

3. **Cylinder lock**

WO200166885

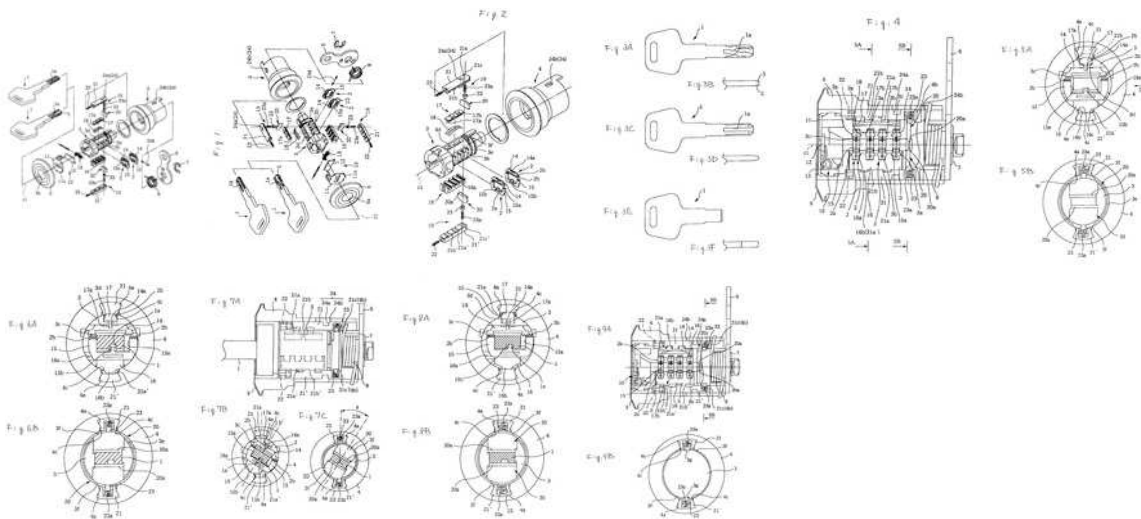
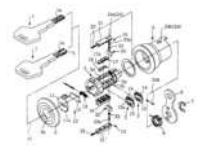
2001-02-27

ALPHA*

2001-09-13

2001-09-13

The invention provides a **cylinder lock** which allows the unlocking code to set at any desired time after the **cylinder lock** has been assembled and which, before the setting of the unlocking code, allows the rotor to be rotated for the purpose of improving the efficiency of the automotive assembly work. In the **cylinder lock** of this invention, wherein a rotor (3) in which tumblers (2) are installed, is rotatably inserted in a **cylinder case** (4), the tumblers (2) following a code forming portion (1a) of an inserted **key plate** (1) to form a **lock-side** unlocking code that matches a key-side unlocking code defined by the code forming portion (1a), wherein the tumblers (2) are put in a state where the **lock-side** unlocking code is formed, in response to an identification portion (5) formed in the **key plate** (1). <IMAGE>



4. **A lock body structure preventing winging** CN2697232

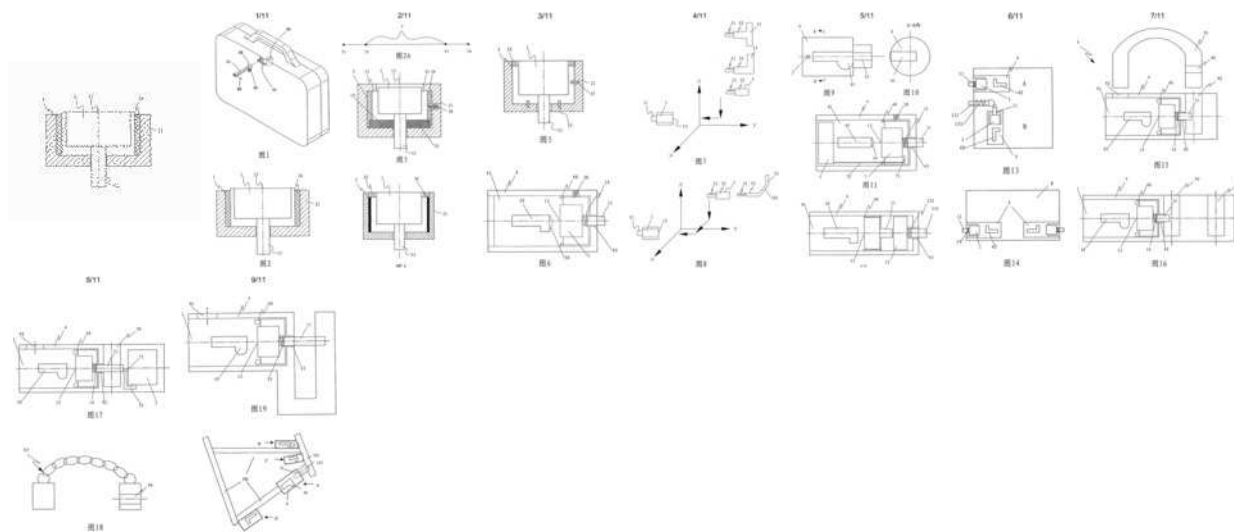
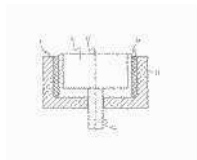
2004-01-07

