

13 Documents

Publication numbers	Title	Current assignees
CA2986542 A1	Pump system and method for acoustically estimating liquid delivery	DEKA PRODUCTS
US20110313789 A1	System, method, and apparatus for clamping	DEKA PRODUCTS
WO201401558 A1	Inventory monitoring system and method	FULFIL
US20160247116 A1	Method and apparatus for warehouse cycle counting using a drone	BUZAKI MICHAEL, ...
WO2014160491 A2	Automatic sensing methods and devices for inventory control	T INK
US9859918 B1	Techniques to verify and authenticate resources in a data center computer environment	INTEL
US20180060764 A1	Autonomous shuffling of pallets of items in a warehouse	X DEVELOPMENT
US20170309152 A1	Smart safety apparatus, system and method	UCHARDCHIP
US20160260302 A1	Self-detaching anti-theft device for retail environment	TYCO FIRE & SECURITY
US20120085291 A1	Rodent containment cage monitoring apparatus and methods	INNOVIVE
WO2013157851 A1	Medicine dispensing system and control method thereof	JVM
US20160107312 A1	Automated data center	EMBARQ
WO200828804 A2	Selective encryption of data stored on removable media in an automated data storage library	IBM

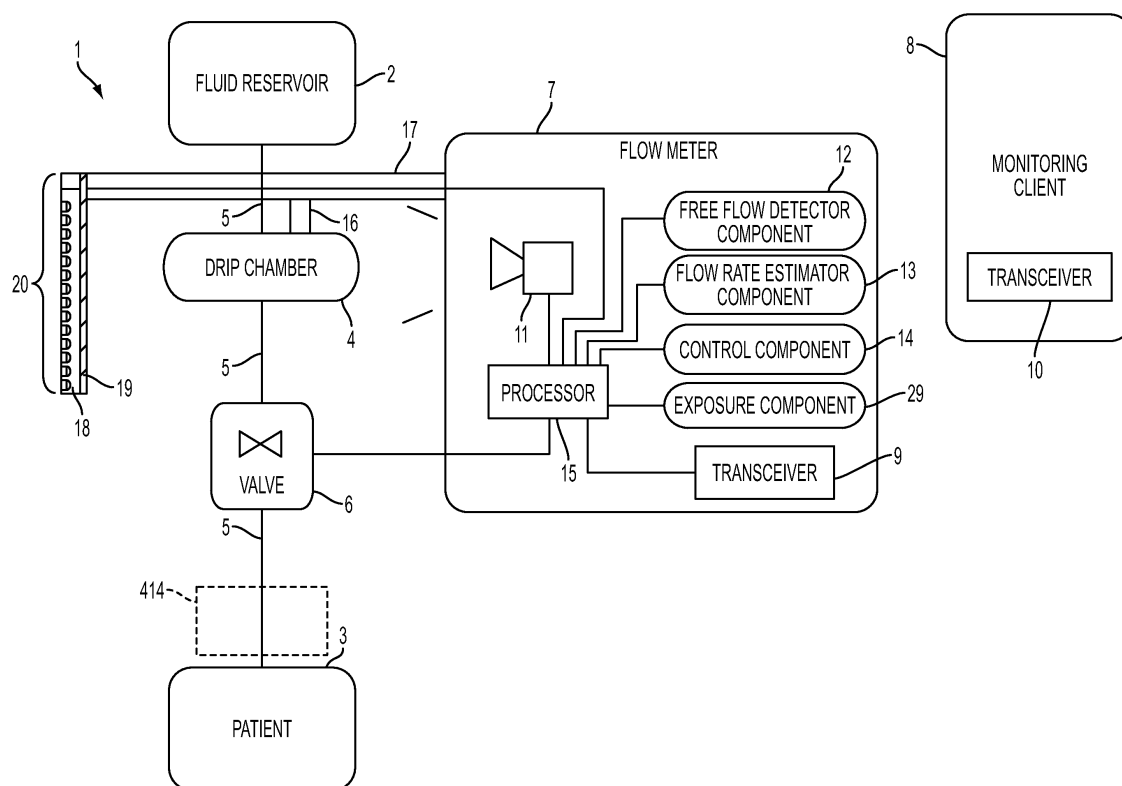
Family 1/13 - FAMPAT - ©Questel

Title

(EP3222308)

Pump system and method for acoustically estimating liquid delivery

Images



Publication data including kind & date

CA2986542	A1	2013-06-27	CA2986542
CA2860224	A1	2013-06-27	CA2860224
CA2860156	A1	2013-06-27	CA2860156
CA2859828	A1	2013-06-27	CA2859828
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WO2013096722	A2	2013-06-27	WO201396722
WO2013096718	A2	2013-06-27	WO201396718
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WO2013096718	A3	2013-08-15	WO201396718
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CA2874276	A1	2013-11-28	CA2874276
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AU2018200015	B2	2018-02-22	AU2018200015				
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US2018066648	A1	2018-03-08	US20180066648				
AU2018201407	A1	2018-03-15	AU2018201407				
AU2018201251	A1	2018-03-15	AU2018201251				
NZ735908	A	2018-03-23	NZ-735908				
JP6306108	B2	2018-04-04	JP6306108				
JP6306648	B2	2018-04-04	JP6306648				
US20180106246	A1	2018-04-19	US20180106246				

Abstract

(EP3222308)

A pump, related system, and related method are provided. The pump includes a reservoir, a port, and a plunger. The reservoir delivers a liquid by discharging the liquid through the port coupled to the reservoir. The plunger has a piston coupled to a shaft and is disposed within the reservoir in sliding engagement with an inner surface of the reservoir. The piston defines a liquid side of the reservoir and a non-liquid side of the reservoir whereby movement of the plunger towards the liquid side of the reservoir discharges liquid through the port. The pump also includes a reference-volume assembly and/or a linear position sensor. The reference-volume assembly is coupled to the reservoir at an opposite end of the reservoir relative to the port and includes a reference-volume chamber in acoustic communication with the non-liquid side of the reservoir, a speaker disposed within the reference-volume chamber, and a reference microphone disposed within the reference-volume chamber. The reference-volume assembly and/or linear position sensor may be used to estimate the amount of liquid discharged from the reservoir.

