46, when the first rotational movement of the second rotational movement size quantity in a first rotational movement differs, the sizes deviation exceeds a certain amount or threshold, a first signal, whereby either a first alert is generated or the rotation of the cable drum 32 about its axis of rotation of the drum 35 is stopped so that the cable 33 is not farther from the cable drum 32 is rinsed off. The invention also relates to an apparatus for performing the method.

#### Classifications:

**International (IPC 8-9):** B66B5/12 B66C13/10 B66C13/16

B66C15/06 B66C23/88 B66D1/39

**CPC:** B66C13/105 B66C15/06 B66C23/88 B66D1/505



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE102019102828 A1  | 20200806         | DE201910102828     | 20190205         |

#### Priority:

DE201910102828 20190205

**Probable Assignee:** FEUERWEHRKRAN TECHNIK UG

**Assignee(s):** (std): FEUERWEHRKRAN TECHNIK UG

**Inventor(s):** (std): KURZ KARL ; SCHMID GUENTER

**Agent(s):** GEITZ TRUCKENMUELLER LUCHT CHRIST PATENTANWALTE PARTGMBB

#### 41) Family number: 53817935 (US2014103062 AA)

© PatBase

**Title:** LARGE BOTTLE VENDING APPARATUS AND METHOD

**Abstract:** A combination vending/return apparatus and method. The apparatus includes a series of rows and columns for receiving, storing and dispensing unfilled and filled large-volume water-containing bottles from and to consumers. The apparatus includes a computer-operated vending keyboard for making bottle selections for purchase and returns, and to handle electronic payment and credit transactions. Also included is a method to vend large-volume water bottles and retrieve used and emptied large-volume water bottles.

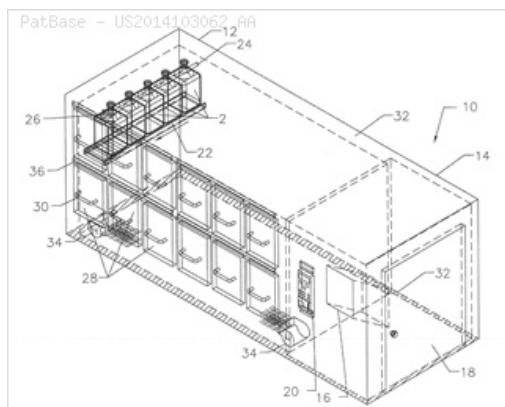
#### Classifications:

**International (IPC 8-9):** B65H1/00 B65H3/00 B65H3/44 G07F11/00

G07F11/28 G07F11/30 G07F11/34 G07F7/06

**CPC:** G07F11/28 G07F11/30 G07F11/34 G07F7/0609 G07F7/06

**US:** 1/1 221/124



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2854521 AA       | 20140424         | CA20122854521      | 20121116         |
| CA2854521 C        | 20170411         | CA20122854521      | 20121116         |
| US2014312051 AA    | 20141023         | US20120131684      | 20121116         |
| US9292994 BB       | 20160322         | US20120131684      | 20121116         |
| US2014103062 AA    | 20140417         | US20120651353      | 20121012         |
| US9373211 BB       | 20160621         | US20120651353      | 20121012         |
| WO13074915 A1      | 20130523         | WO2012US65503      | 20121116         |

**Priority:**

US20110546091P 20111012 US20110560835P 20111117 US20110568661P 20111209  
US20120407452 20120228 US20120654585P 20120601 US20120651353 20121012  
WO2012US65503 20121116 US20120131684 20121116

**Probable Assignee:** BLUEROCK VENTURES LLC

**Assignee(s):** (std): BLACK WARREN ; BLUEROCK VENTURES LLC ; BLUEROCK VENTURESK LLC ; DINOIA FRANK ; HORGAN RYAN ; HUTCHINS BURLEIGH ; O BRIEN BOB ; QUATTROCELLI ERIC ; RAY JAY ; ROSE III R EDWARD ; ROSE JR R EDWARD ; VERROCHI MICHAEL JAMES

**Assignee(s):** BLUEROCK VENTURES LLC80-L WASHINGTON SQUARENORWELLMA02061US ; HANCOCK STEPHEN H ; ROSE R EDWARD ; ROSE R EDWARD III ; VERROCHI MICHAEL J

**Inventor(s):** (std): BLACK WARREN ; DINOIA FRANK ; HANCOCK STEPHEN H ; HORGAN RYAN ; HUTCHINS BURLEIGH ; O BRIEN BOB ; QUATTROCELLI ERIC ; RAY JAY ; ROSE III R EDWARD ; ROSE JR R EDWARD ; ROSE R EDWARD ; ROSE R EDWARD III ; VERROCHI MICHAEL J ; VERROCHI MICHAEL JAMES

**Inventor(s):** HANCOCK STEPHEN HUS ; ROSE III R ; ROSE R ; ROSE R EDWARD IIIUS ; ROSE R EDWARDUS ; VERROCHI MICHAEL JUS

**Agent(s):** GASTLE AND ASSOCIATES; LORUSSO AND ASSOCIATES; LORUSSO MARK D

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 PA 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

**42) Family number: 28209288** (US2002082097 AA)

© PatBase

**Title:** WATER AMUSEMENT SYSTEM AND METHOD

**Abstract:** A water transportation system and method are described, generally related to water amusement attractions and rides. Further, the disclosure generally relates to water-powered rides and to a system and method in which participants may be actively involved in a water attraction. This transportation system comprises at least two water stations and at least one water channel connecting the at least two water stations for the purpose of conveying participants between the at least two water stations. In addition, the water transportation system may include conveyor belt systems and water locks configured to convey participants from a first source of water to a second source of water which may or may not be at a different elevation.

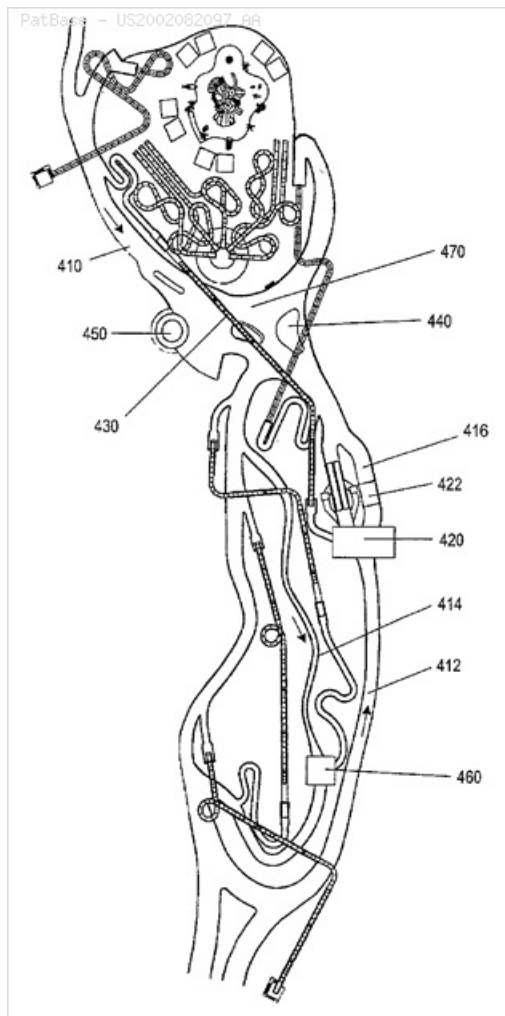
**Classifications:**

**International (ipc 8-9):** A63G21/00 A63G21/18 A63G3/00 A63G3/02 A63G31/00 A63G31/10

**International (ipc 1-7):** A63G21/18 A63G3/00 A63G3/02

**CPC:** A63G21/18 A63G3/02

**US:** 104/70 472/117 472/117P 472/128 472/13 472/13P



**Family:**

| Publication number     | Publication date | Application number | Application date |
|------------------------|------------------|--------------------|------------------|
| AT311232 E             | 20051215         | AT20010970881T     | 20010911         |
| AU200190826 A1         | 20020326         | AU20010090826      | 20010911         |
| AU200190826 A5         | 20020326         | AU20010090826      | 20010911         |
| AU200190832 A1         | 20020326         | AU20010090832      | 20010911         |
| AU200190832 A5         | 20020326         | AU20010090832      | 20010911         |
| AU2001290826 AA        | 20020326         | AU20010290826      | 20010911         |
| <b>AU2001290832 AA</b> | 20020326         | AU20010290832      | 20010911         |
| <b>AU2001290832 BB</b> | 20070802         | AU20010290832      | 20010911         |
| CA2422023 AA           | 20030311         | CA20012422023      | 20010911         |
| CA2422023 C            | 20090512         | CA20012422023      | 20010911         |
| CA2654714 AA           | 20020321         | CA20012654714      | 20010911         |
| <b>CA2654714 C</b>     | 20121030         | CA20012654714      | 20010911         |
| DE60115477 D1          | 20060105         | DE20016015477T     | 20010911         |
| DE60115477 T2          | 20060824         | DE20016015477T     | 20010911         |
| <b>EP1318864 A2</b>    | 20030618         | EP20010970881      | 20010911         |
| <b>EP1318864 B1</b>    | 20051130         | EP20010970881      | 20010911         |
| <b>EP1604712 A1</b>    | 20051214         | EP20050019093      | 20010911         |
| <b>US2002082097 AA</b> | 20020627         | US20010952036      | 20010911         |
| <b>US7285053 BB</b>    | 20071023         | US20010952036      | 20010911         |
| <b>US2005085306 AA</b> | 20050421         | US20040986720      | 20041112         |
| <b>US7491128 BB</b>    | 20090217         | US20040986720      | 20041112         |
| <b>US2005090321 AA</b> | 20050428         | US20040987099      | 20041112         |
| <b>US7371182 BB</b>    | 20080513         | US20040987099      | 20041112         |
| <b>US2005090320 AA</b> | 20050428         | US20040987994      | 20041112         |
| <b>US7740542 BB</b>    | 20100622         | US20040987994      | 20041112         |
| <b>US2006052171 AA</b> | 20060309         | US20050218330      | 20050901         |
| <b>US8197352 BB</b>    | 20120612         | US20050218330      | 20050901         |
| <b>US2006178222 AA</b> | 20060810         | US20050283503      | 20051118         |
| <b>US8070615 BB</b>    | 20111206         | US20050283503      | 20051118         |
| <b>WO0222226 A2</b>    | 20020321         | WO2001US28535      | 20010911         |
| WO0222226 A3           | 20020613         | WO2001US28535      | 20010911         |
| <b>WO0222227 A2</b>    | 20020321         | WO2001US28542      | 20010911         |
| WO0222227 A3           | 20020606         | WO2001US28542      | 20010911         |

**Priority:**

|                         |                        |                        |
|-------------------------|------------------------|------------------------|
| US20000231801P 20000911 | WO2001US28542 20010911 | WO2001US28535 20010911 |
| CA20012422023 20010911  | CA20012654714 20010911 | EP20010970881 20010911 |
| US20010952036 20010911  | US20040986720 20041112 | US20040987994 20041112 |
| US20040987099 20041112  | US20050218330 20050901 | US20050283503 20051118 |
| CA20092422023 20090319  |                        |                        |

**Probable Assignee:** HENRY SCHOOLEY AND ASSOCIATES LLC

**Assignee(s):** (std): HENRY JEFFERY W ; HENRY JEFFERY WAYNE ; NBGS INT INC ; NBGS INTERNAT INC ; NBGS INTERNATIONAL INC ; SCHOOLEY JOHN ; SCHOOLEY JOHN T ; SCHOOLEY JOHN TIMOTHY ; WATER RIDE CONCEPTS INC

