

Diego Gonzalez

1) Family number: 20354861 (US5300875 A)

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Title: PASSIVE (NON-CONTACT) RECHARGING OF SECONDARY BATTERY CELL(S) POWERING RFID TRANSPONDER TAGS

Abstract: A concept of passively recharging the battery of battery backed electronic circuits and in particular utilizing these methods to recharge an RFID transponder's secondary cell(s). The invention particularly relates to battery backed transponders which contain rechargeable batteries wherein the recharging circuitry of the present invention allows for passive (non-contact) recharging of a battery residing in a transponder unit that may or may not be directly accessible for handling. The passive recharging strategies disclosed include utilizing energy sources such as: 1) a radio frequency (rf) signal generated outside the package; 2) a seismic geophone; 3) seismic piezoelectric accelerometers; 4) photovoltaic cells located outside of the transponder package; 5) infrared p-v cells located inside of the package driven by the heated package; and/or 5) acoustic energy (sonic and ultrasonic) coupled to the recharging circuitry via an acoustic transducer.

Classifications:

International (ipc 8-9): A45C13/10 A45C13/18 B22D19/00 B22F7/06 C23C16/30 G01S13/00 G01S13/74 G01S13/75 G01S13/76 G01S13/78 G01S13/79 G01S13/82 G01S19/48 G01S5/00 G01S5/14 G01V1/16 G01V1/18 G06K17/00 G06K19/07 G06K19/073 G06K19/077 G06K5/00 G06K7/00 G06K7/01 G06K7/10 G07B17/00 G08B13/12 G08B13/14 G08B21/00 G08G1/127 H01H69/00 H01H69/02 H01H85/00 H01H85/02 H01H85/04 H01H85/041 H01H85/045 H01H85/055 H01H85/06 H01H85/08 H01H85/11 H01H85/14 H01H85/147 H01H85/47 H01M2/02 H01Q1/22 H01Q1/38 H01Q1/44 H01Q21/24 H01Q21/28 H01Q3/24 H01Q9/04 H01Q9/28 H02J17/00 H02J7/02 H02J7/34 H02J7/35 H04B1/16 H04B1/38 H04L12/403 H04L12/56 H04L29/12 H04Q5/22

International (ipc 1-7): B29C33/00 B32B31/00 C23C16/30 G01S13/74 G01S13/75 G01S13/76 G01S13/79 G01S13/80 G01S5/14 G06F165/00 G06K19/06 G06K5/00 G06K7/08 G06K7/10 G08B13/08 G08B13/14 G08B13/187 G08B23/00 H01H69/02

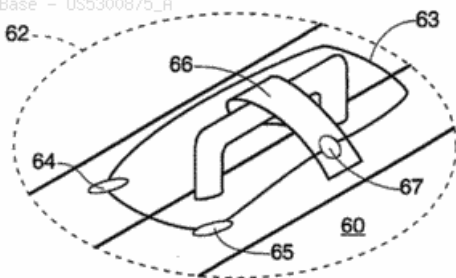
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US: 156/213 156/226 156/227 156/278 156/290 156/292 156/308.4 190/101 190/120 235/375 235/380 235/382 235/487 235/490 235/492 235/492P 235/492S 257/723 257/723S 257/724 257/724 257/924 29/855 320/138 320/20 320/23 324/764 327/564 337/166 337/186 337/198 340/10.1 340/10.100P 340/10.100S 340/10.2 340/10.200S 340/10.3 340/10.300P 340/10.5 340/10.500S 340/10.51 340/4.21 340/5.72 340/539 340/540 340/541 340/545.6 340/568.2 340/568.7 340/572 340/572.1 340/572.100P 340/572.100S 340/572.4 340/572.5 340/572.7 340/572.700P 340/572.700S 340/572.8 340/572.800P 340/572.800S 340/573.1 340/573.4 340/652 340/686.1 340/693.1 340/693.3 340/693.300P 340/693.5 340/693.9 340/8.1 340/825.08 340/825.21 340/825.27 340/825.29 340/825.3 340/825.32 340/825.49 340/825.54 340/870.16 340/993 342/42 342/44 342/44S 342/50 342/51 342/51S 343/702 343/726 343/727 343/728 343/741 343/795 343/908 370/342 370/346 370/347 370/447 370/449 375/1 375/141 375/200 375/220 380/23 380/270 380/34 429/127 429/162 429/177 429/185 438/115 438/125 438/126 438/127 438/19 455/129 455/269 455/351 455/41 455/41.2 455/517 455/53.1 455/575 455/66 455/74 455/90 455/90.1 455/90.2 700/223 701/200 701/210 701/214 701/468 701/517 701/521 713/168 713/189