Inventors

KAMEN DEAN

KERWIN JOHN M

MURPHY COLIN H

Latest standardized assignees - inventors removed

DEKA PRODUCTS

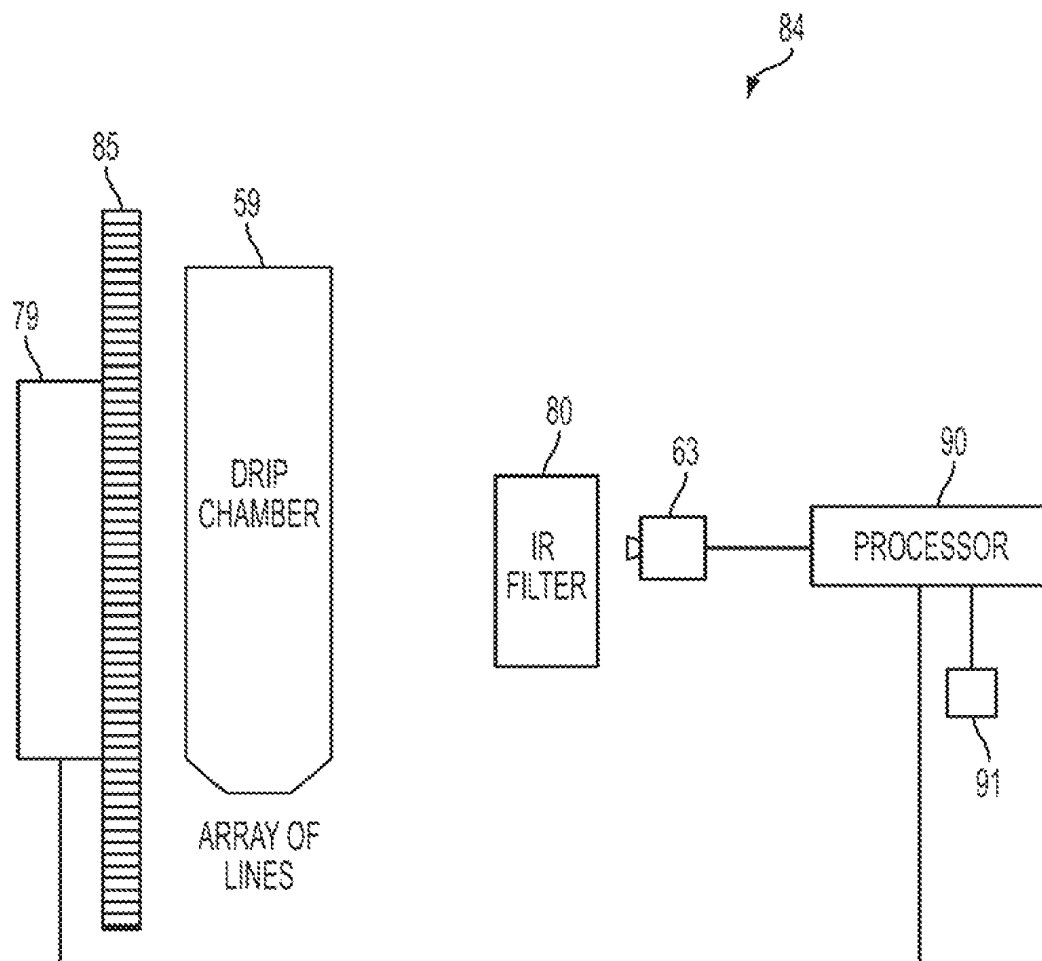
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Title

(US9759369)

System, method, and apparatus for clamping

Images



Publication data including kind & date

US20111313789	A1	2011-12-22	US201110313789				
US2012185267	A1	2012-07-19	US20120185267				
US2013177455	A1	2013-07-11	US20130177455				
US2013184676	A1	2013-07-18	US20130184676				
US2013182381	A1	2013-07-18	US20130182381				
US2013191513	A1	2013-07-25	US20130191513				
US2013188040	A1	2013-07-25	US20130188040				
US2013197693	A1	2013-08-01	US20130197693				
US2013204188	A1	2013-08-08	US20130204188				
US2013297330	A1	2013-11-07	US20130297330				
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US9636455	B2	2017-05-02	US9636455				
US9677555	B2	2017-06-13	US9677555				
US9759369	B2	2017-09-12	US9759369				

Abstract

(US9759369)

A clamp includes a housing, a fixed gripper, a moveable gripper, a driven member, and an actuator. The housing includes first and second tracks. The fixed gripper is coupled to the housing. The driven member is configured to slide within the first and second tracks of the housing. The moveable gripper is operatively coupled to the driven member. The actuator is configured to move the driven member towards a first position to thereby move the moveable gripper towards the fixed gripper. The actuator is further configured to move the driven member towards a second position to thereby move the moveable gripper away from the fixed gripper.

Inventors

GRAY LARRY B

FRIEDRICH THOMAS A

SABIN ERIK N

KERWIN JOHN M

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Latest standardized assignees - inventors removed

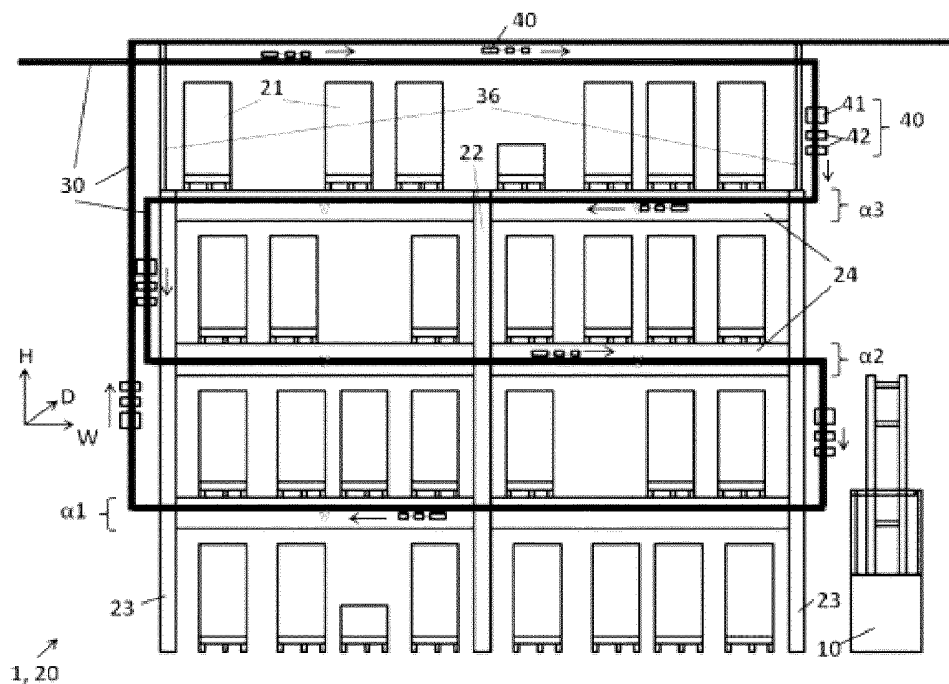
DEKA PRODUCTS

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Title

(EP2867147)

Inventory monitoring system and method

Images**Publication data including kind & date**[WO2014001558](#)

A1 2014-01-03

WO201401558

[EP2867147](#)

A1 2015-05-06

EP2867147

[US2015178673](#)

A1 2015-06-25

US20150178673

**Abstract**

(EP2867147)

An inventory monitoring system (1) and method for monitoring items stored in a pallet rack (20) are described. The inventory monitoring system comprises a pallet rack (20) comprising a plurality of construction elements (22, 23, 24) for

storing a plurality of pallets (21) and a rail system (30) mounted to the pallet rack (20) and forming at least one track for guiding at least one vehicle (40) for scanning the pallets (21), the rail system (30) being located at least partly inside a space defined by outer construction elements (23). The at least one vehicle (40) thereby is movably mountable to the rail system (30) and adapted for moving over the rail system (30), the vehicle (40) comprising detection means for detecting information of the pallets (21) which are located in the vicinity of the rail system.