**Assignee(s):** HENRY JEFFREY W ; HENRY JEFFREY WAYNE ; HENRY SCHOOLEY AND ASSOCIATES LLC ; NBGS INT

**Inventor(s):** (std): HENRY JEFFERY W ; HENRY JEFFERY WAYNE ; HENRY JEFFREY W ; HENRY JEFFREY WAYNE ; HENRY WAYNE ; SCHOOLEY JOHN ; SCHOOLEY JOHN T ; SCHOOLEY JOHN TIMOTHY

**Inventor(s):** HENRY JEFFERY ; JEFFERY W HENRY ; JEFFERY WAYNE HENRY ; JEFFREY W HENRY ; JOHN SCHOOLEY

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ERIC B; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; MEYERSTONS ERIC B; MEYERTONS ERIC B; MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

**43) Family number: 60019891 (US2016340067 AA)**

© PatBase

**Title:** PACKAGING AID, PACKING METHOD AND PACKING WORKPLACE

**Abstract:** It is disclosed a packing-work station for packing articles, which belong to one picking order, into shipping units comprising: a packing device comprising a packing plane where the articles are stackable to an article stack; a stacking aid having a plurality of lateral sides against which the articles are positioned to form the article stack, wherein the stacking aid is configured to be positioned on the packing plane; and a measuring device for determining dimensions of the article stack in order to individually produce the shipping unit in accordance with the so-determined dimensions; wherein the lateral sides of the stacking aid, which are closed in a circumferential direction of the stacking aid, are connected to each other; wherein the lateral sides define an open bottom side as well as an open top side of the stacking aid, wherein the lateral sides are adjustable in length at least along the circumferential direction for positioning the lateral sides circumferentially compact against the article stack; and wherein the measuring device is configured to measure a length of the lateral sides of the stacking aid as well as to determine a maximum height of the article stack and the measured lengths as well as to transmit the so-determined height to a package-production device which produces the shipping unit in accordance with the measured lengths and the determined height.

**Classifications:**

**International (IPC 8-9):** B65B11/00 B65B35/50 B65B39/02  
B65B43/08 B65B57/00 B65B57/12 B65B59/00 B65B67/10 B65B7/16  
**CPC:** B65B11/004 B65B2210/04 B65B35/50 B65B39/02 B65B43/08  
B65B57/12 B65B59/001 B65B59/003 B65B67/10 B65B7/16  
**US:** 1/1 53/447



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2897654 AA       | 20160115         | CA20152897654      | 20150715         |
| US10012038 BB      | 20180703         | US20150800624      | 20150715         |
| US2016017674 AA    | 20160121         | US20150800624      | 20150715         |
| US10422192 BB      | 20190924         | US20180982316      | 20180517         |
| US2018266196 AA    | 20180920         | US20180982316      | 20180517         |

**Priority:**

US20140024471P 20140715 US20150800624 20150715 US20180982316 20180517

**Probable Assignee:** WARRIOR RIG TECHNOLOGIES LTD

**Assignee(s):** (std): WARRIOR RIG LTD ; WARRIOR RIG TECH LTD

**Assignee(s):** BLACKLOCK JEFFERY DAVID ; RICHARDSON ALLAN STEWART ; ROOT PETER ERNEST JAMES ; WARRIOR ENERGY TECHNOLOGIES LTD ; WARRIOR RIG TECHNOLOGIES LTD

**Inventor(s):** (std): BLACKLOCK JEFFERY DAVID ; RICHARDSON ALLAN STEWART ; ROOT PETER ERNEST JAMES

**Agent(s):** OYEN WIGGS GREEN AND MUTALA LLP

**45) Family number: 66336186** (US2017197725 AA)

© PatBase

**Title:** APPARATUS AND METHOD FOR AERIAL RECOVERY OF AN UNMANNED AERIAL VEHICLE

**Abstract:** An apparatus and method for aerial recovery of an unmanned aerial vehicle (UAV) are provided. The apparatus includes a rigid base having a first section and a second section, wherein the first section is securely mounted to a floor of an aircraft. The apparatus further includes a servicing platform moveably mounted to the base and configured to move along a direction parallel to a longitudinal axis of the aircraft such that in an extended position, the servicing platform at least partially protrudes from a rear cargo door of the aircraft, wherein the servicing platform comprises a capturing mechanism configured to capture the UAV in the extended position.

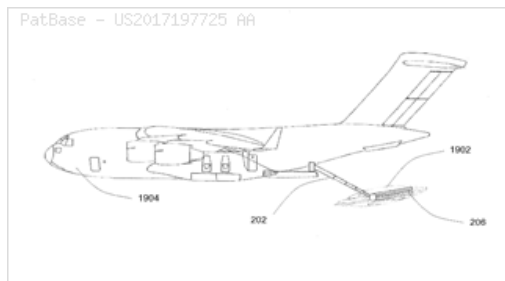
**Classifications:**

**International (IPC 8-9):** B64C39/02 B64C39/10 B64D39/02 B64D43/00 B64D47/08 B64D7/00

**CPC:** B64C2039/105 B64C2201/063 B64C2201/082 B64C2201/104 B64C2201/121 B64C2201/141 B64C2201/182 B64C2201/185

B64C39/024 Y02T50/10

**US:** 1/1 244/110E



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| SG10201600154W A1  | 20170830         | SG20161000154      | 20160108         |
| US10589859 BB      | 20200317         | US20170400796      | 20170106         |
| US2017197725 AA    | 20170713         | US20170400796      | 20170106         |

**Priority:**

SG20161000154 20160108

**Probable Assignee:** ST ENGINEERING AEROSPACE LTD

**Assignee(s):** (std): SINGAPORE TECH AEROSPACE LTD ; ST ENG AEROSPACE LTD

**Assignee(s):** SINGAPORE TECHNOLOGIES AEROSPACE LTD ; ST ENGINEERING AEROSPACE LTD

**Inventor(s):** (std): FOO CHI HUI FREDERIC ; HSI HAN LIN

**Agent(s):** NORTON ROSE FULBRIGHT US LLP; SPRUSON AND FERGUSON ASIA PTE LTD

**46) Family number: 69819581** (US2018144642 AA)

© PatBase

**Title:** SYSTEM AND METHOD FOR INTELLIGENT AND SECURE STORAGE UNIT

**Abstract:** An intelligent and secure storage unit includes a plurality of storage compartments, an environmental control apparatus, a transceiver, and a control circuit. The environmental control apparatus is configured to individually control environmental conditions in each of the plurality of storage compartments. The control circuit assigns individual compartments according to an identity of the courier using the compartment, and whether the compartment will receive a package from a courier or return a package to the courier. The unmanned autonomous vehicle deposits a package, the control circuit obtains environmental information concerning environmental conditions required by the package, and adjusts the environmental control apparatus of the selected compartment to provide the environmental conditions required by the package.

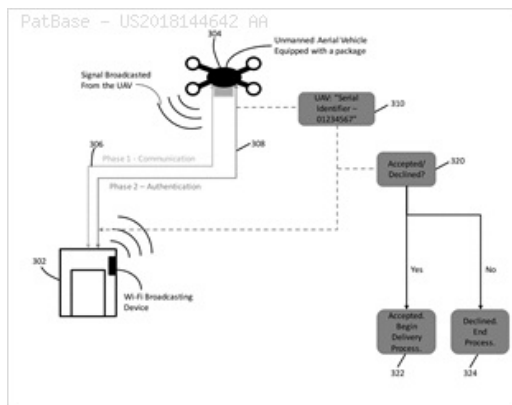
**Classifications:**

**International (IPC 8-9):** A47G29/12 A47G29/124 A47G29/14 B64C39/02 G06Q10/08 G06Q50/28 G08G5/00 H04W12/06

**CPC:** A47G2029/145 A47G2029/147 A47G2029/149 A47G29/141 B64C2201/128 B64C2201/146 B64C39/024 G06Q10/083 G06Q50/28 G08G5/0013 G08G5/0069 H04W12/06 H04W4/021 H04W4/35

H04W4/80

**US:** 1/1 705/330



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA3044443 AA       | 20190517         | CA20173044443      | 20171121         |
| GB201907542 A0     | 20190710         | GB20190007542      | 20171121         |
| GB2570432 A1       | 20190724         | GB20190007542      | 20171121         |
| MX2019005914 A1    | 20191121         | MX20190005914      | 20171121         |
| US2018144642 AA    | 20180524         | US20170814209      | 20171115         |
| WO18098131 A1      | 20180531         | WO2017US62729      | 20171121         |

#### Priority:

US20160425147P 20161122 US20170814209 20171115 WO2017US62729 20171121

**Probable Assignee:** WALMART APOLLO LLC

**Assignee(s):** (std): WAL MART STORES INC ; WALMART APOLLO LLC

**Assignee(s):** HIGH DONALD R ; O BRIEN JOHN J

**Inventor(s):** (std): DONALD R HIGH ; HIGH DONALD R ; JOHN J O BRIEN ; O BRIEN JOHN J

**Agent(s):** DEETH WILLIAMS WALL LLP; KRATZ RUDY ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

#### 47) Family number: 43721694 (US7588146 BA)

© PatBase

**Title:** COMPUTER CASE

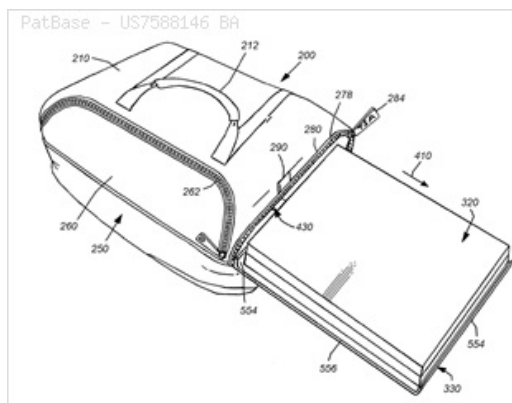
**Abstract:** This invention provides a case system that removably stores a laptop computer so that it can be removed normally through the top of the case when needed, but also through a flap formed in the side of the case while residing upon a tray with retention lips on at least three sides. The case can be a briefcase, messenger bag or backpack, among other styles. The tray edge facing the top opening is free of any lip or raised obstruction to allow laptop removal from the case through a conventional top flap. The tray is withdrawn/slid from the side of the case unzipping and opening the side flap. The tray is tethered to the case interior so that it extends only slightly beyond the adjacent edge of the case. In this manner, the tray/laptop is prevented from excess rotational movement (e.g. jackknifing) with respect to the case. The tray is free of any x-ray opaque structures or materials, thereby allowing an unobstructed scan to be performed on the laptop. A zipper pull, a fabric loop structure formed adjacent to the side flap, and/or the side flap itself an indicia that clearly indicates regulatory approval of the case. Alternatively, a case is provided, having a central zipper that extends along three side edges along its midline thickness allows it to be opened, clamshell-like into two opposing halves. The laptop is enclosed within one of the halves. The lips prevent excursion of the laptop from the case half as it moves through the scanner. The laptop-containing half omits metallic or other x-ray-opaque structures that would overlie or underlie the laptop. Likewise, as required no obstructions of any kind overlie the laptop. The case of this embodiment can include appropriate indicia indicating regulatory approval.