QIN CAIDONG

2005-05-04

2005-05-04

A **lock body structure preventing winging lock cylinder** and an installation method thereof, comprising: a pushlock head (1) arranged in mounting hole (2); a false fixation is provided between the pushlock head (1) and the mounting hole (2), the joint strength of which is between the torque force of a key when the **lock** is normally opened and the torque force of the **lock cylinder** when it is wrong to be broken. When the **lock** is normally opened with the key, the pushlock head (1) is fixed relative to the mounting hole (2), but when the **lock body** is wrong, the pushlock head (1) rotates freely relative to the mounting hole (2). The present invention can thoroughly resolve the question that the **lock cylinder** is damaged by reamer type tools so that the **lock** would be unlocked illegally, so locking is more practical and reliable.



5. Case with internal lock

US20020023853

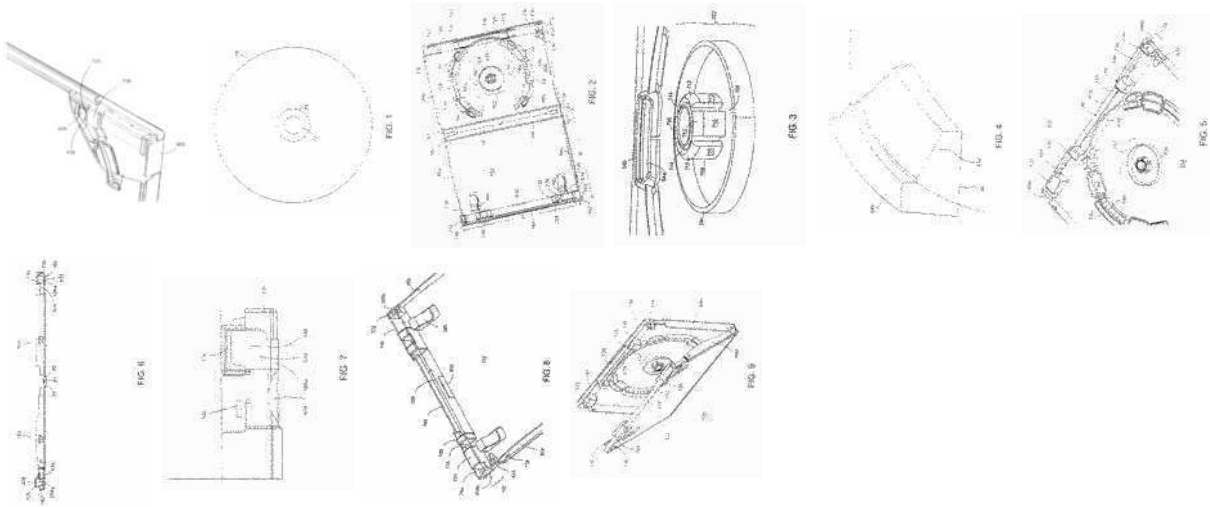
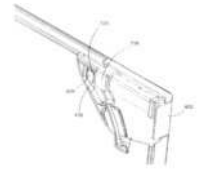
2001-05-16

AUTRONIC PLASTICS
AUTRONICS PLASTICS*

2002-02-28

2002-02-28

A lockable storage case includes a top cover pivotably coupled to a bottom cover through a spine. The top cover includes loops or an upper **lock** receiving member and a lower **lock** receiving member defining a top cover **lock** insertion path. The bottom cover includes loops or an upper **lock** receiving member and a lower **lock** receiving member defining a bottom cover **lock** insertion path. The lower **lock** receiving members of both the top and bottom covers include hooks for receiving and maintaining a **latch**. When the top cover is closed on the bottom cover, the top and bottom cover insertion paths combine to form a combined **lock** insertion path. A **lock** for the storage case includes first and second catch mechanisms with first and second catches. To **lock** the storage case, the **lock** is inserted into the combined **lock** insertion path so that the catches on the **lock** mate with and are retained with the hooks in the top and bottom covers. <IMAGE>