Inventors

PENNEMAN THOMAS

Latest standardized assignees - inventors removed

FULFIL

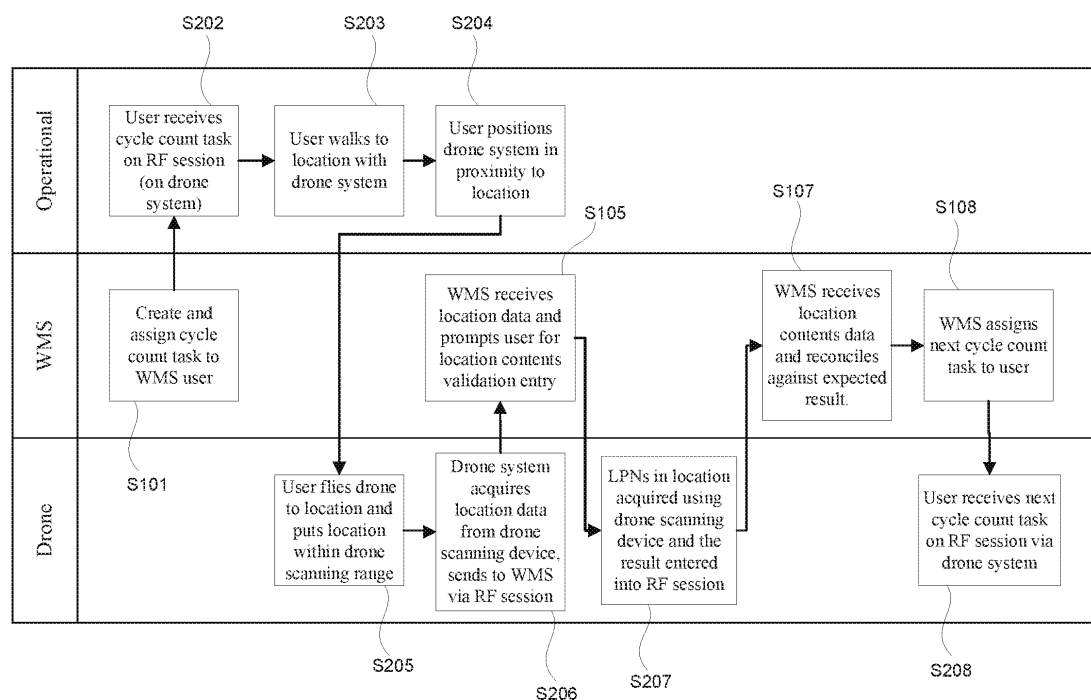
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Title

(US20160247116)

Method and apparatus for warehouse cycle counting using a drone

Images



Publication data including kind & date

US2016247116

A1 2016-08-25

US20160247116



Abstract

(US20160247116)

A method for cycle counting warehouse inventory using a drone system with a drone carrying a scanning device and a computer with an RF session receiving cycle count tasks. The drone system is placed within a flight range of the drone to a cycle count location and flown to the cycle count location of the cycle count task. The drone acquires the inventory location data and sends it to a warehouse management system through the RF session. Then the drone acquires the inventory data and sends it to a warehouse management system through the RF session. If prompted by the warehouse management system, further data are acquiring such as SKU data, LPN attribute information, and/or quantity information.

Inventors

OLIVO CRAIG

BUZAKI MICHAEL

Latest standardized assignees - inventors removed

BUZAKI MICHAEL

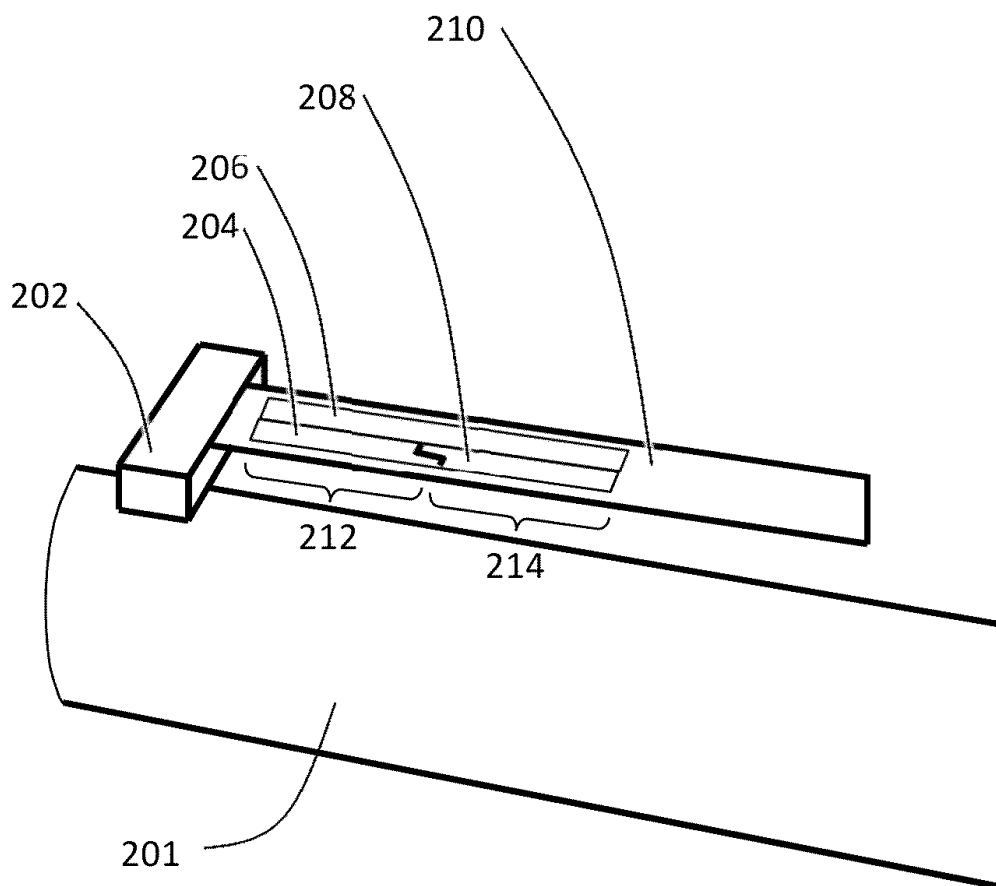
OLIVO CRAIG

Family 5/13 - FAMPAT - ©Questel

Title

(EP2973525)

Automatic sensing methods and devices for inventory control

Images**Publication data including kind & date**

WO2014160491	A2	2014-10-02	WO2014160491
WO2014160491	A3	2014-11-20	WO2014160491
US2015041616	A1	2015-02-12	US20150041616
AU2014243784	A1	2015-11-05	AU2014243784
EP2973525	A2	2016-01-20	EP2973525
CN105593921	A	2016-05-18	CN105593921
JP2016517032	A	2016-06-09	JP2016517032
EP2973525	A4	2017-06-07	EP2973525

**Abstract**

(EP2973525)

The present disclosure is generally directed to methods of tracking stocked inventory, such as products or other items stocked on a store shelf or other storage space. The system comprises a display structure with electrically conductive pegs that detect the presence and removal of objects by monitoring and measuring the current flow. The disclosure is also directed to devices and systems that may be utilized to carry out such methods.