#### Classifications:

**International (IPC 8-9):** B65D85/00

**CPC:** A45C11/00 A45C13/02 A45C2011/003 G06F1/1628

**US:** 190/110 190/112 206/320



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US7588146 BA       | 20090915         | US20080168712      | 20080707         |

#### Priority:

US20080168712 20080707

**Probable Assignee:** GEM GROUP INC

**Assignee(s):** (std): GEM GROUP INC  
**Assignee(s):** THE GEM GROUP INC  
**Inventor(s):** (std): BELLOFATTO RICHARD C ; REESE QUINCY ; SALANDER MARK T  
**Agent(s):** LOGINOV AND ASSOCIATES PLLC; WILLIAM A

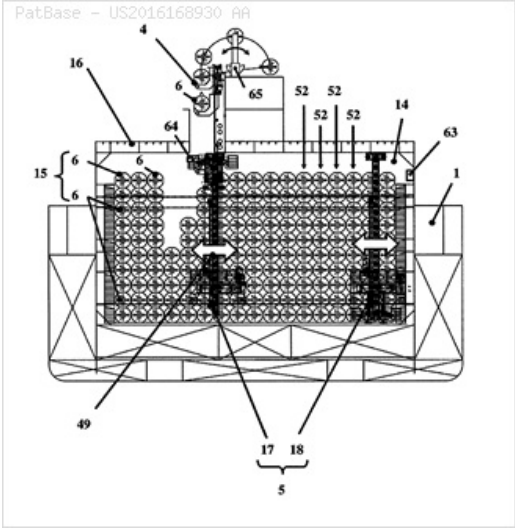
**48) Family number: 57436678 (US2016168930 AA)** © PatBase

**Title:** SYSTEM FOR HANDLING RISER PIPE

**Abstract:** System for handling riser pipe on an offshore vessel comprising a lifting device for lifting the pipe from a storage zone onto the deck.

**Classifications:**

**International (IPC 8-9):** B63B25/00 B63B27/00 B63B27/08  
B63B27/16 B63B35/03 B63B35/44 B66C11/12 E21B17/01 E21B19/14  
E21B19/15  
**CPC:** B63B35/03 E21B17/01 E21B19/143 B63B25/002 B63B27/02  
B63B27/08 B63B27/16 B63B2708/00 B63B35/4413 B66C11/12  
E21B19/15  
**US:** 414/22.62 1/1



**Family:**

| Publication number  | Publication date | Application number   | Application date |
|---------------------|------------------|----------------------|------------------|
| CN105247162 A       | 20160113         | CN201480029122       | 20140311         |
| DE602014012249 D1   | 20170907         | DE201460012249T      | 20140311         |
| EP2976489 A2        | 20160127         | EP20140711682        | 20140311         |
| <b>EP2976489 B1</b> | <b>20170726</b>  | <b>EP20140711682</b> | <b>20140311</b>  |
| ITUD20130038 A1     | 20140921         | IT2013UD00038        | 20130320         |
| KR20160002798 A     | 20160108         | KR20157030199        | 20140311         |
| US2016168930 AA     | 20160616         | US20140904835        | 20140311         |
| US9719313 BB        | 20170801         | US20140904835        | 20140311         |
| WO14146759 A2       | 20140925         | WO2014EP00633        | 20140311         |
| WO14146759 A3       | 20150129         | WO2014EP00633        | 20140311         |

**Priority:**

IT2013UD00038 20130320 WO2014EP00633 20140311 EP20140711682 20140311

**Probable Assignee:** FINCANTIERI SPA

**Assignee(s):** (std): FINCANTIERI CANTIERI NAVALI IT ; FINCANTIERI S P A ; NAVALIMPIANTI S P A

**Assignee(s):** FINCANTIERI CANTIERI NAVALI ITALIAN I SPA

**Inventor(s):** (std): AMBROSIO LUCA ; MISSION ANGELO ; MISSION ANGELO

**Agent(s):** D AGOSTINI GIOVANNI; DAGOSTINI GIOVANNI; EGBERT LAW OFFICES PLLC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

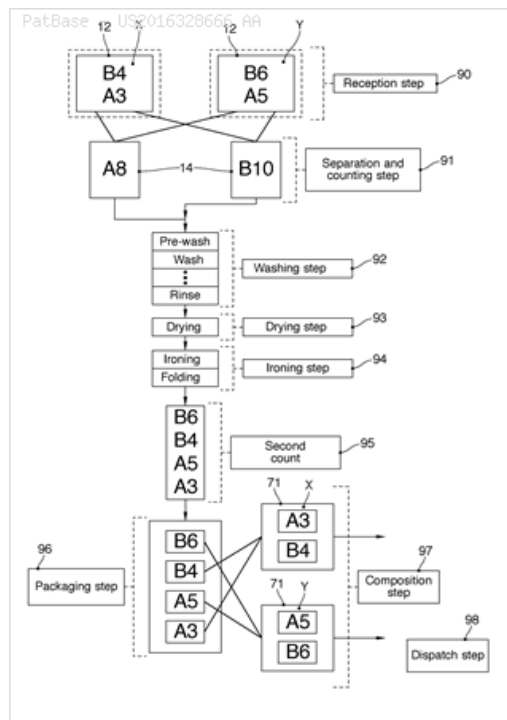
**49) Family number: 63924099 (US2016328666 AA)** © PatBase

**Title:** METHOD FOR TREATING TEXTILE ARTICLES AND CORRESPONDING TREATMENT PLANT

**Abstract:** Method for treating textile articles that comprises at least receiving textile articles from a plurality of clients (X, Y), the processing of a temporal program of delivery orders of the textile articles to the clients (X, Y) with identification of a priority treatment order of the textile articles of the clients; the separation (91) of the textile articles of the clients (X, Y) into types (A, B); the washing (92), the drying (93) and the ironing (94) of the textile articles; the second counting (95) of the textile articles, to divide them into groups of articles (A3, A5, B4, B6) to be sent to each of the clients (X, Y); the packaging (96) for each group of articles (A3, A5, B4, B6) into packages bearing an indication of the destination to one of the clients (X, Y); and the composition (97) to make up a delivery order for each client (X, Y) during which the packages are allocated to the specific delivery order as a function of said destination indication.

**Classifications:**

**International (IPC 8-9):** D06F93/00 G06Q10/06 G06Q10/08  
**CPC:** D06F93/00 G06Q10/0633 G06Q10/08  
**US:** 1/1 705/7.27



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE602016001063 D1  | 20180125         | DE201660001063T    | 20160506         |
| EP3091122 A1       | 20161109         | EP20160168664      | 20160506         |
| EP3091122 B1       | 20171213         | EP20160168664      | 20160506         |
| US2016328666 AA    | 20161110         | US20160148608      | 20160506         |

#### Priority:

IT2015UD00063 20150508 EP20160168664 20160506

**Probable Assignee:** GHINI DAMIANO

**Assignee(s):** (std): GHINI DAMIANO

**Inventor(s):** (std): GHINI DAMIANO

**Agent(s):** PETRAZ DAVIDE LUIGI; VIERING JENTSCHURA AND PARTNER MBB PATENT U RECHTSANWAELTE

**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

#### 50) Family number: 33529493 (US2003017034 AA)

© PatBase

**Title:** AUTOMATED SEMICONDUCTOR PROCESSING SYSTEM

**Abstract:** A semiconductor processing system for wafers or other semiconductor articles. The system uses an interface section at an end of the machine accessible from the clean room. A plurality of processing stations are arranged away from the clean room interface. A transfer subsystem removes wafers from supporting carriers, and positions both the wafers and carriers onto a carousel which is used as an inventory storage. Wafers are shuttled between the inventory and processing stations by a robotic conveyor which is oriented to move toward and away from the interface end. The system processes the wafers without wafer carriers.

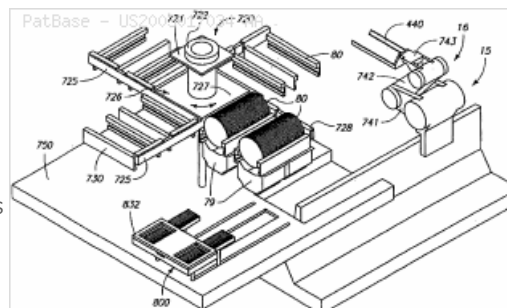
#### Classifications:

**International (IPC 8-9):** B65G49/07 H01L21/00 H01L21/673 H01L21/677 H01L21/687

**International (IPC 1-7):** B65G49/05 B65G49/07

**CPC:** H01L21/67173 H01L21/67207 H01L21/67313 H01L21/67326 H01L21/67754 H01L21/67766 H01L21/67769 H01L21/67772 H01L21/67775 H01L21/67778 H01L21/67781 H01L21/68707 Y10S134/902 Y10S414/14 Y10S414/141

**US:** 414/217 414/217S 414/222.13 414/222.130S 414/404 414/404P 414/416.01 414/416.03 414/416.12 414/416.120S 414/719 414/719S 414/940 414/941



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2003017034 AA    | 20030123         | US20010845458      | 20010430         |
| US6712577 BB       | 20040330         | US20010845458      | 20010430         |

#### Priority:

US19940236424 19940428  
US19960622349 19960326  
US19970851480 19970505

US19950415927 19950331  
US19960680463 19960715  
US19980187652 19981106

US19960623349 19960322  
US19960698034 19960815  
US20010845458 20010430

**Probable Assignee:**

SEMITOOL INC

**Assignee(s):** (std):

SEMITOOL INC

**Assignee(s):** CURTIS GARY L ; DAVIS JEFFREY A  
**Inventor(s):** (std): CURTIS GARY L ; DAVIS JEFFREY A  
**Inventor(s):** GARY L CURTIS ; JEFFREY A DAVIS

**51) Family number: 28287784** (US2002189462 AA)

© PatBase

**Title:** AUTOMATIC COOKING MONITOR, DEVICE, SYSTEM AND METHOD WHICH OPERATE IN ACCORDANCE WITH THE THERMAL EQUALIZATION OF A HEATED COMESTIBLE

**Abstract:** An automatic cooking monitor, control device and method are described which are able to cook a food item of any weight to an exact degree of doneness by either alerting a user to provide a substantially ambient temperature environment to a food item having been heated to a primary referenced internal temperature prior to final doneness; or by automatically and rapidly providing a reduced temperature environment in response to the food item's internal temperature then alerting the user to the conclusion of an adiabatic cycle as recognized by the monitor and control device.

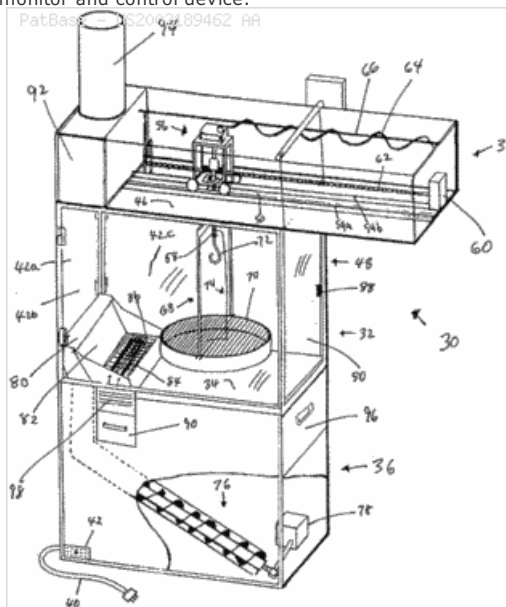
**Classifications:**

**International (IPC 8-9):** A47J27/56 A47J27/62 A47J37/04

**International (IPC 1-7):** A23L1/00 A47J37/04

**CPC:** A47J36/321 A47J37/04 A47J37/041 A47J37/043 A47J37/046

**US:** 99/326 99/334 99/419 99/421 99/421H



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2002189462 AA    | 20021219         | US20020109478      | 20020327         |
| US2005160920 AA    | 20050728         | US20040005619      | 20041206         |

**Priority:**

US20010279261P 20010328 US20020109478 20020327 US20040005619 20041206

**Probable Assignee:** GUESS WILLIAM Y  
**Assignee(s):** (std): GUESS WILLIAM Y ; GUESS WILLIAM YOUNGER  
**Inventor(s):** (std): GUESS WILLIAM Y ; GUESS WILLIAM YOUNGER  
**Inventor(s):** GUESS WILLIAM ; WILLIAM YOUNGER GUESS  
**Agent(s):** WILLIAM YOUNGER GUESS

**52) Family number: 73131069** (WO19025872 A2)

© PatBase

**Title:** AUTONOMOUS CITY TRANSPORTATION MEANS WITH ARTIFICIAL TELEPATHY

**Abstract:** An autonomous city transportation means based on and interchangeable autonomous aero-land vehicle (AALV) 20 UAVs 22, autonomous vehicles 66 interactive and collaborative in-between and with other machines, robots, buildings, structures, and humans via intelligent artificial telepathy (IAT) devices 21. The autonomous aero-land vehicles (AALV) 20 are of compact and easily interchangeable shapes, with storable side propellers and stowable top propellers. The intelligent artificial telepathy (IAT) devices 21 are based on vastly modified RFID (Radio-Frequency Identification) chips 53, adding to the uploaded data parameters related to GPS spatial location, and motion parameters, a geometry parameter data related to a grided actual shape, geometry, topography, texture, tilt angles and dimensions of each constituent of this shape to assist in locating perfectly each occupied part in the space by each physical dynamic or static body, to move, transport, communicate, predict, engage, synchronize, fit, or cooperate with each in a perfect manner with the least numbers of devices depending mainly on (IAT).