6. Combination lock

US20030205069

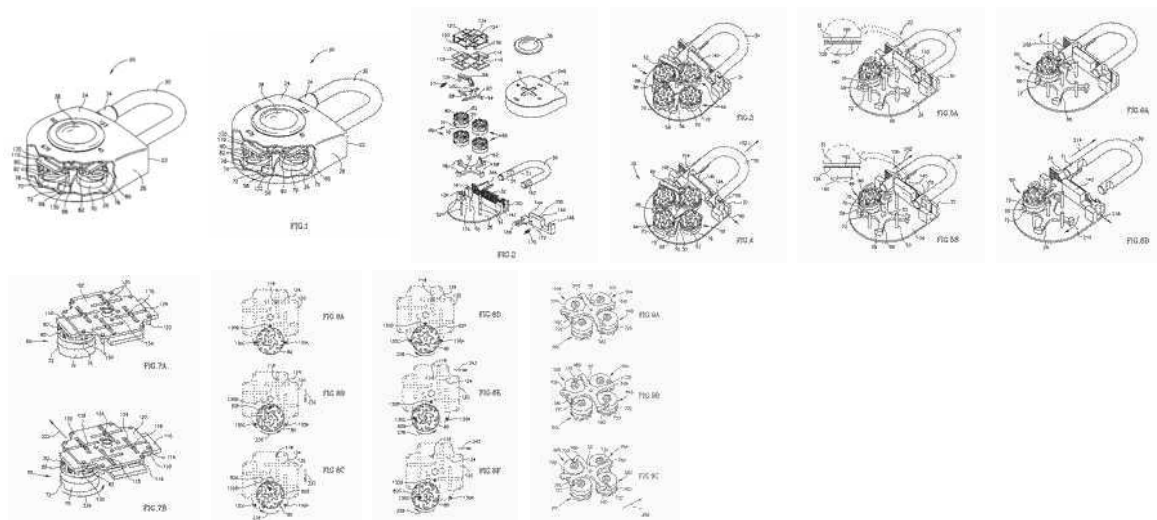
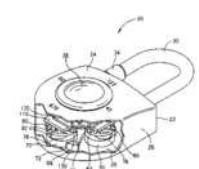
2002-05-06

KNOLLAN*
NORAN ISRAEL A' 3 0 0 9 5 A' ISAAI A'
RAMATO A' HARE AARON STREET A'
4 6 A
НОЛЛАН ИТД

2003-11-06

2003-11-06

A combination **lock** comprising a housing (22), a locking bolt (30) and a locking breach (140), at least one locking assembly (66) rotatably supported within the housing (22) and comprising a disc member (70) formed with a peripheral recess (72), a cam wheel (80) and a reset cam (76). A locking member (56) is formed with at least one locking lug (58) angularly displaceable between an un-locked position in which all the locking lugs engage within the peripheral recess (72) of the disc members (70) and where the locking breach (140) is disengaged from the locking bolt (30), and a locked position in which at least one of the locking lugs (58) is disengaged from the peripheral recess (72), where the locking breach (140) arrests the locking bolt (30). A planarily displaceable manipulating member (120) comprises at least one follower (130) corresponding with each cam wheel (80). A reset mechanism (88) is provided for rotating all disc members (70) into a reset position.