Inventors

GENTILE JOHN

KAISERMAN TERRANCE Z

COHEN STEVE MARTIN

LAWRENCE DANIEL P

FERBER ANDREW R

GENTILE ANTHONY

Latest standardized assignees - inventors removed

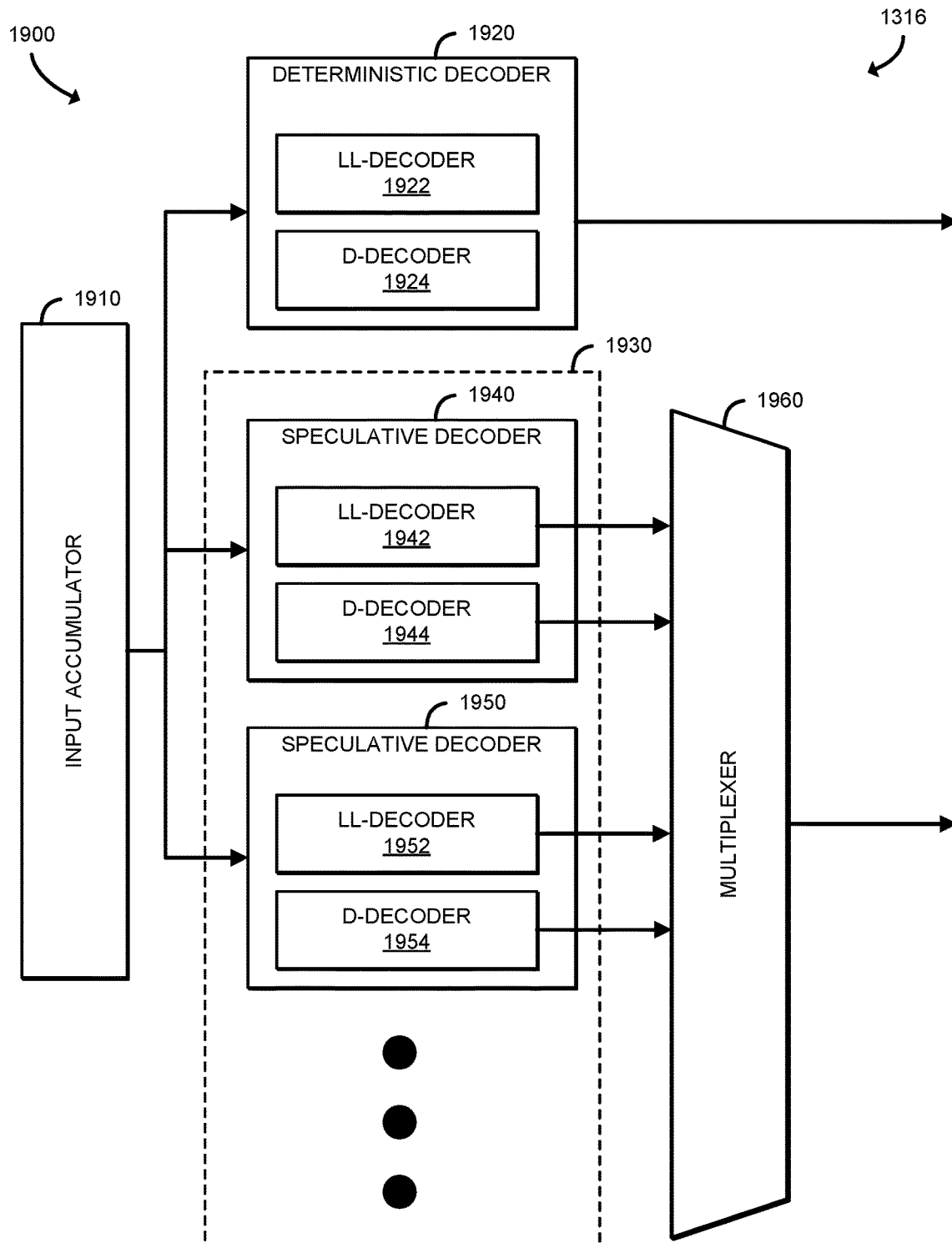
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Family 6/13 - FAMPAT - ©Questel

Title

(WO201817986)

Techniques to verify and authenticate resources in a data center computer environment

Images

Publication data including kind & date

US9859918	B1	2018-01-02	US9859918				
US2018027703	A1	2018-01-25	US20180027703				
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WO2018017281	A1	2018-01-25	WO201817281				
WO2018017274	A1	2018-01-25	WO201817274				
WO2018017277	A1	2018-01-25	WO201817277				
WO2018017283	A1	2018-01-25	WO201817283				
WO2018017275	A1	2018-01-25	WO201817275				
WO2018017271	A1	2018-01-25	WO201817271				
WO2018017268	A1	2018-01-25	WO201817268				
WO2018017273	A1	2018-01-25	WO201817273				
WO2018017269	A1	2018-01-25	WO201817269				
WO2018017266	A1	2018-01-25	WO201817266				
WO2018017264	A1	2018-01-25	WO201817264				
WO2018017261	A1	2018-01-25	WO201817261				
WO2018017265	A1	2018-01-25	WO201817265				
WO2018017263	A1	2018-01-25	WO201817263				
WO2018017249	A1	2018-01-25	WO201817249				
WO2018017257	A1	2018-01-25	WO201817257				
WO2018017259	A1	2018-01-25	WO201817259				
WO2018017260	A1	2018-01-25	WO201817260				
WO2018017252	A1	2018-01-25	WO201817252				
WO2018017256	A1	2018-01-25	WO201817256				
WO2018017258	A1	2018-01-25	WO201817258				
WO2018017255	A1	2018-01-25	WO201817255				
WO2018017253	A1	2018-01-25	WO201817253				
WO2018017254	A1	2018-01-25	WO201817254				
WO2018017250	A1	2018-01-25	WO201817250				
WO2018017247	A1	2018-01-25	WO201817247				
WO2018017248	A1	2018-01-25	WO201817248				
WO2018017243	A1	2018-01-25	WO201817243				
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WO2018017241	A1	2018-01-25	WO201817241				
WO2018017242	A1	2018-01-25	WO201817242				
WO2018017240	A1	2018-01-25	WO201817240				
WO2018017237	A1	2018-01-25	WO201817237				
WO2018017239	A1	2018-01-25	WO201817239				
WO2018017238	A1	2018-01-25	WO201817238				
WO2018017235	A1	2018-01-25	WO201817235				
WO2018017230	A1	2018-01-25	WO201817230				
WO2018017208	A1	2018-01-25	WO201817208				
WO2018014515	A1	2018-01-25	WO201814515				
US2018026655	A1	2018-01-25	US20180026655				
TW201804282	A	2018-02-01	TW201804282				
TW201810065	A	2018-03-16	TW201810065				
US9929747	B2	2018-03-27	US9929747				
US9936613	B2	2018-04-03	US9936613				

Abstract

(WO201817986)

Embodiments are generally directed apparatuses, methods, techniques and so forth to receive a sled manifest comprising identifiers for physical resources of a sled, receive results of an authentication and validation operations performed to authenticate and validate the physical resources of the sled, determine whether the results of the authentication and validation operations indicate the physical resources are authenticate or not authenticate. Further and in response to the determination that the results indicate the physical resources are authenticated, permit the physical resources to process a workload, and in response to the determination that the results indicate the physical resources are not authenticated, prevent the physical resources from processing the workload.