**Classifications:**

**International (IPC 8-9):** B60F5/00 G06Q10/00 H04M15/00

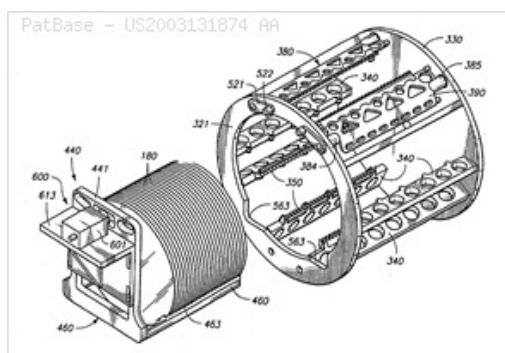
H04W4/24

**CPC:** B60F5/00 G06Q10/00 H04M15/68 H04W4/24

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO19025872 A2      | 20190207         | WO20181B01355      | 20181126         |
| WO19025872 A3      | 20191003         | WO20181B01355      | 20181126         |

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TN TR TT TZ UA UB UG UZ VC VN ZA ZM ZW

**US:** 134/148 134/157 134/33 134/33P 134/78 134/902



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2003131874 AA    | 20030717         | US20030336197      | 20030103         |
| US6871655 BB       | 20050329         | US20030336197      | 20030103         |

**Inventor(s):** (std): CURTIS GARY L ; DAVIS JEFFREY A

**Inventor(s):** GARY L CURTIS ; JEFFREY A DAVIS  
**Agent(s):** PERKINS COIE LLP

**54) Family number: 33529565** (US2005045214 AA)

© PatBase

**Title:** AUTOMATED SEMICONDUCTOR PROCESSING SYSTEMS

**Abstract:** A semiconductor processing system for wafers or other semiconductor articles. The system uses an interface section at an end of the machine accessible from the clean room. A plurality of processing stations are arranged away from the clean room interface. A transfer subsystem removes wafers from supporting carriers, and positions both the wafers and carriers onto a carousel which is used as an inventory storage. Wafers are shuttled between the inventory and processing stations by a robotic conveyor which is oriented to move toward and away from the interface end. The system processes the wafers without wafer carriers.

**Classifications:**

**International (IPC 8-9):** B08B3/02 B65G49/07 H01L21/00

H01L21/673 H01L21/677 H01L21/687

**International (IPC 1-7):** B08B3/00

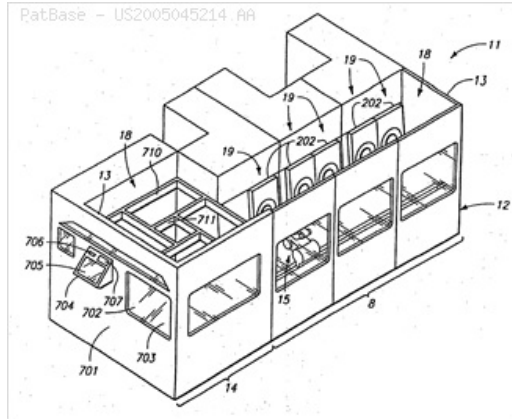
**CPC:** H01L21/67173 H01L21/67207 H01L21/67313 H01L21/67326

H01L21/67754 H01L21/67766 H01L21/67769 H01L21/67772

H01L21/67775 H01L21/67778 H01L21/67781 H01L21/68707

Y10S134/902 Y10S414/14 Y10S414/141

**US:** 134/133 134/66 134/78 134/78P 134/902



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2005045214 AA    | 20050303         | US20040941360      | 20040914         |
| US7080652 BB       | 20060725         | US20040941360      | 20040914         |

**Priority:**

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| US19940236424 19940428 | US19950415927 19950331 | US19960622349 19960326 |
| US19960680463 19960715 | US19960698034 19960815 | US19970851480 19970505 |
| US19980187652 19981106 | US20010845458 20010430 | US20030336197 20030103 |
| US20040941360 20040914 |                        |                        |

**Probable Assignee:** SEMITOOL INC

**Assignee(s):** (std): SEMITOOL INC

**Inventor(s):** (std): CURTIS GARY L ; DAVIS JEFFREY A

**Inventor(s):** CURTIS GARY ; DAVIS JEFFREY

**Agent(s):** PERKINS COIE LLP; PERKINS COIE LLP SEMITOOL

**55) Family number: 34721433** (BRPI0601126 A)

© PatBase

**Title:** HEATING SYSTEM BI-DIRECT convective ENERGETICO AND VERTICAL ROTARY OVEN USED IN FOOD PRODUCTION  
(Machine translation)

**Abstract:** Source: BRPI0601126 A **Machine translation:** 1 • T • J (-3) • u • JC JJ ne • • • • • ? • • • • c \_ the Summary of Invention Patent "HEATING SYSTEM convective DIRECT BI-ENERGETICO AND VERTICAL ROTARY OVEN USED IN PRODUCTION food TOS "which results practical converges to a device with five different performance under the optic of productivity and final quality of the food, where the oven (A) and formed by the furnace body (1), access door (2), the access to a baking chamber (8) in its internal porcao, in which food and effectively roast through an a- HIPING heating system \_ and gt;. v \* • j # • • • • o • \* and gt; } jo # '1' • u # 3 • \* .. • • 'to • »j # • w • • • • ;" and gt; • \* o • v • • vu «» i #

**Classifications:**

**International (IPC 8-9):** A21B1/00 A21B1/24

**International (IPC 1-7):** A21B1/24



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| BRPI0601126 A      | 20060926         | BR2006PI01126      | 20060320         |

VINCENZO FLORIO

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CN110446448 A      | 20191112         | CN201780088229     | 20170504         |
| EP3592194 A1       | 20200115         | EP20170899749      | 20170504         |
| EP3592194 A4       | 20201209         | EP20170899749      | 20170504         |

|                   |          |                |          |
|-------------------|----------|----------------|----------|
| HK40012917 A1     | 20200731 | HK20206002303  | 20200206 |
| SG11201906181Y A1 | 20190827 | SG20191106181  | 20170504 |
| US10905306 BB     | 20210202 | US20170455536  | 20170310 |
| US2018256001 AA   | 20180913 | US20170455536  | 20170310 |
| WO18161425 A1     | 20180913 | WO2017CN083098 | 20170504 |

**Priority:**

US20170455536 20170310 WO2017CN083098 20170504

**Probable Assignee:** CONTINENTAL CLEAN TECH LTD

**Assignee(s):** (std): CHAN KAM POR ; CONTINENTAL CLEAN TECH LTD ; WONG KWOK DIN

**Inventor(s):** (std): CHAN KAM POR ; WONG KWOK DIN

**Agent(s):** CHINA PATENT AGENT HK LTD; CHINA PATENT AGENT HONG KONG LTD; FLYNN THIEL PC; PATENTANWAELTE MAGENBAUER AND KOLLEGEN PARTNERSCHAFT MBB

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

**57) Family number: 24677207 (US2004158350 AA)**

© PatBase

**Title:** MEDICINE DISPENSER

**Abstract:** The present invention relates to the art of dispensing medicine to a user of medicine, and relates in particular to a medicine dispenser for dispensing doses of medicaments, a loader for loading doses of medicine into the medicine dispenser, a medicine distribution box, a packing device for packing medicaments in predefined doses, a Central Medication Database and a system comprising all these objects. Furthermore, the invention relates to a method of dispensing doses of medicaments, a method of loading medicine into a medicine dispenser, a method of distributing medicine, a method of packing medicaments in predefined doses, a method of carrying out various aspects related to dispensing medicine as well as a method integrating all the above mentioned methods.

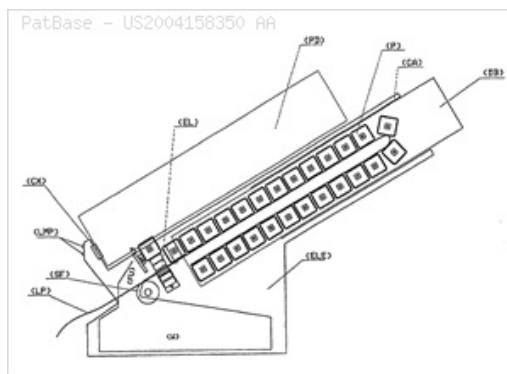
**Classifications:**

**International (IPC 8-9):** A61J1/00 A61J1/03 A61J3/00 A61J7/00 A61J7/04

**International (IPC 1-7):** A61J3/00 A61J7/00 A61J7/04 G06F17/00 G06F19/00

**CPC:** A61J1/035 A61J7/0454 A61J7/0463 A61J7/0481 G07F11/44 G07F11/60 G07F17/0092 G16H20/13

**US:** 700/231 700/231P



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2002342196 AA    | 20021125         | AU20020342196      | 20020515         |
| EP1389083 A2       | 20040218         | EP20020769454      | 20020515         |
| JP2004534571 T2    | 20041118         | JP20020588906T     | 20020515         |
| US2004158350 AA    | 20040812         | US20040477019      | 20040412         |
| WO02091987 A2      | 20021121         | WO2002DK00318      | 20020515         |
| WO02091987 A3      | 20030424         | WO2002DK00318      | 20020515         |

**Priority:**

DK20010000766 20010515 WO2002DK00318 20020515

**Probable Assignee:** E MEDICATION APS

**Assignee(s):** (std): BARFOED JESPER ; GEISLER OLE ; MEDICATION APS E ; OLSEN OLE INGEMANN ; OSTERGAARD JENS

**Assignee(s):** E MEDICATION APS

**Inventor(s):** (std): BARFOED JESPER ; GEISLER OLE ; OLSEN OLE INGEMANN ; OSTERGAARD JENS

**Inventor(s):** JENS OSTERGAARD ; JESPER BARFOED ; OLE GEISLER ; OLE INGEMANN OLSEN

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

**58) Family number: 76111641 (US2019308820 AA)**

© PatBase

**Title:** CONVEYOR SYSTEM WITH AUTOMATED CARRIERS

**Abstract:** A conveyor system comprising a fixed, non-powered rail defining a conveyor path and an automated conveyor carrier (ACC) supported on the rail to be movable along the conveyor path. The ACC includes an on-board motor and an on-board electrical power source selectively powering the on-board motor to drive the ACC along the rail. The ACC may include a wireless sleep mode module operable to selectively shut off power to an on-board ACC controller.