7. Electrically operated ratcheting pawl latch WO200204771

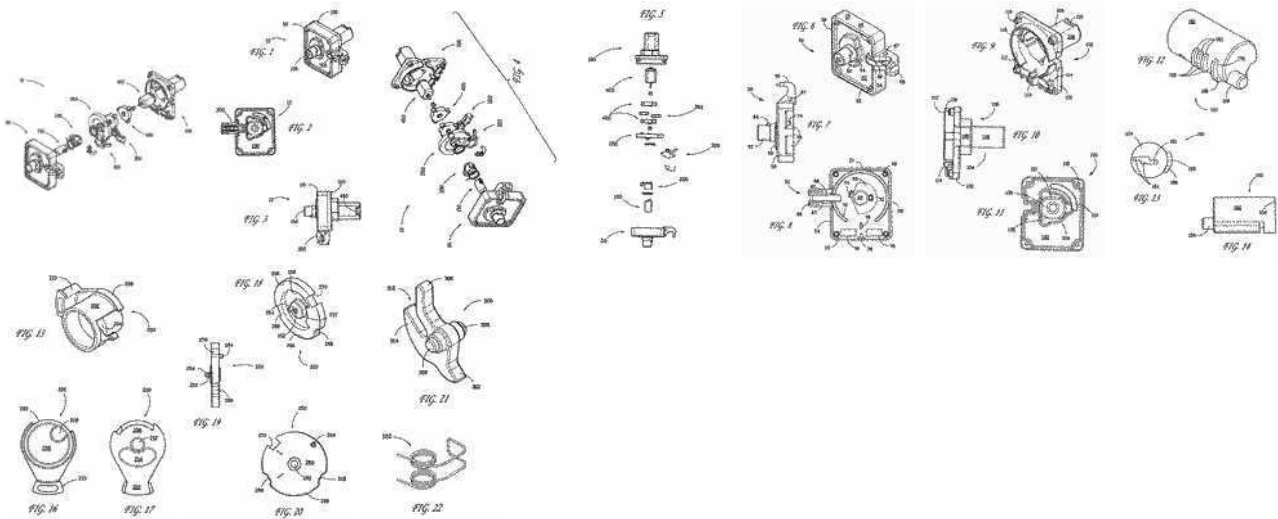
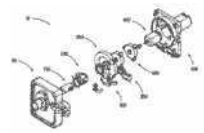
2001-07-06

SOUTHCO*

2002-01-17

2002-01-17

A **latch** (10) includes a housing (50), a pawl (300) pivotally supported by the housing and movable between a latched position and an unlatched position, a **spring** (552) biasing and pawl (300) toward the unlatched position, and a locking member (250) being rotationally movable about an axis of rotation between an open position and a locked position. The locking member (250) interferes with the movement of the pawl (300) such that the pawl is maintained in the latched position when the pawl (300) is in the latched position and the locking member (250) is in the locked position. The locking member (250) allows the pawl (300) to move to the unlatched position when the locking member (250) is in the open position. The **latch** may further include a motor housing (100), a lockplug (150), a lockplug member (200), at least one roller switch (350), at least one gearbox (400), and a motor (450).



8. Plug-type door lock has sliding bolt connected to spring and cylinder lock and has bolt stop plate with profiled slit engaging fixed pin

DE10156632

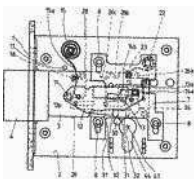
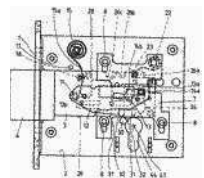
2001-11-17

STEINBACH & VOLLMANN*

2003-06-12

2003-06-12

The **lock** has a flat rectangular **plate** (2) with a front **plate** (1) projecting at right angles to one of the narrow edges. The end of the bolt (4) protrudes through a slit in this **plate**. The inner portion of the bolt (3) has notches (26a-c) to accommodate a locking **pin** (23) held by a **spring** (22) so that the bolt can be held in a fully extended, half extended and fully retracted position. A bolt stop **plate** (12) is pivoted on a pivot (11) on the bolt and has a slit divided into two portions (13a-b) engaging a **pin** (14a) fastened to the **lock** housing. The **pin** may bear against steps (14b) in the sides of the slit. The system includes a **plate** which may be placed in two different settings.



9. Retaining mechanism for mortise cylinders

CA2503958

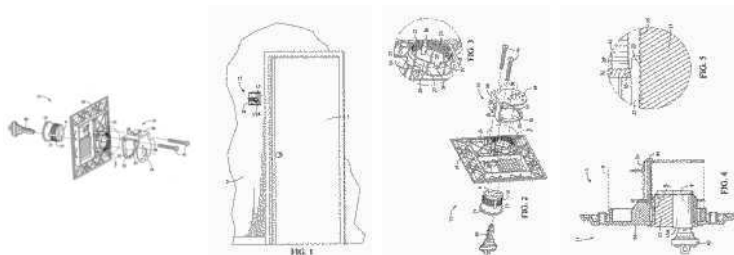
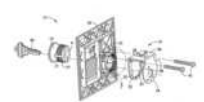
2005-04-05