Inventors

MUNOZ ALBERTO J

NACHIMUTHU MURUGASAMY K

KUMAR MOHAN J

POWIERTOWSKI WOJCIECH

GHETIE SERGIU D

UPASANI NEERAJ S

DALVI SAGAR V

NNEBE CHUKWUNENYE S

GUILLORY JEANNE

Latest standardized assignees - inventors removed

INTEL

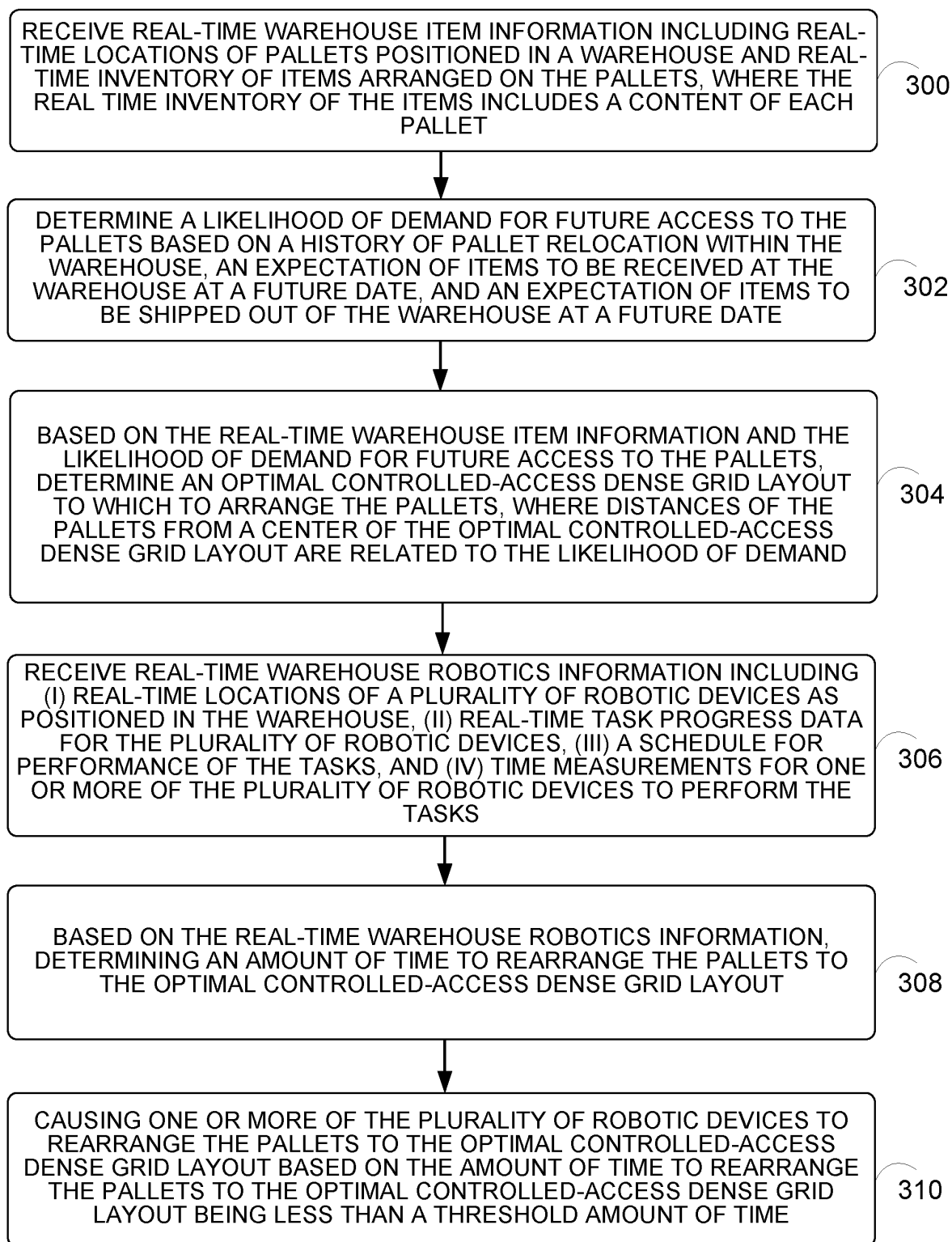
Family 7/13 - FAMPAT - ©Questel

Title

(WO201838815)

Autonomous shuffling of pallets of items in a warehouse

Images



Publication data including kind & date

US2018060764	A1	2018-03-01	US20180060764
WO2018038815	A1	2018-03-01	WO201838815



Abstract

(WO201838815)

Examples described may enable rearrangement of pallets of items in a warehouse to an optimal layout. An example method includes receiving real-time item information including pallet locations in a warehouse and real-time inventory of items arranged on the pallets; determining a likelihood of demand for future access to the pallets based on a pallet relocation history and item receiving/shipment expectations; based on the real-time item information and the likelihood of demand, determining an optimal controlled-access dense grid layout in which distances of the pallets from a center of the layout are related to the likelihood of demand; receiving real-time robotics information and using the real-time robotics information to

determine an amount of time to rearrange the pallets to the optimal layout; and, based on the amount of time to rearrange the pallets being less than a threshold, causing the robotic devices to rearrange the pallets to the optimal layout.

Inventors

HANCE CHRISTOPHER

SHAFFER DANIEL

Latest standardized assignees - inventors removed

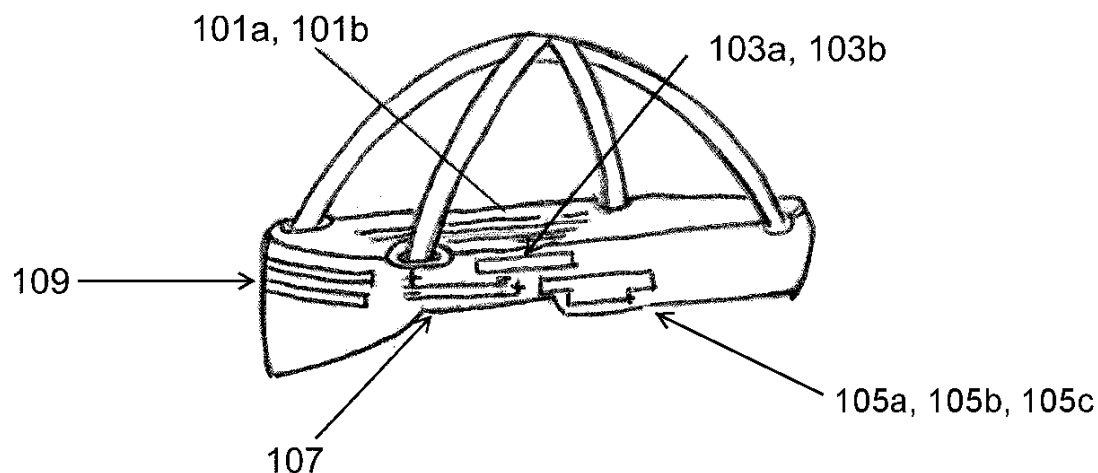
X DEVELOPMENT

Family 8/13 - FAMPAT - ©Questel

Title

(US20170309152)

Smart safety apparatus, system and method

Images**Publication data including kind & date**[US2017309152](#)

A1 2017-10-26 US20170309152

**Abstract**

(US20170309152)

The disclosed device, system, and method may comprise one or more devices for digital personal protective equipment. These devices may be network enabled wearables. A plurality of sensors, data transmission mechanisms, self-illuminating LEDs, and communication mechanisms may be embedded in a suspension or harness in various embodiments. A number of sensors may likewise be provided in a glove or earbud (ear plug). The device may measure various aspects of a wearer's movement and transmit that data over a data connection (such as a wifi or mobile connection) to a server. The server may house project and human resources data, worker and condition information, and materials and supplies data, according to various examples of embodiments. The system may further comprise one or more applications which may interpret the data provided.