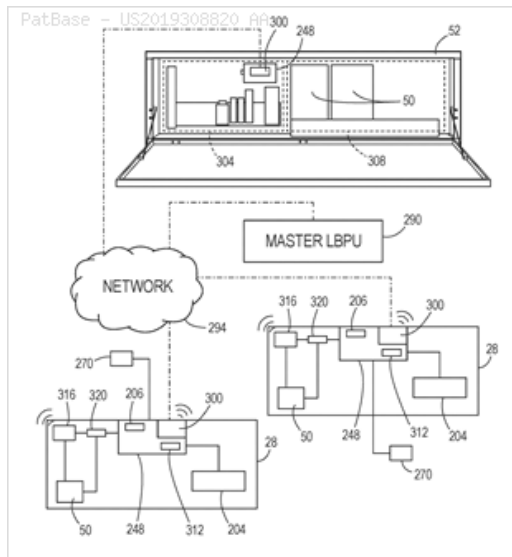
**Classifications:**

**International (IPC 8-9):** B61B3/02 B65G19/02 B65G19/18

B65G21/20 B65G43/00 G01N35/02 G06Q10/08

**CPC:** B61B10/00 B65G17/485 B65G19/025 B65G19/185

B65G2203/0291 B65G2811/0673 B65G43/00 B65G9/002 B65G9/006

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA3039328 AA       | 20191006         | CA20193039328      | 20190405         |
| MX2019003979 A1    | 20191007         | MX20190003979      | 20190405         |
| US2019308820 AA    | 20191010         | US20190376142      | 20190405         |

**Priority:**

US20180653836P 20180406      US20190376142 20190405

**Probable Assignee:** SST SYSTEMS INC

**Assignee(s):** (std): SST SYSTEMS INC

**Assignee(s):** ANDREA BRADLEY M ; ANDREA CHAD MARTIN ; MANN STEPHEN C ; SCOVILLE ANTHONY C

**Inventor(s):** (std): ANDREA BRADLEY M ; ANDREA CHAD MARTIN ; ANTHONY C SCOVILLE ; BRADLEY M ANDREA ; CHAD MARTIN ANDREA ; MANN STEPHEN C ; SCOVILLE ANTHONY C ; STEPHEN C MANN

**Agent(s):** FINLAYSON AND SINGLEHURST

**59) Family number: 64142136 (US9508208 BA)**

© PatBase

**Title:** SYSTEMS, METHODS AND DEVICES FOR PROCESSING COINS WITH LINEAR ARRAY OF COIN IMAGING SENSORS

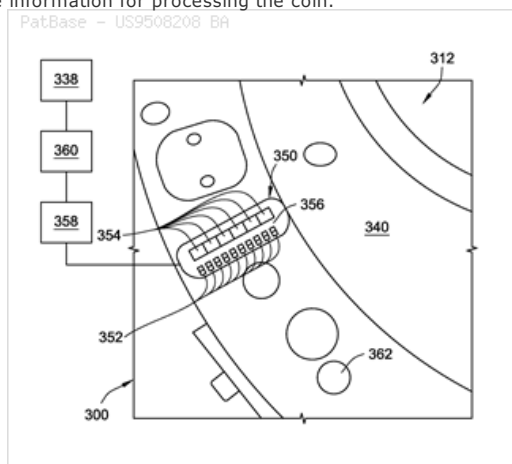
**Abstract:** Currency processing systems, coin processing machines, and methods of imaging coins are presented herein. A currency processing system is disclosed which includes a housing with a coin input area for receiving coins and coin receptacles for stowing processed coins. A disk-type coin processing unit is coupled to the coin input area and coin receptacles. The disk-type coin processing unit includes a rotatable disk for imparting motion to the coins, and a sorting head having a lower surface adjacent the rotatable disk. The lower surface forms various shaped regions for guiding the coins, under the motion imparted by the rotatable disk, to exit channels through which the coins are discharged to the coin receptacles. A linear array of sensors is mounted to the sorting head and/or the rotatable disk. The sensors examine each coin on the rotatable disk and output a signal indicative of coin image information for processing the coin.

**Classifications:**

**International (IPC 8-9):** G06K7/08 G06K7/10 G06K9/20 G07D11/00 G07D11/22 G07D3/00 G07D3/14 G07D5/08

**CPC:** G06K7/08 G06K7/10 G06K9/20 G06K9/209 G07D11/22 G07D3/00 G07D3/14 G07D5/08 G06K9/62 G07D3/06 G07D9/008

**US:** 1/1

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US9508208 BA       | 20161129         | US20150804670      | 20150721         |
| US9870668 BA       | 20180116         | US20160360004      | 20161123         |
| US10068406 BA      | 20180904         | US20170835989      | 20171208         |
| US2020312074 AA    | 20201001         | US20200902094      | 20200615         |

**Priority:**

US20140022373P 20140709      US20140029195P 20140725      US20140077992P 20141111  
 US20150794262 20150708      US20150804670 20150721      US20150936846 20151110  
 US20160356295 20161118      US20160360004 20161123      US20170461046 20170316

**Probable Assignee:** CUMMINS ALLISON CORP**Assignee(s):** (std): CUMMINS ALLISON CORP**Inventor(s):** (std): CHOI HOWARD ; CSULITS FRANK M ; JAGIELINSKI TOMASZ M ; MECKLENBURG DAVID J ; TOMOR MATHEW ; TOMOR MATTHEW ; YACOUBIAN ARAZ ; YANG DANNY D**Agent(s):** GREER BURNS AND CRAIN LTD**60) Family number: 51558726** (US2012185086 AA)

© PatBase

**Title:** AUTOMATED PIZZA PREPARATION APPARATUS

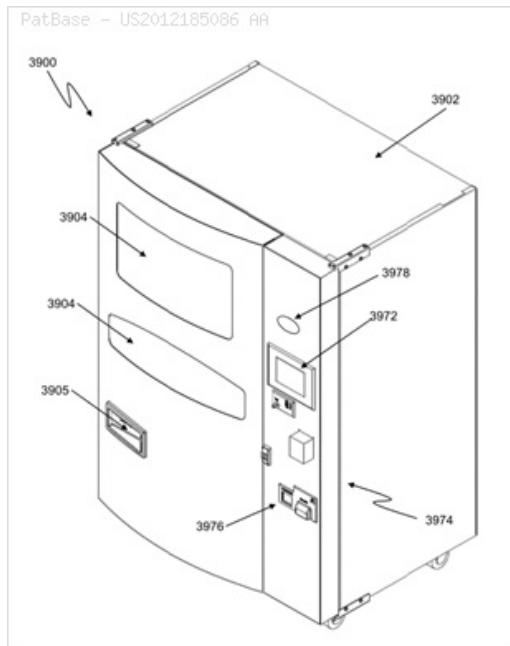
**Abstract:** Automated apparatus for preparing pizza, and method of operating same. A customer selects a type of pizza, such as toppings or crust style. The apparatus slices and defrosts dough, applies cheese, slices and applies toppings, and cooks the pizza to order. The cooked pizza is packaged for delivery to the customer and may include a separate cutting apparatus. Proper temperature of hot and cold sections is maintained while ingredients are stored and as the pizza is cooked. The process is monitored and controlled by one or more processors.

**Classifications:**

**International (IPC 8-9):** A21B1/00 A21B1/42 A21C11/00 A21C3/00 A21C9/08 A21D13/00 A21D6/00 A21D8/02 A23L1/01 A23L5/10 A23P1/00 B65G35/00 F27B9/14 F27B9/16 F27B9/30 F27D3/12 G06F17/00

**CPC:** A21C11/006 A21C5/00 A21C9/04 A21D13/41 A21D8/02 G07F11/70 G07F17/0078

**US:** 219/388 219/392 219/400 414/676 426/231 426/231S 426/523 432/122 432/138 432/142 700/233 700/233P 99/334 99/334S 99/345 99/345S 99/349 99/349S 99/443C 99/450

**Family:**

| Publication number     | Publication date | Application number | Application date |
|------------------------|------------------|--------------------|------------------|
| AR084889 AA            | 20130710         | AR2012P100170      | 20120118         |
| TW201236568 A          | 20120916         | TW20120101943      | 20120118         |
| <b>US2012185086 AA</b> | 20120719         | US20120353123      | 20120118         |
| <b>US2012308702 AA</b> | 20121206         | US20120467568      | 20120509         |
| <b>US8710408 BB</b>    | 20140429         | US20120467568      | 20120509         |
| <b>WO12099969 A1</b>   | 20120726         | WO2012US21734      | 20120118         |

**Priority:**

US20110433928P 20110118 US20120353123 20120118 US20120467568 20120509

**Probable Assignee:** K AND G ENTERPRISES LLC**Assignee(s):** (std): K AND G ENTPR LLC ; KHATCHADOURIAN PUZANT ; KNELLER MIKHAIL ; PAPAKHIAN DANIEL ; YEUNG GEORGE**Assignee(s):** K AND G ENTERPRISES LLC**Inventor(s):** (std): KHATCHADOURIAN PUZANT ; KNELLER MIKHAIL ; PAPAKHIAN DANIEL ; YEUNG GEORGE**Agent(s):** STROOCK AND STROOCK AND LAVAN LLP; YANNEY PIERRE R 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

**61) Family number: 45000296** (US2010122633 AA)

© PatBase

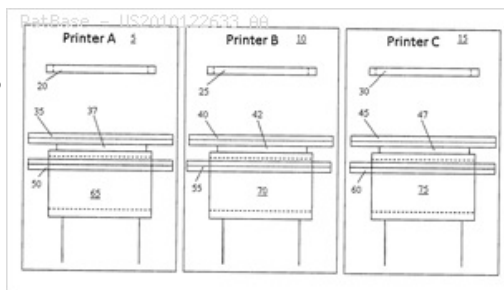
**Title:** VERTICALLY SEPARATED PASS THROUGH CONVEYOR SYSTEM AND METHOD IN SURFACE MOUNT TECHNOLOGY PROCESS EQUIPMENT

**Abstract:** Disclosed herein is an apparatus for depositing viscous material on an electronic substrate. The apparatus comprises a frame, an assembly material applicator coupled to the frame and configured to apply assembly material to the electronic substrate, a substrate support assembly, coupled to the frame, configured to support and secure the electronic substrate in a material application position, and a transport system, coupled to the frame, to shuttle electronic substrates to and from the substrate support assembly, the transport system including an upper track and a lower track disposed below the upper track.