DETEX*

2005-10-08

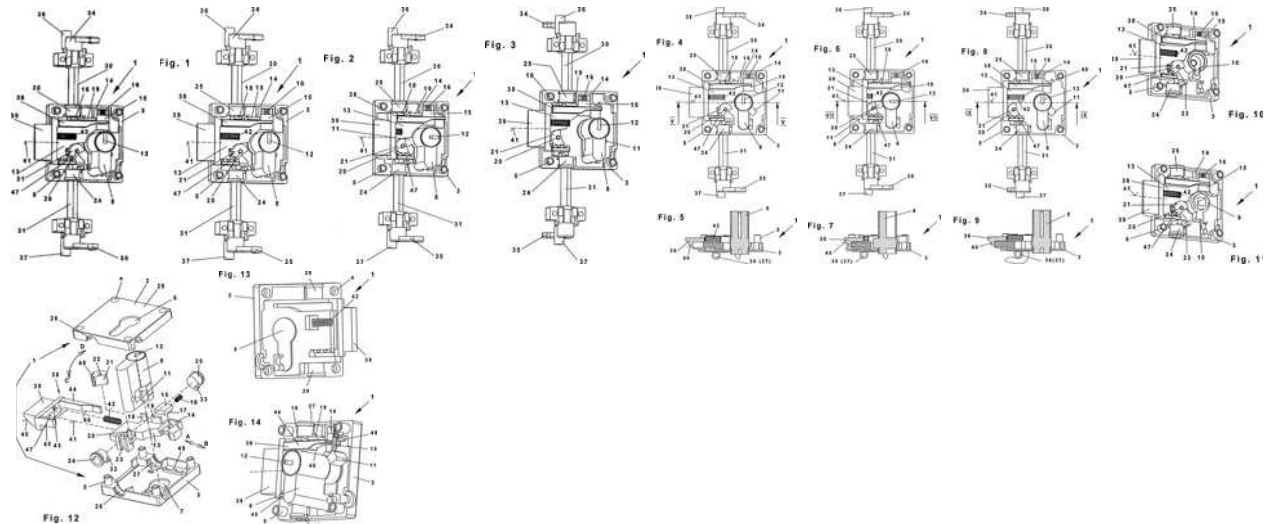
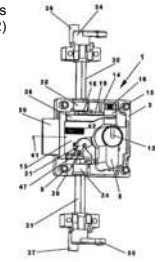
2005-10-08

A mortise **cylinder** has a longitudinal axis and an exterior surface. A collar member has an internal dimension or diameter that is adapted to receive the mortise **cylinder** in close sliding relation. A locking member is adapted to surround the collar member about the exterior surface of the mortise **cylinder**, wherein the mortise **cylinder** is secured against axial movement relative to the collar. The collar is less rigid than the exterior surface of the mortise **cylinder**. According to the preferred embodiment of the present invention, the collar member is formed integrally with a cover that secures the **lock** assembly to a door.



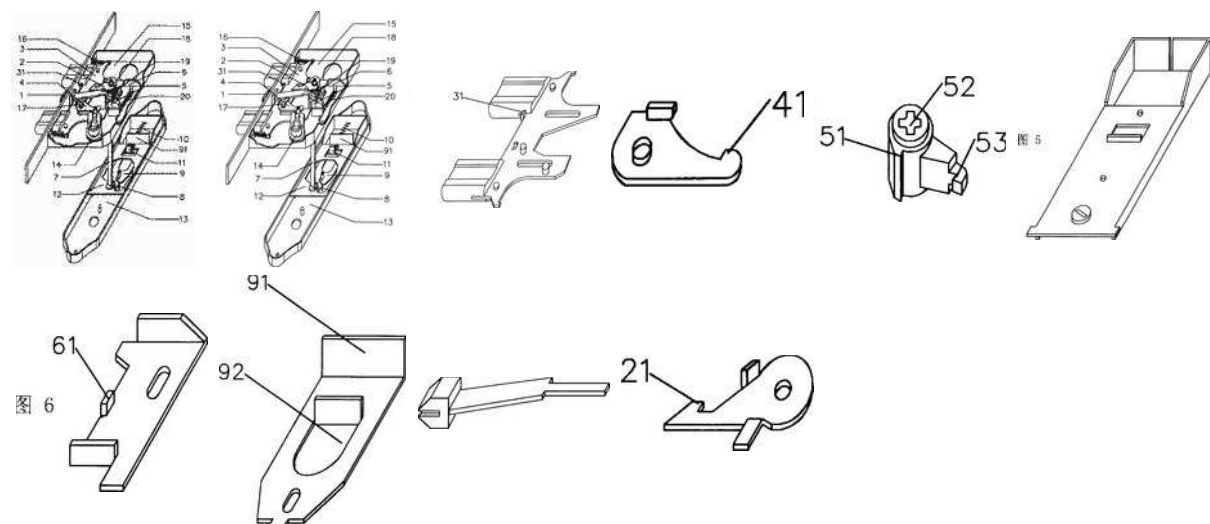
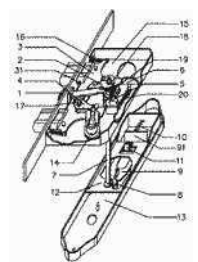
13. Combined bolt and rotary shaft **lock** for piece of furniture has housing with internal **spring** and bolt and shaft with hooks on end passing through it DE102004006608 2004-02-11 JUL NIEDERDRENK* 2005-10-20 2005-10-20

The **lock** for a piece of furniture has a housing (1) made in two halves (3) fastened together by screws. The housing contains an internal **spring** (42) and a bolt (38). There are shafts (30,31) passing through couplings (24,25) in the housing, each with a hook (34,35) on its ends, together with bearings (36,37). The housing contains a **cylinder lock** (8), with a slot (12) for a security key, and an operating lever.