Inventors

DINKINS ULYSSES C

Latest standardized assignees - inventors removed

UCHARDCHIP

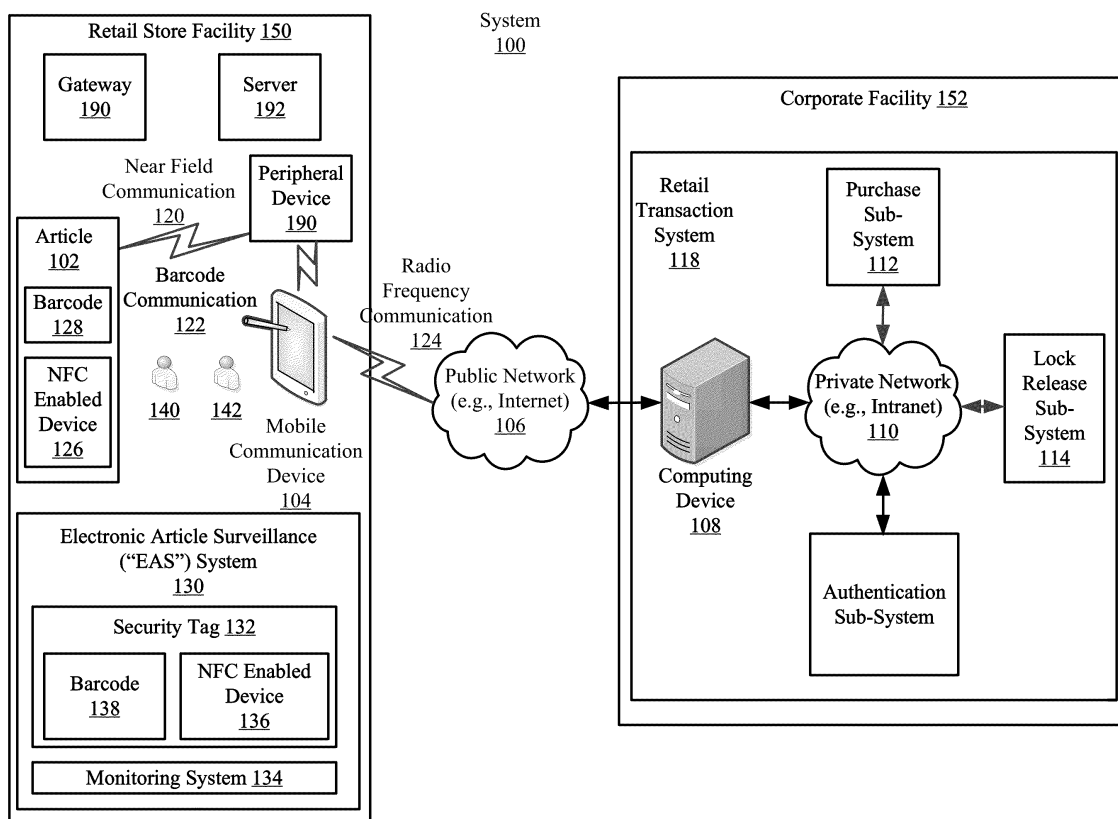
Family 9/13 - FAMPAT - ©Questel

Title

(EP3265631)

Self-detaching anti-theft device for retail environment

Images



Publication data including kind & date

US2016260302	A1	2016-09-08	US20160260302
US2016260303	A1	2016-09-08	US20160260303
WO2016141039	A1	2016-09-09	WO2016141039
EP3265631	A1	2018-01-10	EP3265631
CN107667395	A	2018-02-06	CN107667395



Abstract

(EP3265631)

Systems (100) and methods (1500) for operating a security tag. The methods involve: converting rotational motion of a pinion gear in a first direction into linear motion of a **rack** gear in a second direction so as to cause a pin to transition from an unengaged state in which the pin is retracted into a first portion of an enclosure to an engaged state in which an end of the pin resides within an aperture formed in a second portion spaced apart from the first portion of the enclosure; mechanically retaining the pin in the engaged position using a pawl that prevents movement of the pinion gear in a third direction opposed to the first direction; and automatically releasing the pawl in response to a reception of a wireless signal at the security tag, whereby the pin is returns to the unengaged state.

Inventors

ELLERS EDWARD P
STRULOVITCH TSAHI ZACK
ARDLEY WESLEY D
LOUREIRO MELISSA ANN

Latest standardized assignees - inventors removed

TYCO FIRE & SECURITY

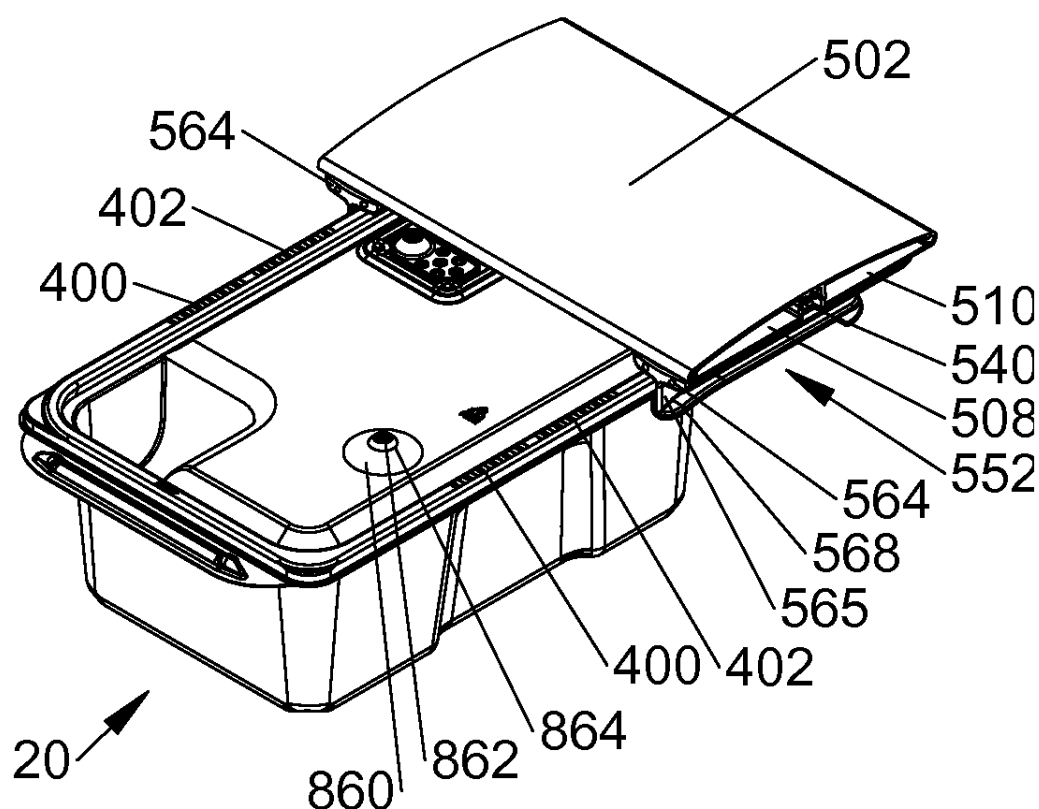
Family 10/13 - FAMPAT - ©Questel

Title

(EP2627169)

Rodent containment cage monitoring apparatus and methods

Images



Publication data including kind & date

US2012085291	A1	2012-04-12	US20120085291
CA2814085	A1	2012-04-19	CA2814085
WO2012051124	A2	2012-04-19	WO201251124
WO2012051124	A3	2012-07-12	WO201251124
EP2627169	A2	2013-08-21	EP2627169
US2013228134	A1	2013-09-05	US20130228134
JP2013539657	A	2013-10-28	JP2013539657
US2013284109	A1	2013-10-31	US20130284109
US2014123906	A1	2014-05-08	US20140123906
JP5952287	B2	2016-07-13	JP5952287
US9516858	B2	2016-12-13	US9516858
US9516857	B2	2016-12-13	US9516857
EP2627169	A4	2017-12-27	EP2627169



Abstract

(EP2627169)

Methods, apparatuses and systems for convenient management of animals within a rodent containment cage system that includes labeling components, receiving data, associating the data, reporting the data and/or associations and locating components within the cage system. The management of the system may be self-contained, networked through a controller, local server and/or main server.