**Classifications:**

**International (IPC 8-9):** B05C11/02 B05C13/00 B05C13/02 B05C17/00 B05C17/06 B05C17/08 B05D5/12 B41F15/08 B41F15/12

B41F15/18 B41F15/26 B41F17/00 B41F17/14 B41F21/00 B41M1/12  
 B65G37/00 B65H5/00 G05D3/00 G06F17/50 H01L21/67 H05K13/00  
 H05K13/02 H05K3/00 H05K3/12 H05K3/24 H05K3/30 H05K3/34  
**CPC:** B65G37/00 H05K13/0061 H05K3/1216 H05K3/30 Y10T29/49126  
 Y10T29/4913 Y10T29/5313 Y10T29/53174 Y10T29/53187  
**US:** 1/1 101/114 101/115 101/123 101/126 101/129 198/346.2  
 198/369.1 198/463.3 198/586 29/729 29/729S 29/739 29/739S  
 29/742 29/742S 29/830 29/832 700/100 700/100P 700/112  
 700/112S 700/114 700/121 700/121S



#### Family:

| Publication number     | Publication date | Application number   | Application date |
|------------------------|------------------|----------------------|------------------|
| BRPI0921985 A2         | 20180605         | BR2009PI21985        | 20091112         |
| CA2744321 AA           | 20100527         | CA20092744321        | 20091112         |
| <b>CA2744321 C</b>     | <b>20151222</b>  | <b>CA20092744321</b> | <b>20091112</b>  |
| CN102281959 A          | 20111214         | CN200980154758       | 20091112         |
| CN102281959 B          | 20141001         | CN200980154758       | 20091112         |
| CN104302161 A          | 20150121         | CN201410421039       | 20091112         |
| CN104302161 B          | 20180209         | CN201410421039       | 20091112         |
| <b>EP2364225 A1</b>    | <b>20110914</b>  | <b>EP20090828036</b> | <b>20091112</b>  |
| EP2364225 A4           | 20130403         | EP20090828036        | 20091112         |
| <b>EP2364225 B1</b>    | <b>20190306</b>  | <b>EP20090828036</b> | <b>20091112</b>  |
| IN03770DN2011 A        | 20120406         | IN2011DN03770        | 20110519         |
| JP2012509598 T2        | 20120419         | JP20110537504T       | 20091112         |
| JP2015035615 A2        | 20150219         | JP20140207460        | 20141008         |
| KR101652924 B1         | 20160909         | KR20117012180        | 20091112         |
| KR20110086715 A        | 20110729         | KR20117012180        | 20091112         |
| MX2011005315 A1        | 20110808         | MX20110005315        | 20091112         |
| <b>US2010122635 AA</b> | <b>20100520</b>  | <b>US20090608759</b> | <b>20091029</b>  |
| <b>US8555784 BB</b>    | <b>20131015</b>  | <b>US20090608759</b> | <b>20091029</b>  |
| <b>US2010122633 AA</b> | <b>20100520</b>  | <b>US20090608768</b> | <b>20091029</b>  |
| <b>US8555783 BB</b>    | <b>20131015</b>  | <b>US20090608768</b> | <b>20091029</b>  |
| <b>US2010122634 AA</b> | <b>20100520</b>  | <b>US20090608776</b> | <b>20091029</b>  |
| <b>US8413577 BB</b>    | <b>20130409</b>  | <b>US20090608776</b> | <b>20091029</b>  |
| <b>US2010122636 AA</b> | <b>20100520</b>  | <b>US20090608783</b> | <b>20091029</b>  |
| <b>US8413578 BB</b>    | <b>20130409</b>  | <b>US20090608783</b> | <b>20091029</b>  |
| <b>US2010125357 AA</b> | <b>20100520</b>  | <b>US20090608787</b> | <b>20091029</b>  |
| <b>US2010125359 AA</b> | <b>20100520</b>  | <b>US20090608793</b> | <b>20091029</b>  |
| <b>US8613134 BB</b>    | <b>20131224</b>  | <b>US20090608793</b> | <b>20091029</b>  |
| <b>US2013180829 AA</b> | <b>20130718</b>  | <b>US20130788969</b> | <b>20130307</b>  |
| <b>US8939076 BB</b>    | <b>20150127</b>  | <b>US20130788969</b> | <b>20130307</b>  |
| <b>US2013333206 AA</b> | <b>20131219</b>  | <b>US20130968762</b> | <b>20130816</b>  |
| <b>US9345147 BB</b>    | <b>20160517</b>  | <b>US20130968762</b> | <b>20130816</b>  |
| <b>WO10059486 A1</b>   | <b>20100527</b>  | <b>WO2009US64094</b> | <b>20091112</b>  |

#### Priority:

|                         |                         |                         |
|-------------------------|-------------------------|-------------------------|
| US20080115954P 20081119 | US20090144651P 20090114 | US20090176797P 20090508 |
| US20090176813P 20090508 | US20090176810P 20090508 | US20090176804P 20090508 |
| US20090176803P 20090508 | US20090176801P 20090508 | US20090608759 20091029  |
| US20090608768 20091029  | US20090608776 20091029  | US20090608783 20091029  |
| US20090608787 20091029  | US20090608793 20091029  | WO2009US64094 20091112  |
| CN200980154758 20091112 | JP20110537504 20091112  | JP20110537504T 20091112 |
| US20130788969 20130307  | US20130968762 20130816  |                         |

**Probable Assignee:** ILLINOIS TOOL WORKS INC

**Assignee(s):** (std): DOYLE DENNIS G ; ILLINOIS TOOL WORKS

**Assignee(s):** ILLINOIS TOOL WORKS INC ; ILLINOIS TOOL WORKS INC ITW ; ILLINOIS TOOLS WORKS INC

**Inventor(s):** (std): DENNIS G DOYLE ; DOYLE DENNIS G

**Agent(s):** AOKI ATSUSHI ; FINLAYSON AND SINGLEHURST; HAUPTMAN BENJAMIN J; HGF LTD; LANDO AND ANASTASI LLP; SHIMADA TETSURO; SMEE ANTHONY JAMES MICHAEL

**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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**62) Family number: 57413698** (US2014262047 AA)

© PatBase

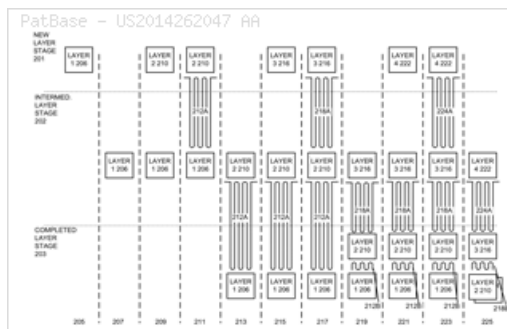
**Title:** SYSTEMS FOR THREE-DIMENSIONAL WEAVING OF COMPOSITE PREFORMS AND PRODUCTS WITH VARYING CROSS-SECTIONAL TOPOLOGY

**Abstract:** A system fabricating composite preforms includes a layer assembly stage with a first stage for receiving new layers, such as layer N; and a second stage for holding up to K layers, such as layers N-1 to N-K. An interlayer reinforcement insertion mechanism inserts interlayer reinforcements Q through layer N and the layers N-1 to N-K, using a first layer spacing between layer N-K and layer N-K-1 in a completed layer stage. Following the interlayer reinforcements Q insertion, the layer assembly stage transfers the layer N-K to the completed layer stage; closes the first layer spacing, bringing layers N-K and N-K-1 into contact; and transfers the layer N to the second stage. The system repeats this cycle of receiving new layers, inserting interlayer reinforcements using layer spacings between the second and completed layer stages, closing these layer spacings, and transferring layers to construct composite preforms with arbitrary numbers of layers.

#### Classifications:

**International (IPC 8-9):** B29B11/00 B29B11/04 B29B11/16

B29C64/00 B29C64/141 B29C64/147 B29C65/00 B29C65/62  
 B29C67/00 B29C70/00 B29C70/02 B29C70/08 B29C70/10  
 B29C70/24 B29C70/30 B29C70/54 B29K105/08 B29K29/00  
 B29K307/04 B32B37/02 B32B5/26 B32B7/08 B33Y10/00 B33Y30/00  
 D03D1/00  
**CPC:** B29B11/16 B29C64/141 B29C64/147 B29C65/62 B29C70/24  
 B29C70/30 B29C70/543 B29C70/545 B29K2029/04 B29K2105/089  
 B29K2307/04 B33Y10/00 B33Y30/00 Y10T156/1074 Y10T156/1075  
 Y10T156/1093 Y10T156/13 Y10T156/1322  
**US:** 1/1 156/148 156/393 264/258



# Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP2969538 A1       | 20160120         | EP20140765732      | 20140317         |
| EP2969538 A4       | 20161109         | EP20140765732      | 20140317         |
| EP2969538 B1       | 20191030         | EP20140765732      | 20140317         |
| JP2016522757 T2    | 20160804         | JP20160503408T     | 20140317         |
| JP6286022 B2       | 20180228         | JP20160503408T     | 20140317         |
| US2014265020 AA    | 20140918         | US20140216406      | 20140317         |
| US9381702 BB       | 20160705         | US20140216406      | 20140317         |
| US2014262047 AA    | 20140918         | US20140216472      | 20140317         |
| US9527248 BB       | 20161227         | US20140216472      | 20140317         |
| US10239235 BB      | 20190326         | US20160346701      | 20161108         |
| US2017050340 AA    | 20170223         | US20160346701      | 20161108         |
| WO14145675 A1      | 20140918         | WO2014US30480      | 20140317         |

## Priority:

US20130788493P 20130315 WO2014US30480 20140317 US20140216472 20140317  
 US20140216406 20140317 US20160346701 20161108

**Probable Assignee:** SERIFORGE INC

**Assignee(s):** (std): HOLLANDER JONATHAN MARC ; SERIFORGE INC

**Assignee(s):** VENTURE LENDING AND LEASING VII INC ; VENTURE LENDING AND LEASING VIII INC

**Inventor(s):** (std): HOLLANDER JONATHAN MARC

**Agent(s):** D YOUNG AND CO LLP; DESHIMARU TAKESHI; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; NISHIJIMA TAKAKI; TRELLIS IP LAW GROUP PC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

## 63) Family number: 8013910 (DE3931176 A1)

© PatBase

**Title:** AUTOMATIC OPENING ARRANGEMENT ESP. FOR BANKNOTE CONTAINER - HAS OPENING TOOL MOVABLE PERPENDICULARLY TO GRIPPING PLANE BETWEEN GRIPPING DEVICES

**Abstract:** An automatic container opening arrangement has gripping sections on at least two sides not connected to the interior of the container and a desired opening section between the gripping sections. At least two gripping devices (64, 66, 68) are arranged at a distance in a common gripping plane. An opening tool (172) moves between the gripping devices and perpendicularly w.r.t. the gripping plane. A gripping device has two gripping pins (66, 68) rigidly mounted on a plate (64).  
**USE/ADVANTAGE** - Automatically opening one-time security containers, e.g. for carrying banknotes to bank. Saves time and storage space.