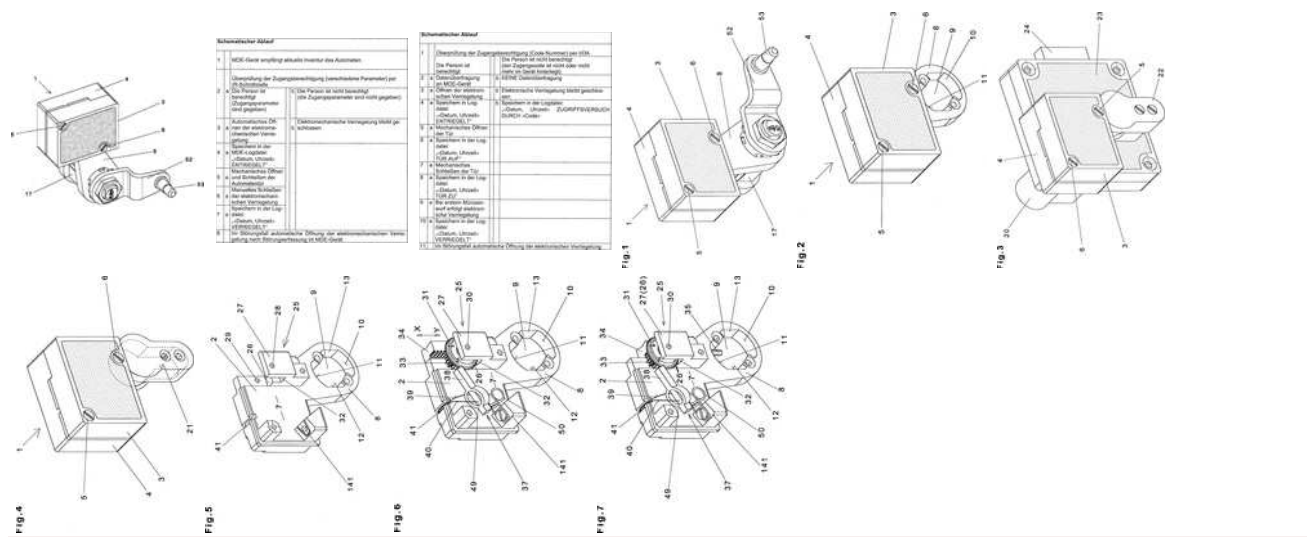
14. Automatic **spring lock** for closing door CN2515385 2001-12-28 ZHANG LIANGHUI 2002-10-09 2002-10-09

The utility model relates to an intercalation heart **lock** which can automatically **lock** a door without using a key, and comprises a buckle box, a **lock casing**, bolt components, hitting tongue components, braking components, tapered end components, and an opening-pulling bar, and is characterized in that a sliding safety **guard** is arranged on the back portion of the bolt components, a spacing wing is arranged on the safety **guard**, a safety shaft which is connected with a safety drive rod is arranged on the **lock casing**, a shaft button and a **spring hook** is radially arranged on the safety shaft, a back-moving **spring** is arranged between the **spring hook** and the **lock casing**, a hook **plate** and a hook **plate spring** are arranged on the tapered end components, the other end of the safety drive rod is connected with a safety rotor **plate**, the safety rotor **plate** is provided with a resisting swing, a safety retaining **plate** is arranged on one end of the safety rotor **plate**, a safety retaining **plate spring** is arranged between the safety retaining **plate** and an inner surface **plate**, a reset of the safety retaining **plate** is controlled by the **lock pin** which is connected with the tapered end components.