Inventors

CONGER DEE L

SPIVEY CORY

ROES MICHAEL A

MCGUFFIE FRANCESCA

JENSON LEROY

Latest standardized assignees - inventors removed

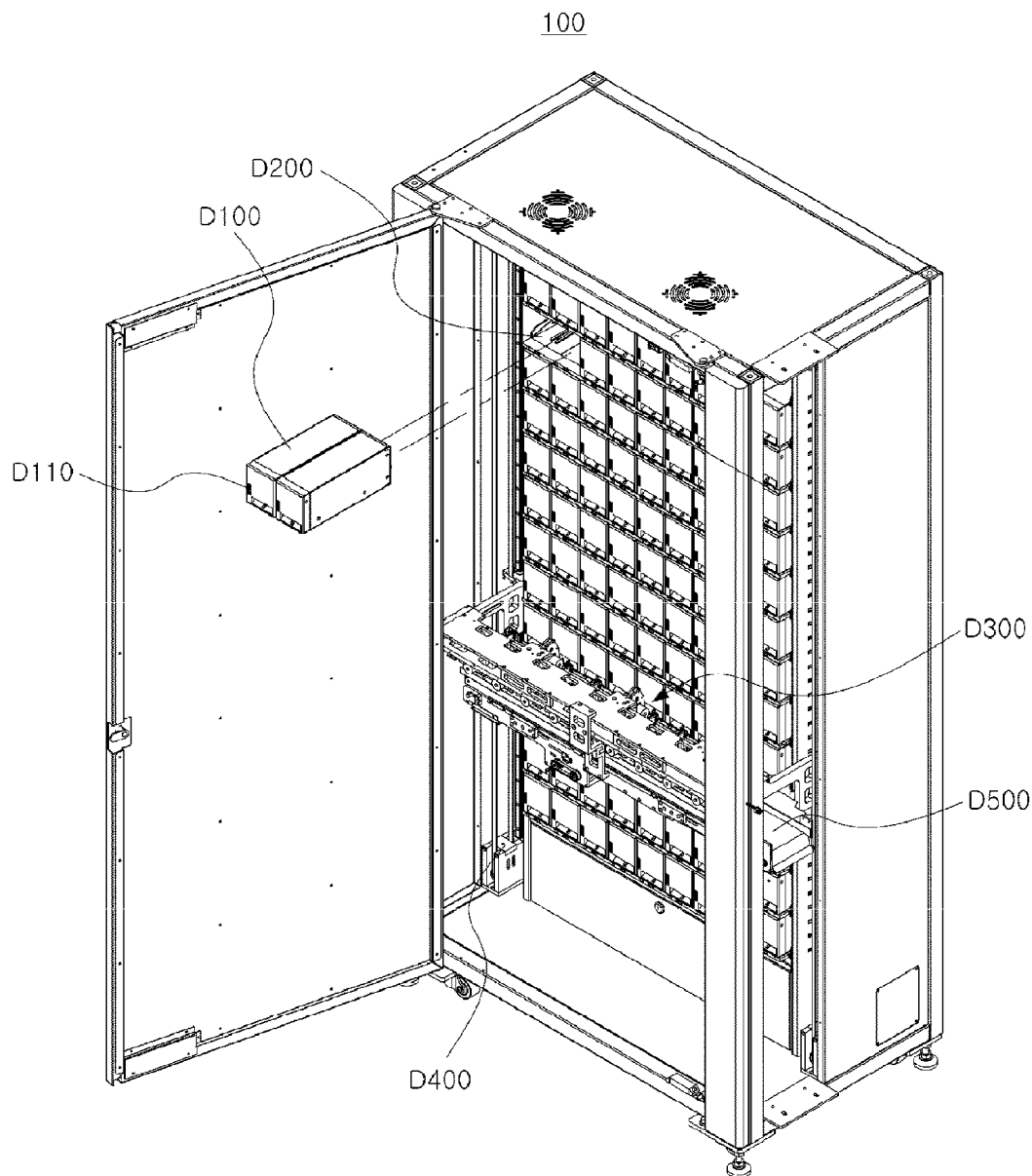
INNOVIVE

Family 11/13 - FAMPAT - ©Questel

Title

(EP2840547)

Medicine dispensing system and control method thereof

Images**Publication data including kind & date**

WO2013157851	A1	2013-10-24	WO2013157851
EP2840547	A1	2015-02-25	EP2840547
US2015127145	A1	2015-05-07	US20150127145
CN104662579	A	2015-05-27	CN104662579
EP2840547	A4	2016-08-03	EP2840547

**Abstract**

(EP2840547)

Disclosed in the present invention is a medicine dispensing device comprising: a medicine storage portion for storing a medicine; a medicine discharge portion for discharging the medicine stored at the medicine storage portion; a communication module for communicating with a hospital server; and a control portion for controlling the operation of the medicine storage portion and the medicine discharge portion so as to allow the medicine to be discharged on the basis of prescription information of a prescription received from the hospital server through the communication module.