## Classifications:

**International (IPC 8-9):** B65B69/00 G07D11/00

**International (IPC 1-7):** B43M7/00 B65B69/00 B65D17/28  
 B65D55/02 B67B7/00 B67C9/00

**CPC:** B65B69/00 G07D11/12 G07D11/13 G07D11/165

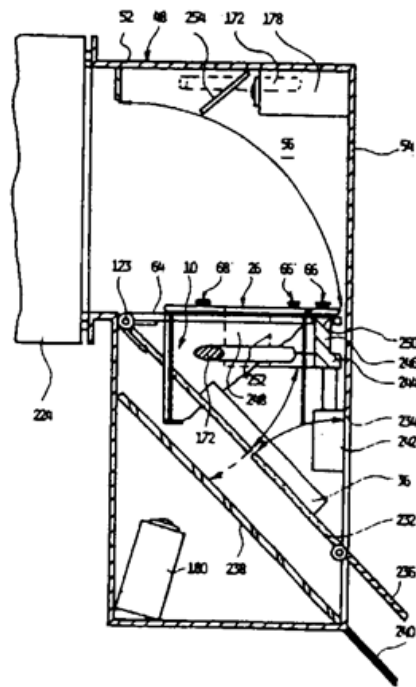


Fig. 10

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE3931176 A1       | 19910328         | DE19893931176      | 19890919         |
| DE3931176 C2       | 19940414         | DE19893931176      | 19890919         |

**Priority:**

DE19893931176 19890919

**Probable Assignee:** LORENZ JOERG K**Assignee(s):** (std): LORENZ JOERG K**Assignee(s):** LORENZ JOERG K 7302 OSTFILDERN DE ; LORENZ JOERG K 73760 OSTFILDERN DE**Inventor(s):** (std): LORENZ JOERG K**64) Family number: 62058443 (AT516345 A2)**

© PatBase

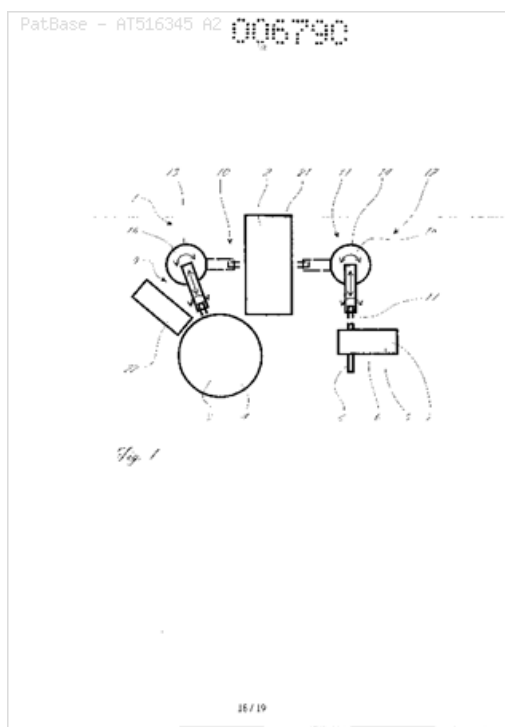
**Title:** FREE DIE FORGING PLANT AND OPEN DIE FORGING METHOD (Machine translation)

**Abstract:** Source: AT516345 A2 **Machine translation:** At the time for the passage of a Werkstuecks minimize at a Freiformschmiede plant or in a free-form forging process, carried out the removal of Werkstuecks from a furnace and its alignment in a forge position by a task robot that gives the workpiece a hammer forge, and the dissemination and orientation of Werkstuecks after forging by a unloading, which orients the workpiece to a finishing machine according passes.

**Classifications:****International (IPC 8-9):** B21J13/10 B21J7/02 B21J9/00 B21K27/00

B23Q41/00 B23Q7/00

**CPC:** B21J13/10 B21J7/02



# Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT516345 A2        | 20160415         | AT20150000609      | 20150917         |
| AT516345 A3        | 20190815         | AT20150000609      | 20150917         |
| AT516345 B1        | 20190815         | AT20150000609      | 20150917         |
| DE102014014404 A1  | 20160407         | DE201410014404     | 20141002         |
| DE102014014404 B4  | 20191219         | DE201410014404     | 20141002         |
| ITUB20153833 A1    | 20170323         | IT2015UB03833      | 20150923         |

# Priority:

DE201410014404 20141002

**Probable Assignee:** SMS MEER GMBH

**Assignee(s):** (std): SMS GROUP GMBH ; SMS MEER GMBH

**Inventor(s):** (std): HOLL ALBRECHT ; KNAUF FREDERIK ; NIESCHWITZ PAUL JOSEF ; VEST ROLF ; VOHKAEMPER ULRICH

**Inventor(s):** HOLL ALBRECHT DR ; KNAUF FREDERIK DR

**Agent(s):** REUTHER MARTIN DIPL PHYS

## 65) Family number: 63359636 (US9430893 BA)

© PatBase

**Title:** SYSTEMS, METHODS AND DEVICES FOR MANAGING REJECTED COINS DURING COIN PROCESSING

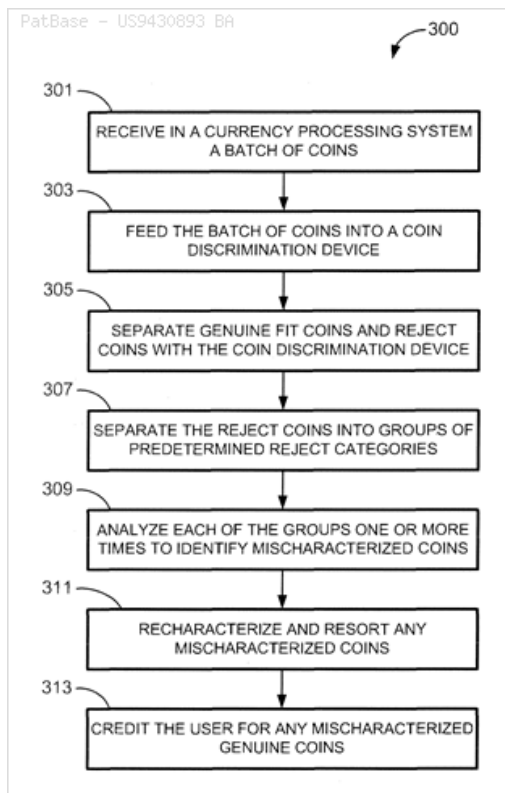
**Abstract:** Currency processing systems, coin processing machines, computer-readable storage media, and methods of managing processed coins are presented herein. A method is presented for managing coins processed by a currency processing system. The method includes: receiving a batch of coins by the currency processing system; feeding the coins into a coin processing unit which includes one or more coin discriminating sensors; sorting the batch of coins into genuine fit target coins and reject coins; sorting the reject coins into a plurality of reject groups, each of which corresponds to a respective category of rejected coins; analyzing at least one of the reject groups to determine if any genuine target coins were mischaracterized and erroneously sorted into that reject group; and, crediting a user of the currency processing system for any genuine target coins in the reject group determined to have been mischaracterized and erroneously sorted.

## Classifications:

**International (IPC 8-9):** G07D11/00 G07D3/00 G07D3/14 G07D3/16 G07D5/00 G07D7/00 G07F19/00 G07F7/04

**CPC:** G07D11/32 G07D11/50 G07D3/14 G07D3/16 G07D5/00 G07F19/202

**US:** 1/1



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US9430893 BA       | 20160830         | US20150818734      | 20150805         |
| US9633500 BA       | 20170425         | US20160219837      | 20160726         |
| US10049521 BA      | 20180814         | US20170492561      | 20170420         |

#### Priority:

US20140033936P 20140806 US20150818734 20150805 US20160219837 20160726  
US20170492561 20170420

**Probable Assignee:** CUMMINS ALLISON CORP

**Assignee(s):** (std): CUMMINS ALLISON CORP

**Inventor(s):** (std): BLAKE JOHN R ; HALLOWELL CURTIS W ; JAGIELINSKI TOMASZ M

**Agent(s):** GREER BURNS AND CRAIN LTD; NIXON PEABODY LLP

#### 66) Family number: 73506712 (US2020200393 AA)

© PatBase

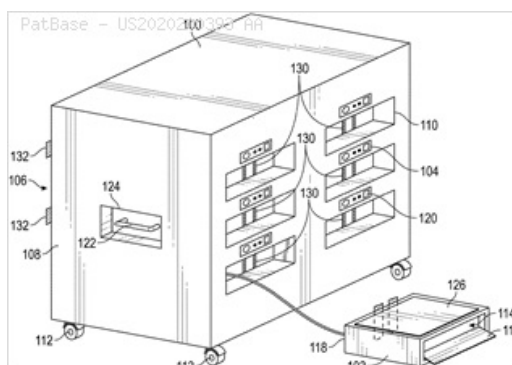
**Title:** CONFIGURABLE OVEN RACK SYSTEM

**Abstract:** An oven to facilitate heating a food item is disclosed that includes an oven box one or more upper heating elements, and one or more lower heating elements. The oven box has a floor, a ceiling spaced across a height of the oven box from the floor, and at least one side wall that extends between the floor and the ceiling to at least partially delineate an interior of the oven box from an exterior thereof. The one or more upper heating elements are spaced proximate the ceiling relative to the one or more lower heating elements. The one or more lower heating elements are spaced proximate the floor relative to the one or more upper heating elements. The one or more lower heating elements are arranged in a first pattern and the one or more upper heating elements arranged in a second pattern. The first pattern is different than the second pattern.

#### Classifications:

**International (IPC 8-9):** A21B1/22 A21B7/00 F24C15/16 F24C7/06 F24C7/08

**CPC:** A21B1/02 A21B1/52 A21B3/07 F24C15/166 F24C7/06 F24C7/062 F24C7/085 F24C7/088



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| TW201919478 A      | 20190601         | TW20180122997      | 20180703         |
| US2020200393 AA    | 20200625         | US20180639754      | 20180703         |
| WO19050615 A1      | 20190314         | WO2018US40738      | 20180703         |

#### Priority:

US20170556901P 20170911 US20170595229P 20171206 US20180685093P 20180614  
WO2018US40738 20180703 US20180639754 20180703

**Probable Assignee:** ZUME INC

**Assignee(s):** (std): GARDEN ALEXANDER JOHN ; GOEL VAIBHAV ; GOLDBERG JOSHUA GOULED ; ZUME INC

**Assignee(s):** ZUME PIZZA INC

**Inventor(s):** (std): GARDEN ALEXANDER ; GARDEN ALEXANDER JOHN ; GOEL VAIBHAV ; GOLDBERG JOSHUA ; GOLDBERG JOSHUA GOULED

**Agent(s):** ABRAMONTE FRANK ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

**67) Family number: 76793737 (WO20243823 A2)**

© PatBase

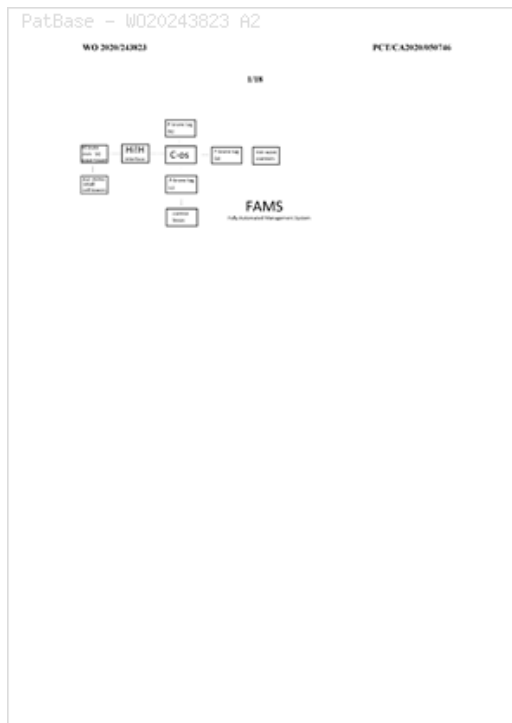
**Title:** A PROCESS FOR A FULLY AUTOMATED MANAGEMENT SYSTEM (FAMS) TOWARDS RESOURCE AND SYSTEM PROTECTION AND OPTIMIZATION IN A MANUFACTURING PROCESS.

**Abstract:** The invention provides improved automated devices by using digital micro controllers to communicate via millimetre wave transmissions on a 5G architecture creating a control system that better addresses low latency ultimately creating more accurate closed loop systems. The architecture consist of a virtual enterprise network named "FAMS" Fully Automated Management System, a universal interface named "Hi!H" that interacts with all devices in the control system, in which all devices in the control systems will be linked via mm wave wireless micro controller chip, and a novel firewall approach using block chain encryption that gets constantly updated and monitored to create the safest user experience possible.