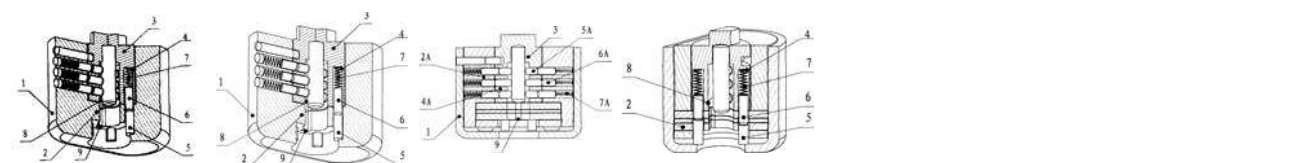
15. **Lock for a safe or cash dispenser and the like, with a mechanical locking mechanism, has an additional lock with a motor drive operated by a portable data capture/input unit through a computer** DE102004055979 2004-11-19 JUL NIEDERDRENK* 2006-05-24 2006-05-24

The **lock** for a safe, cash or merchandise dispenser and the like, has a conventional mechanical locking mechanism and an additional **lock** (58) operated and controlled by an electrical and/or electronic motor drive (87) for movement between locked and unlocked settings. The system works with a portable data capture or input unit (66) with software memory (82) and monitor (84), an infra red connection to a receiver (67) and a computer (63).



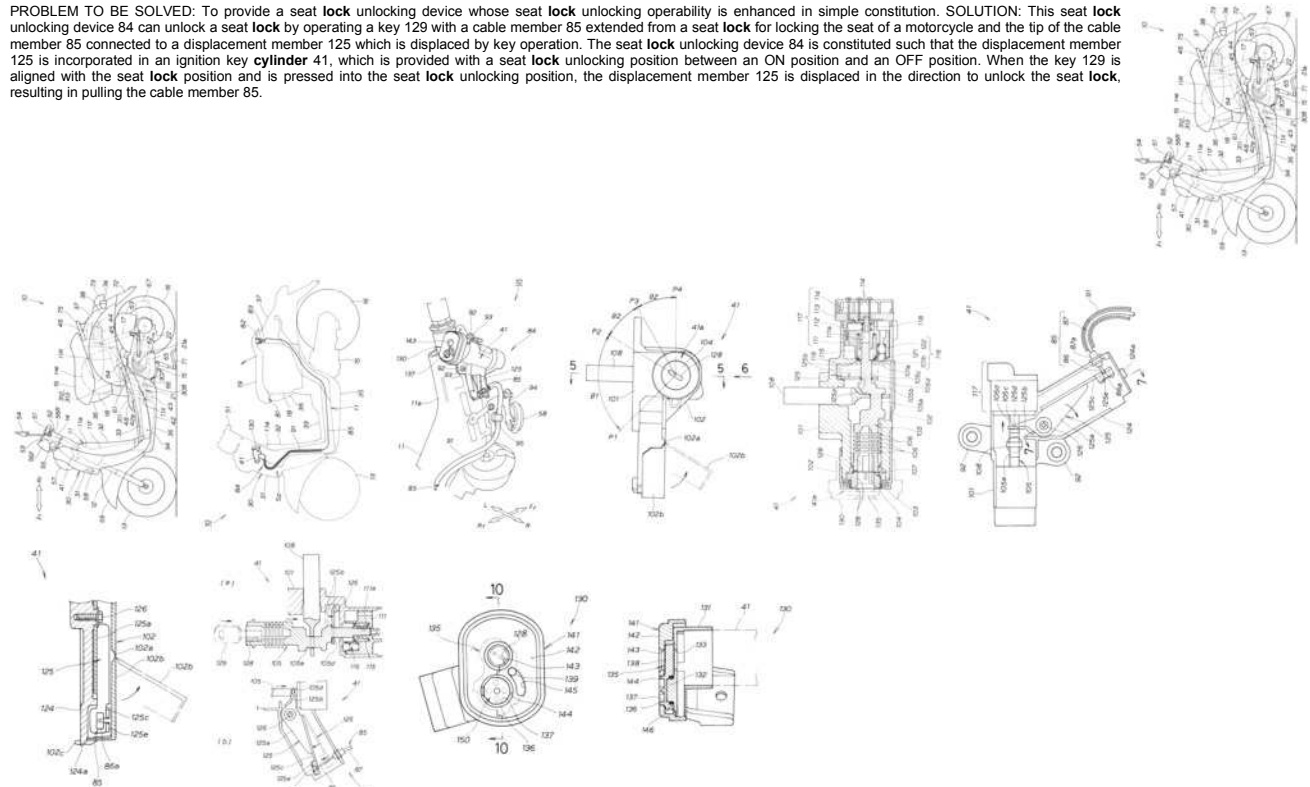
16. **Structure of lock head-postposition rotating disc with cylinder planar arrangement** CN2616611 2003-01-11 DU WEIQIANG 2004-05-19 2004-05-19