Family:

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Probable Assignee: ROUND ROCK RESEARCH LLC

Assignee(s): (std): COOPER IND INC ; KEYSTONE TECHNOLOGY SOLUTIONS ; MICRON COMMUNICATIONS INC ; MICRON SEMICONDUCTOR INC ; MICRON TECHNOLOGY INC ; ROUND ROCK RES LLC ; TUTTLE JOHN R

Assignee(s): COOPER IND ; COOPER INDUSTRIES INC ; COOPER TECHNOLOGIES CO ; KEYSTONE TECHNOLOGY SOLUTIONS LLC ; LAKE RICKIE C ; MAIKURON KOMYUNIKESHONZU INC ; MICRON SEMICONDUCTOR INC BOISE ID US ; MICRON TECHNOL INC ; MICRON TECHNOLOGY INC A DE CORP ; MICRON TECHNOLOGY INC BOISE ID US ; NAVY SECRETARY OF UNITED STATES OFFICE OF NAVAL RE ; NAVY SECRETARY OF UNITED STATES OFFICE OF NAVAL RESEARCH ; ROUND ROCK RESEARCH LLC ; TUTTLE MARK E ; マイクロン・コミュニケーションズ・インコーポレイテッド ; マイクロン・セミコンダクター・インコーポレイテッド ; 古柏工業公司 ; 쿠파인더스트리즈인코포레이티드

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

2) Family number: 33002314 (US2006145870 AA)

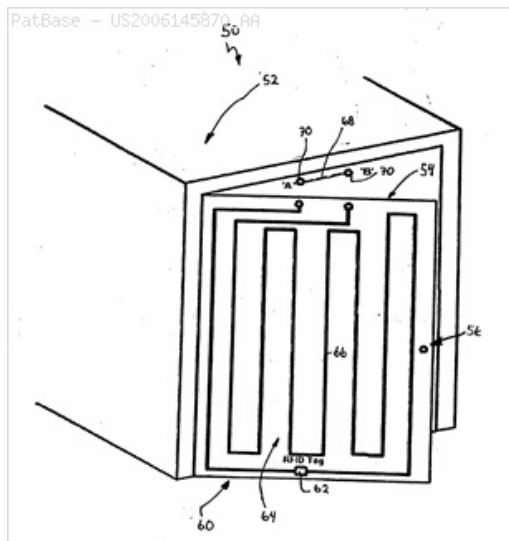
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Title: CONTAINER INCLUDING A TAMPER-RESISTANT SEAL AND TO A RADIO FREQUENCY IDENTIFICATION SEAL

Abstract: A radio frequency identification seal comprises an antenna including a main antenna portion and at least one break-away portion and an RFID tag coupled and tuned to the antenna. The RFID tag outputs a signature in response to a scanning signal when tuned to the antenna.

Classifications:

International (IPC 8-9): B65D55/02 G01V15/00 G06K19/077 G08B13/06 G08B13/08 G08B13/12 G08B13/14 G08B13/24 G08B21/00 G09F3/03
CPC: G06K19/07749 G06K19/07798 G08B13/126 G08B13/2402 B65D2203/10 B65D55/02 G08B13/08 G08B13/2417 G08B13/2422 G08B13/2431 G09F3/0335 G08B13/2428
US: 1/1 235/375 235/382 235/385 235/492 340/303 340/539.31 340/541 340/542 340/545.1 340/545.6 340/572.1 340/572.5 340/572.500S 340/572.7 340/572.700S 340/572.8 340/572.800P 340/686.1 340/686.100S 340/687



Family:

Publication number	Publication date	Application number	Application date
CA2523832 AA	20060419	CA20052523832	20051019
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US2006145870 AA	20060706	US20050252573	20051019
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US8063779 BB	20111122	US20080081444	20080416
US2012235815 AA	20120920	US20110302958	20111122
US9070068 BB	20150630	US20110302958	20111122
US2015332142 AA	20151119	US20150744486	20150619
US9483724 BB	20161101	US20150744486	20150619
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Priority:

US20040619692P 20041019 CA20052523832 20051019 US20050252573 20051019
US20080081444 20080416 US20110302958 20111122 US20150744486 20150619
US20160286797 20161006

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Agent(s): HARNESS DICKEY AND PIERCE PLC ; MARKS AND CLERK ; SIM AND MCBURNEY

3) Family number: 37088413 (US2007222606 AA)