**Classifications:**

**International (IPC 8-9):** A23L2/00 A23L3/00 C12M1/34 G05B19/042 G06F15/00 G06F16/27 G06F21/62 H04B1/59 H04B7/0413 H04L12/22 H04L12/24 H04L9/06 H04R1/10 H04W12/02 H04W16/24 H04W4/02 H04W76/14 H04W8/16

**CPC:** A23L3/00 G05B19/4185 G06F15/00 G06F16/27 G06F2207/4814 G06F30/00 G06F7/5443 G06N3/02 G06T5/50 H04B7/0413 H04L12/22 H04L2209/38 H04L2209/56 H04L63/00 H04L67/00 H04L9/32 H04R1/10 H04W12/02 H04W16/24 H04W4/00 H04W4/02 H04W76/14 H04W8/16 Y02A40/924



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA3042356 AA       | 20191107         | CA20193042356      | 20190506         |
| WO20243823 A2      | 20201210         | WO2020CA50746      | 20200531         |
| WO20243823 A9      | 20210128         | WO2020CA50746      | 20200531         |

**Priority:**

US20180667626P 20180507 US20190844092P 20190506 CA20193042356 20190506

**Probable Assignee:** MARSHALL JASON

**Assignee(s):** (std): MARSHALL JASON

**Inventor(s):** (std): MARSHALL JASON

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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 WS ZA ZM ZW

**68) Family number: 45002096 (US2010125026 AA)**

© PatBase

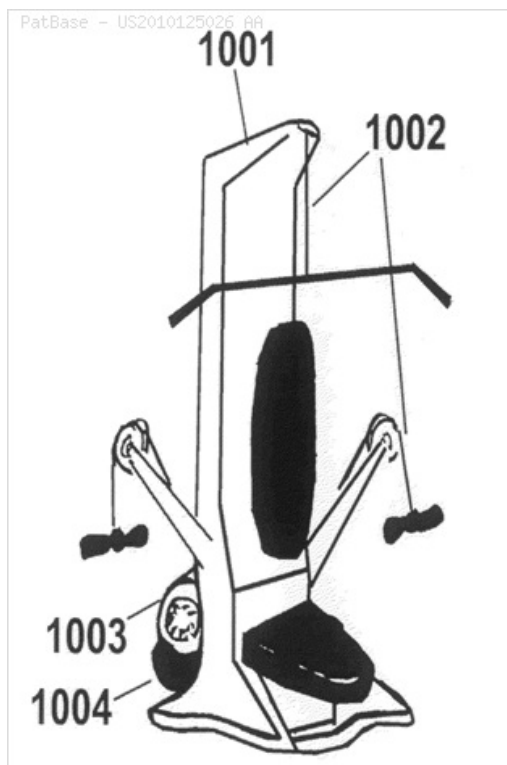
**Title:** WIRELESS GAME CONTROLLER FOR STRENGTH TRAINING AND PHYSIOTHERAPY

**Abstract:** Wireless game controller can provide variable resistance during strength training exercise and is coupled with off

the shelf video gaming system such as Nintendo WII or personal computer by bluetooth or WiFi connection. The resistance is provided by a motor/generator. Electrical recuperation occurs between eccentric and concentric steps of the exercise, electrical energy is stored in a super capacitor between the steps. Video gaming system is configurable to run exercise software that provide reinforcing game experience, coaching, and physical therapy to the user. Exercise software tracks user's pose using fiduciary marks on the controller and data from 3d accelerometer embedded in the controller. The resistance is computed as a function of one or more the following: exercise type, position, velocity, user profile, and repetition number.

#### Classifications:

**International (IPC 8-9):** A63B21/005 A63B71/00 A63F9/24  
**CPC:** A63B21/00 A63B21/00058 A63B21/005 A63B21/0053  
A63B21/0054 A63B21/008 A63B2220/10 A63B2220/17 A63B2220/30  
A63B2225/50 A63B24/0075 A63B71/0622 A63F13/06 A63F13/235  
A63F13/245 A63F13/80 A63F2300/1062 A63F2300/69  
A63F2300/8017 A63F9/24 Y10S482/901  
**US:** 434/247 463/30 482/1 482/5 482/5P 482/8 482/901



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2010125026 AA    | 20100520         | US20090618680      | 20091113         |
| US7967728 BB       | 20110628         | US20090618680      | 20091113         |
| US2011251021 AA    | 20111013         | US20110111869      | 20110519         |
| US8287434 BB       | 20121016         | US20110111869      | 20110519         |
| US2013065680 AA    | 20130314         | US20120620508      | 20120914         |

#### Priority:

US20080115082P 20081116 US20090618680 20091113 US20100346865P 20100520  
US20110111869 20110519 US20120620508 20120914

**Probable Assignee:** TONAL SYSTEMS INC

**Assignee(s):** (std): SHERSTYUK MYKOLA ; ZAVADSKY VYACHESLAV

**Assignee(s):** JACK POLYMATH LLC ; TONAL SYSTEMS INC

**Inventor(s):** (std): SHERSTYUK MYKOLA ; ZAVADSKY VYACHESLAV

**Agent(s):** VYACHESLAV ZAVADSKY

#### 69) Family number: 66164283 (US2017251589 AA)

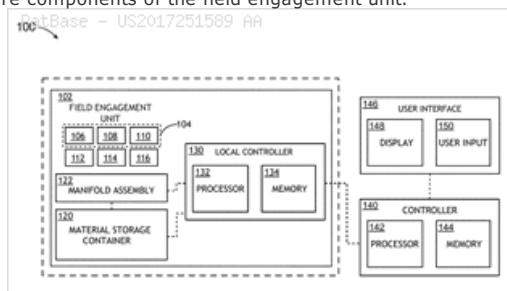
© PatBase

**Title:** AUTONOMOUS INTEGRATED FARMING SYSTEM

**Abstract:** A farming system includes a field engagement unit. The field engagement unit includes a support assembly. The support assembly includes one or more work tool rail assemblies. The field engagement unit additionally includes one or more propulsion units which provide omnidirectional control of the field engagement unit. The field engagement unit additionally includes one or more work tool assemblies. The one or more work tool assemblies are actuatable along the one or more work tool rail assemblies. The farming system additionally includes a local controller. The local controller includes one or more processors configured to execute a set of program instructions stored in memory. The program instructions are configured to cause the one or more processors to control one or more components of the field engagement unit.

#### Classifications:

**International (IPC 8-9):** A01B3/50 A01B35/32 A01B39/06 A01B5/16  
A01B51/02 A01B69/00 A01B69/04 A01B71/02 A01B76/00  
A01B79/02 A01C21/00 A01G1/00 A01G22/00 A01G25/09 A01K11/00  
A01K29/00 A01M7/00 B60L13/00 B60L9/00 G06N20/20  
**CPC:** A01B3/50 A01B35/32 A01B39/06 A01B5/16 A01B51/02  
A01B69/00 A01B69/008 A01B71/02 A01B76/00 A01B79/02  
A01C21/005 A01G22/00 A01G25/09 A01B51/023 A01B73/005  
A01B73/02 A01C7/208 A01G25/092 A01M21/02 A01M21/04  
A01M7/0082 A01M7/0089 B25J11/00 B62D55/065 B62D55/084  
B62D55/0847 B62D55/10 B62D55/30 A01K5/0266 Y02A40/28  
A01K11/008 A01K29/005 G06N20/20 G06Q50/02  
**US:** 1/1 701/23



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
|--------------------|------------------|--------------------|------------------|

|                        |          |                |          |
|------------------------|----------|----------------|----------|
| <b>AU2016369655 AA</b> | 20180802 | AU20160369655  | 20161219 |
| <b>CA3029134 AA</b>    | 20190107 | CA20163029134  | 20161219 |
| CN109068572 A          | 20181221 | CN201680080407 | 20161219 |
| <b>EP3389351 A1</b>    | 20181024 | EP20160876939  | 20161219 |
| EP3389351 A4           | 20191204 | EP20160876939  | 20161219 |
| EP3764764 A1           | 20210120 | EP20190789432  | 20190422 |
| <b>US10149422 BB</b>   | 20181211 | US20160384132  | 20161219 |
| <b>US2017251589 AA</b> | 20170907 | US20160384132  | 20161219 |
| <b>US10721857 BB</b>   | 20200728 | US20180215008  | 20181210 |
| <b>US2019274241 AA</b> | 20190912 | US20180215008  | 20181210 |
| US2019289826 AA        | 20190926 | US20190390736  | 20190422 |
| <b>WO17106874 A1</b>   | 20170622 | WO2016US67625  | 20161219 |
| WO19204814 A1          | 20191024 | WO2019US28552  | 20190422 |

**Priority:**

|                         |                         |                         |
|-------------------------|-------------------------|-------------------------|
| US20150269770P 20151218 | US20150269800P 20151218 | US20160319861P 20160408 |
| US20160335260P 20160512 | US20160368080P 20160728 | US20160384132 20161219  |
| WO2016US67625 20161219  | US20180660844P 20180420 | US20180215008 20181210  |
| WO2019US28552 20190422  | US20190390736 20190422  |                         |

**Probable Assignee:** INTELLIFARM INC

**Assignee(s):** (std): INTELLIFARM INC ; REALFIVE INC

**Assignee(s):** ADKINS TIM ; BURKEY BRANT ; GERBER KYLE ; ROEHR HEATH ; TIPPERY STEVE R

**Inventor(s):** (std): ADKINS TIM ; BURKEY BRANT ; GERBER KYLE ; ROEHR HEATH ; TIPPERY STEVE ; TIPPERY STEVE R

**Agent(s):** ALGEMEEN OCTROOI EN MERKENBUREAU BV; ARGON IP PTY LTD; BENNETT JONES LLP; COOPER IP PTY LTD; POULSEN MATTHEW A; SUITER SWANTZ PC LLO; SWINDELL AND PEARSON LTD

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

**70) Family number: 1712726** (DE2154396 A1)

© PatBase

**Title:** Threshing (Machine translation)

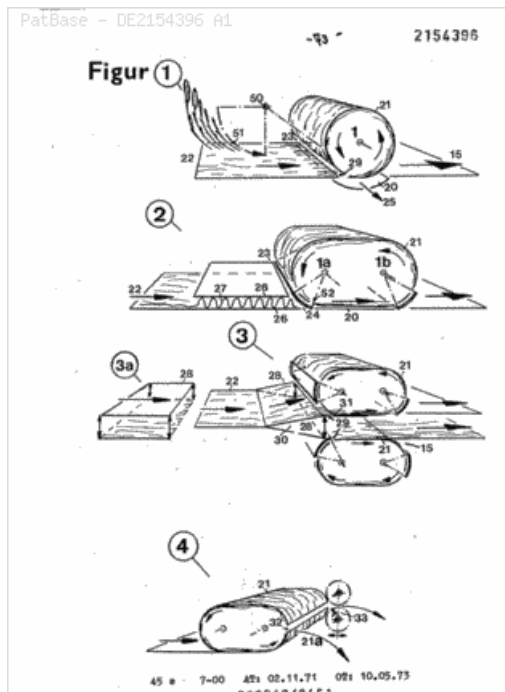
**Abstract:** Source: DE2154396 A1 **Machine translation:** Bound PatentanssprUche 9 procedures for dissolving and separating kernels from threshed crop with intermittent tangential winding a train-and discharge-cycle system, and axially by applying the basic application feature, with an on koernerloesendem axially stationed Kernwickelkoerper rotating Dreschgutwicklung, wherein the continuously accumulating and fed in Dreschgutschleier ninzugsbereich (22, FIG

**Classifications:**

**International (IPC 8-9):** A01F12/18

**International (IPC 1-7):** A01F7/00

**CPC:** A01F12/18



**Family:**

| Publication number  | Publication date | Application number | Application date |
|---------------------|------------------|--------------------|------------------|
| <b>DE2154396 A1</b> | 19730510         | DE19712154396      | 19711102         |

**Priority:**

DE19712154396 19711102

**Probable Assignee:** POPP EUGEN

**Assignee(s):** (std): POPP EUGEN

**Assignee(s):** POPP EUGEN 7141 HEUTINGSHEIM

**Inventor(s):** (std): POPP EUGEN

**Inventor(s):**

POPP EUGEN 7141 HEUTINGSHEIM