Inventors

KIM JUN HO

Latest standardized assignees - inventors removed

JVM

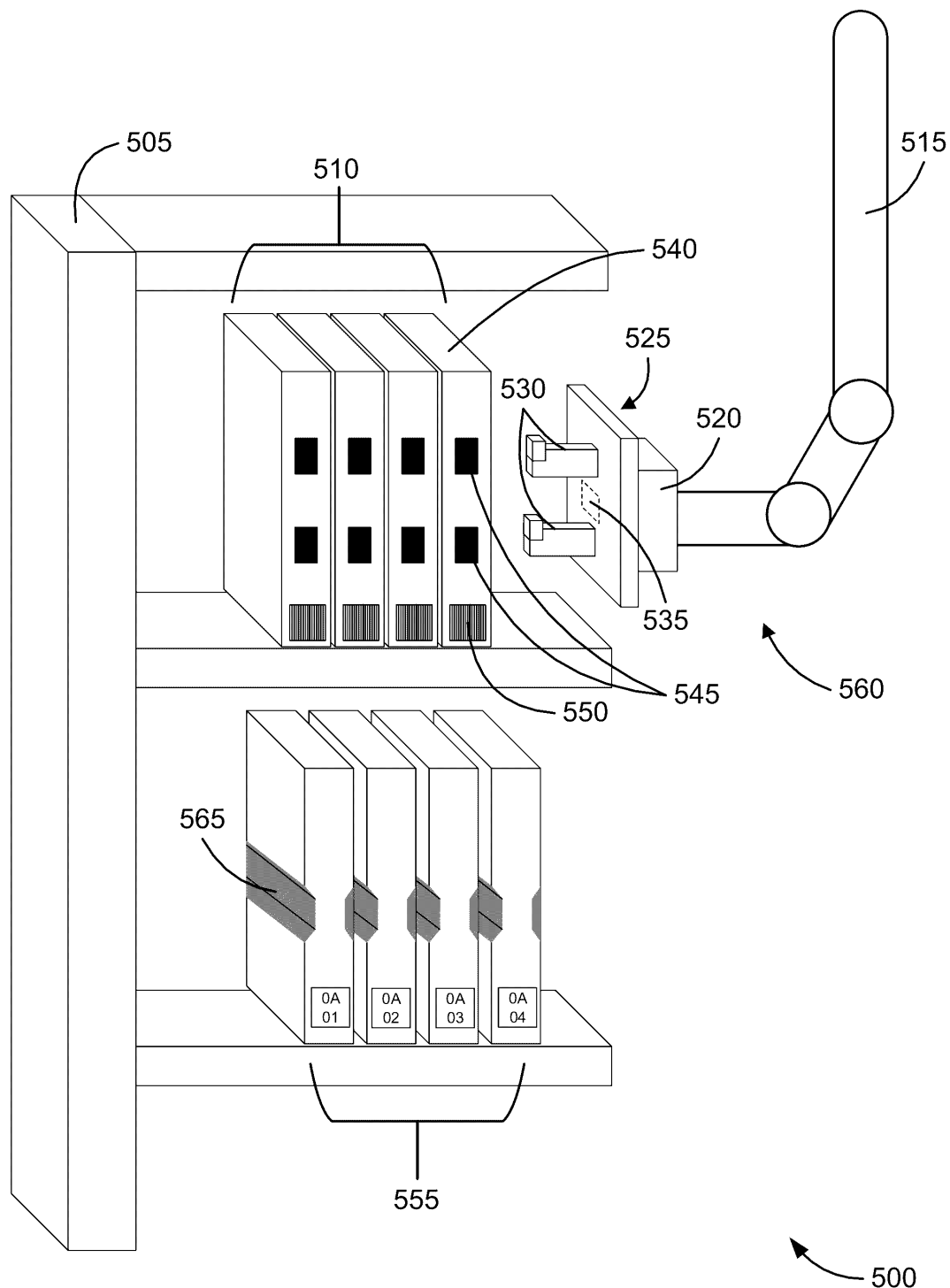
Family 12/13 - FAMPAT - ©Questel

Title

(US9943960)

Automated data center

Images

**Publication data including kind & date**

US2016107312	A1	2016-04-21	US20160107312
US9597801	B2	2017-03-21	US9597801
US2017144305	A1	2017-05-25	US20170144305
US9943960	B2	2018-04-17	US9943960

**Abstract**

(US9943960)

An automated data center management system includes one or more equipment racks housing at least one server farm equipment, each of the at least one server farm equipment having a respective attachment point, a spare equipment repository having at least one replacement equipment, and a hardware management robot. The hardware management robot includes a robotic arm having an interface point, the interface point configured to couple to the attachment point. A hardware management controller is communicates with the hardware management robot, the hardware management controller including at least one processor, and non-transitory computer readable media having encoded thereon computer

software comprising a set of instructions to receive a service request indicating a server farm equipment needing service, determine a location of the server farm equipment, generate a path to the location of the server farm equipment, and transmit the path to the hardware management robot.

Inventors

Morrill Robert J.

Wray Jared E.

Latest standardized assignees - inventors removed

EMBARQ

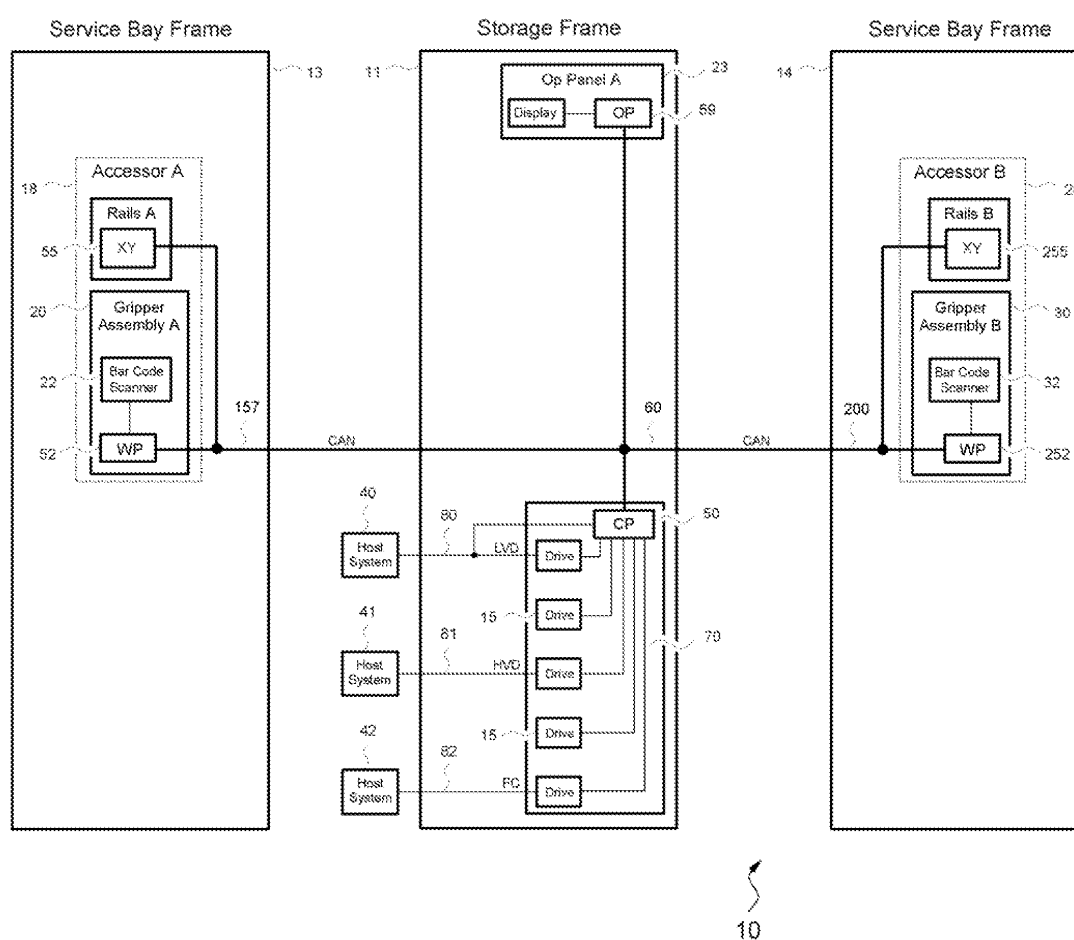
Family 13/13 - FAMPAT - ©Questel

Title

(EP2069998)

Selective encryption of data stored on removable media in an automated data storage library

Images



Publication data including kind & date

WO2008028804	A2	2008-03-13	WO200828804
US2008065903	A1	2008-03-13	US20080065903
WO2008028804	A3	2008-07-03	WO200828804
EP2069998	A2	2009-06-17	EP2069998
CN101512538	A	2009-08-19	CN101512538
JP2010503090	A	2010-01-28	JP2010503090
EP2069998	B1	2010-07-28	EP2069998
AT475939	T	2010-08-15	ATE475939
DE602007008117	D1	2010-09-09	DE602007008117
CN101512538	B	2011-06-29	CN101512538B



JP4912467	B2	2012-04-11	JP4912467				
US8230235	B2	2012-07-24	US8230235				
US2012239944	A1	2012-09-20	US20120239944				
US9141821	B2	2015-09-22	US9141821				
US2016004879	A1	2016-01-07	US20160004879				
US9471805	B2	2016-10-18	US9471805				

Abstract

(EP2069998)

In an automated data storage library, selective encryption for data stored or to be stored on removable media is provided. One or more encryption policies are established, each policy including a level of encryption, one or more encryption keys and the identity of one or more data cartridges. The encryption policies are stored in a policy table and the encryption keys are stored in a secure key server. A host requests access to a specified data cartridge and the cartridge is transported from a storage shelf in the library to a storage drive. Based on the identity of the specified cartridge, the corresponding encryption policy is selected from the table and the appropriate encryption key is obtained from the key server. The storage drive encrypts data in accordance with the key and stores the data on the media within the specified data cartridge.

Inventors

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GOODMAN BRIAN GERARD

JESIONOWSKI LEONARD GEORGE

Latest standardized assignees - inventors removed

IBM