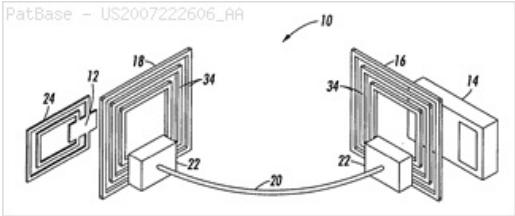
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Title: MODULE WITH RFID TAG AND ASSOCIATED BRIDGE ANTENNA

Abstract: An RFID bridge antenna is positioned between a tag antenna associated with a tag and a reader antenna associated with a reader. The bridge includes at least two RF antenna elements spaced apart from one another and coupled together by an electrical conductor. The first RF antenna element is located proximate to the tag antenna and the second RF antenna element is located proximate to the reader antenna. An electromagnetic carrier signal transmitted by the reader antenna is received by one of the RF antenna element and retransmitted to the tag antenna by the other RF antenna element, increasing the distance over which the tag can communicate with the reader. Where the tag is attached to a packaged object, the RFID bridge antenna may be included in the package to allow wireless data communication between the tag and a reader. The reader may also be located external to the package. For example, one of the RF antenna elements may be attached to a label on the package, allowing data stored in the tag to be extracted by the external reader. The object may be a module, also known as a customer replaceable unit (CRU), and the tag may be configured as a customer replaceable unit monitor (CRUM). The module may take the form of a container having a closure cap equipped with a tag and the container may be stored in a cabinet along with an RFID bridge antenna mounted on the cabinet door to establish data communication between the tag and a reader.

Classifications:

International (IPC 8-9): B42D15/10 B65D55/02 G03G21/00 G06F19/00 G06K17/00 G06K19/06 G06K19/07 G06K7/00 G06K7/10 G08B13/14 H01Q1/24 H01Q21/00 H01Q7/00 H04B5/02 H04Q5/00 H04Q5/22
CPC: G06K17/0022 G06K19/0723 G06K7/0008 G06K7/10178
US: 235/385 235/386 235/492 340/10.1 340/568.1 340/571 340/572.1 340/572.7 340/572.700P 340/572.8



Family:

Publication number	Publication date	Application number	Application date
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US2007222606 AA	20070927	US20060388043	20060323
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Priority:

US20060388043 20060323 EP20070104508 20070320

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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 MK MT NL PL PT RO RS SE SI SK TR YU

4) Family number: 34243886 (WO07022802 A1)

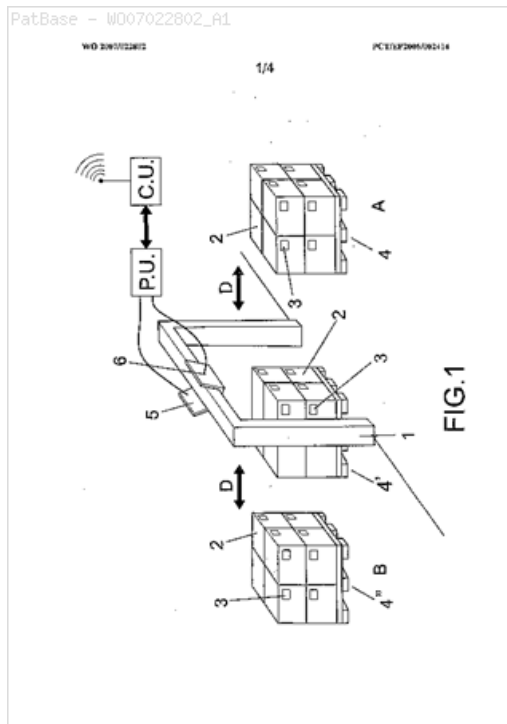
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Title: METHOD AND INSTALLATION TO MONITOR THE CONTENT OF A STORAGE AREA

Abstract: The present invention relates to a method and an installation for the remote monitoring of the content of a storage area, such as a transport container, a truck or a warehouse. By the use of RFID technology, the invention makes it possible to know at all times the content of a container or a truck, without requiring the intervention of any operator and including the loading and unloading of goods carried out during the route of the truck or container. By processing the sequence of readings from RFID identification system reader antennas (5, 6), the direction of passage of the objects (2) is determined. The present invention has its field of application in radio frequency identification systems RFID.

Classifications:

International (IPC 8-9): G06K7/00 G06Q10/00
CPC: G06K7/0008 G06K7/10079 G06K7/10316

**Family:**

Publication number	Publication date	Application number	Application date
ES2285905 AA	20071116	ES20050002090	20050824
ES2285905 BA	20081001	ES20050002090	20050824
WO07022802 A1	20070301	WO2006EP02414	20060316

Priority:

ES20050002090 20050824

Probable Assignee: AIDA CT S L**Assignee(s):** (std): AIDA CT S L ; POUS ANDRES RAFAEL**Assignee(s):** AIDA CENTRE S L**Inventor(s):** (std): POUS ANDRES RAFAEL**Inventor(s):** RAFAEL POUS ANDRES

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

5) Family number: 32393059 (US2005247782 AA)

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Title: LOW TEMPERATURE RADIO FREQUENCY IDENTIFICATION TRACKING SYSTEM

Abstract: The present invention relates to a storage device comprising an antenna for transmission of data to and/or from a radio frequency identification (RFID) tag. More specifically, the invention relates to a low or ultra-low temperature storage device comprising an antenna for transmission of data between a radio frequency identification (RFID) tag and an RFID tag transceiver and its use for item identification, organization, classification, databasing, tracking or locating.

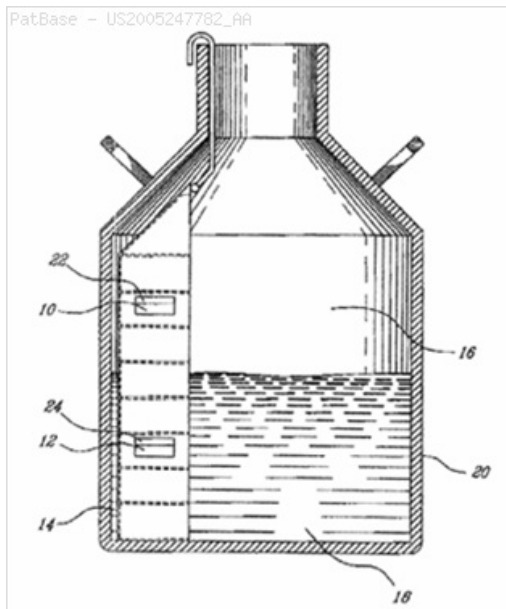
Classifications:

International (IPC 8-9): B01L3/00 G01N35/00 G06F17/60 G06K17/00

International (IPC 1-7): G06F17/60

CPC: B01L2300/022 B01L3/545 F25D2700/08 F25D29/00 G01N2035/00782 G06K17/00

US: 235/385 235/385P 235/462.13

**Family:**

Publication number	Publication date	Application number	Application date
US2005247782 AA	20051110	US20050113960	20050425
US7350703 BB	20080401	US20050113960	20050425

Priority:

US20040564604P 20040423 US20050113960 20050425

Probable Assignee: AMBARTSOUMIAN GOUGEN

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Inventor(s): (std): AMBARTSOUMIAN GOUGEN ; AMBARTSOUMIAN GOURGEN

Agent(s): EWING JAMES F; FOLEY AND LARDNER LLP; JAMES F; MICHAEL; MORENCY MICHAEL

6) Family number: 41883472 (US2008129493 AA)

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Title: SHIPPING CONTAINER MONITORING SYSTEM

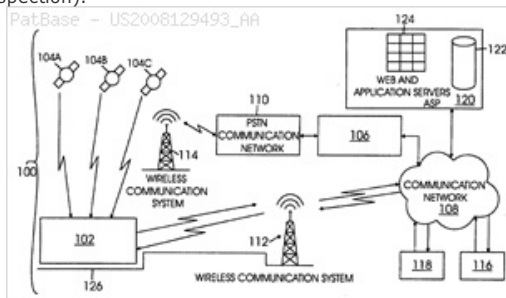
Abstract: The present invention provides a method and apparatus for using a sensor array that detects environmental changes in or around a shipping container. Sensors detect NBC materials and detect tampering with the container (such as broken seals and open doors). The sensors are monitored remotely. The sensors are tracked for determining risk levels and communicating the risks to receiving ports, customs officials, shipping companies, and other interested entities. The sensors can also detect environmental conditions that may be important to the protection of cargo that may not be security-sensitive, but may require special conditions (such as perishable food). The system may categorize cargo into various levels of risk (such as mandatory inspection, occasional inspection, and random inspection).

Classifications:

International (IPC 8-9): G08B1/00 G08B1/08

CPC: G06Q10/08

US: 340/539.22 340/539.220P

**Family:**

Publication number	Publication date	Application number	Application date
US2008129493 AA	20080605	US20060541597	20061201

Priority:

US20060541597 20061201

Probable Assignee: FUENTES LAZARO

Assignee(s): (std): FUENTES LAZARO ; MAYORAL LEOPOLDO M

Inventor(s): (std): FUENTES LAZARO ; MAYORAL LEOPOLDO M

Agent(s): FREDERIC M DOUGLAS

7) Family number: 28289210 (US6453584 BA)

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Title: CONTINUOUS VACUUM, SEPARATOR, DISPENSING SYSTEM

Abstract: A vacuum boring and mud recovery system comprising a vacuum container, a vacuum producing device to create

a vacuum within said container, a conduit to vacuum solid particles and liquids into the vacuum container and a dispensing device to dispense the liquid or solid particles from the vacuum container without eliminating the vacuum environment within the vacuum container. Vacuum container contents are stored within the container while simultaneously dispensing the solid particles and or liquids. The vacuum container system may also have a separating device disposed within it to separate solids and liquids by category. The vacuum container system is a continuous operation vacuum container which can simultaneously fill, store and dispense solid particles and liquids with the added ability to simultaneously separate the solids and liquids before they are dispensed from the vacuum container. This is accomplished without eliminating the vacuum environment within the vacuum container.

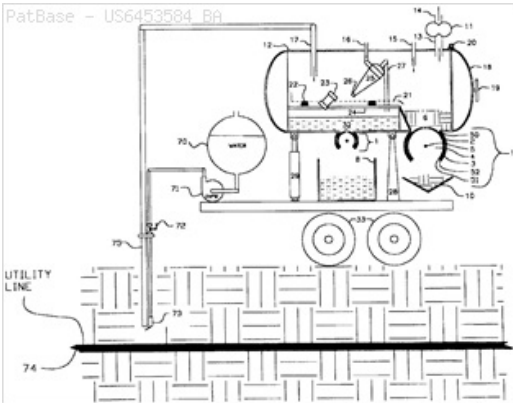
Classifications:

International (ipc 8-9): A47L5/38 B08B3/02 B08B9/00 B08B9/04 B60P1/00 B60P1/60 B63C7/22 E01H1/00 E01H1/08 E01H1/10 E02F3/88 E02F3/92 E02F5/00 E02F5/28 E02F7/00 E02F7/06 E03F7/00 E03F7/10 E03F9/00 E21B21/00 E21B21/06 E21B43/114 E21B7/18 F26B5/04

International (ipc 1-7): C09K3/00 E01H1/08 E02F3/88 E21B2/106 E21B21/06 E21B3/18 E21B4/3114 E21B43/114

CPC: E02F3/8816 E02F3/9262 E02F3/9268 E21B21/066 E01H1/0827 E01H1/103 E02F3/8825 E02F3/9206 E02F5/28 E02F7/06 E03F7/10 E03F9/002 Y10S37/905 E02F3/8891 E02F3/925 E02F3/907 E02F3/964 E02F5/282 E02F3/94 E02F3/384 E02F9/26

US: 134/166.00CP 134/166C 134/168C 15/104.31 15/300.1 15/302 15/315 15/315P 15/340.1 15/340.100P 15/340.100S 15/346 15/352 175/66 175/67 210/295 210/360.1 210/787 220/212 34/406 34/406P 37/304 37/304P 37/317 37/317P 37/320 37/323 37/466 37/905 37/905S 373/230 414/467 414/467P



Family:

Publication number	Publication date	Application number	Application date
US6453584 BA	20020924	US20000722797	20001127
US2002189139 AA	20021219	US20020217055	20020812
US6988568 BB	20060124	US20020217055	20020812
US2005210623 AA	20050929	US20040810184	20040329
US7503134 BB	20090317	US20040810184	20040329
US2006032095 AA	20060216	US20050208565	20050822
US7644523 BB	20100112	US20050208565	20050822
US2006032012 AA	20060216	US20050212077	20050825
US2008040945 AA	20080221	US20070809957	20070604
US2010095559 AA	20100422	US20090592142	20091119
US2010196129 AA	20100805	US20090653871	20091218
US2010326481 AA	20101230	US20100807119	20100827
US8739354 BB	20140603	US20100807119	20100827

Priority:

US20000722797	20001127	US20020363058P	20020311	US20020384719P	20020603
US20020217055	20020812	US20040810184	20040329	US20050208565	20050822
US20050212077	20050825	US20060810747P	20060605	US20060814791P	20060620
US20060814721P	20060620	US20070809957	20070604	US20080203830P	20081230
US20090275411P	20090828	US20090277201P	20090922	US20090592142	20091119
US20090653871	20091218	US20100807119	20100827		

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Inventor(s): BUCKNER LYNN ; LYNN ALLAN BUCKNER ; LYNN ALLEN BUCKNER

Agent(s): LYNN A BUCKNER