The utility model relates to a **lock-head** structure with springs in plane tiling, comprising a **lock-head** body, a fixed **spring plate**, a rotating **lock** core, a moving **spring plate**, a key-touch **spring** group, an inner **spring** group, a **spring** group, a transmission keyway, a transmission key channel, and other members. The utility model is characterized in that the axial direction set by the key-touch **spring**, the inner **spring** and the composite springs in the same group coincides with the axial of the key hole, and the group of the **spring** teams is arranged in plane tiling in the key hole of the **lock-head**. The fixed **spring plate** accommodating the key-touch group is arranged in the end of the key hole of the **lock-head**; the moving **spring plate**, the inner **spring** group, the **spring** group, the transmission keyway, and other members arranged in the rotating **lock** core, are post-arranged and hidden in the **lock-head**.



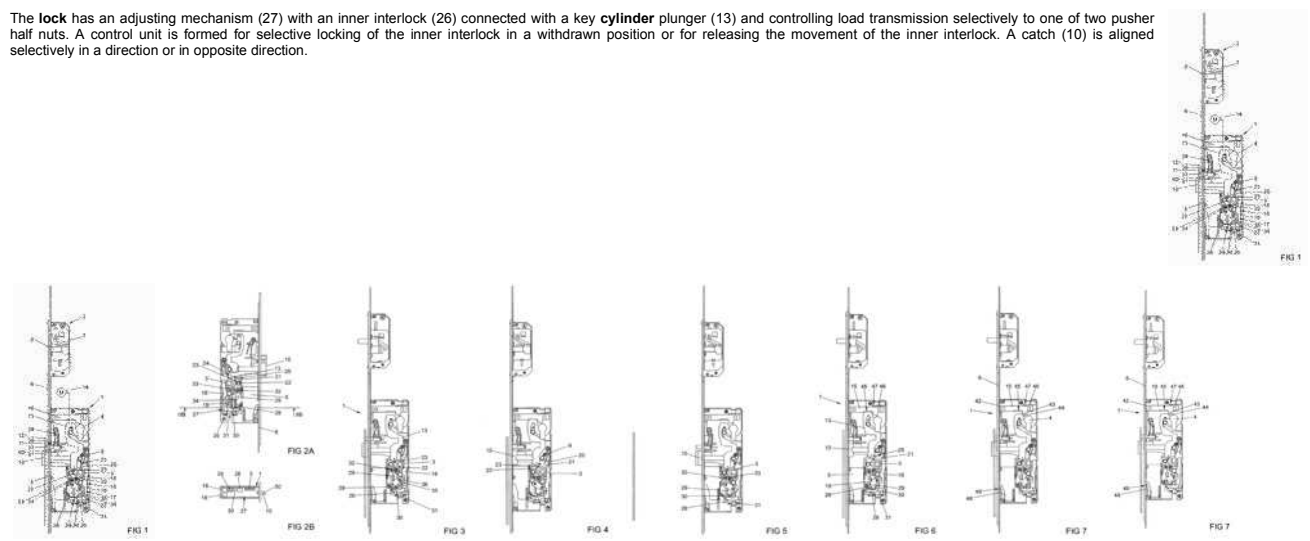
17. **Seat lock unlocking device** ITTO20020002 2001-01-10 HONDA MOTOR* 2002-01-03 2002-01-03

PROBLEM TO BE SOLVED: To provide a seat lock unlocking device whose seat lock unlocking operability is enhanced in simple constitution. **SOLUTION:** This seat lock unlocking device 84 can unlock a seat lock by operating a key 129 with a cable member 85 extended from a seat lock for locking the seat of a motorcycle and the tip of the cable member 85 connected to a displacement member 125 which is displaced by key operation. The seat lock unlocking device 84 is constituted such that the displacement member 125 is incorporated in an ignition key cylinder 41, which is provided with a seat lock unlocking position between an ON position and an OFF position. When the key 129 is aligned with the seat lock position and is pressed into the seat lock unlocking position, the displacement member 125 is displaced in the direction to unlock the seat lock, resulting in pulling the cable member 85.



18. **Lock** EP1739257 2005-06-17 WINKHAUS FA AUGUST* 2007-01-03 2007-01-03

The lock has an adjusting mechanism (27) with an inner interlock (26) connected with a key cylinder plunger (13) and controlling load transmission selectively to one of two pusher half nuts. A control unit is formed for selective locking of the inner interlock in a withdrawn position or for releasing the movement of the inner interlock. A catch (10) is aligned selectively in a direction or in opposite direction.



19. Low-power consumption
electromechanical antitheft warning trick
lock

CN1673479

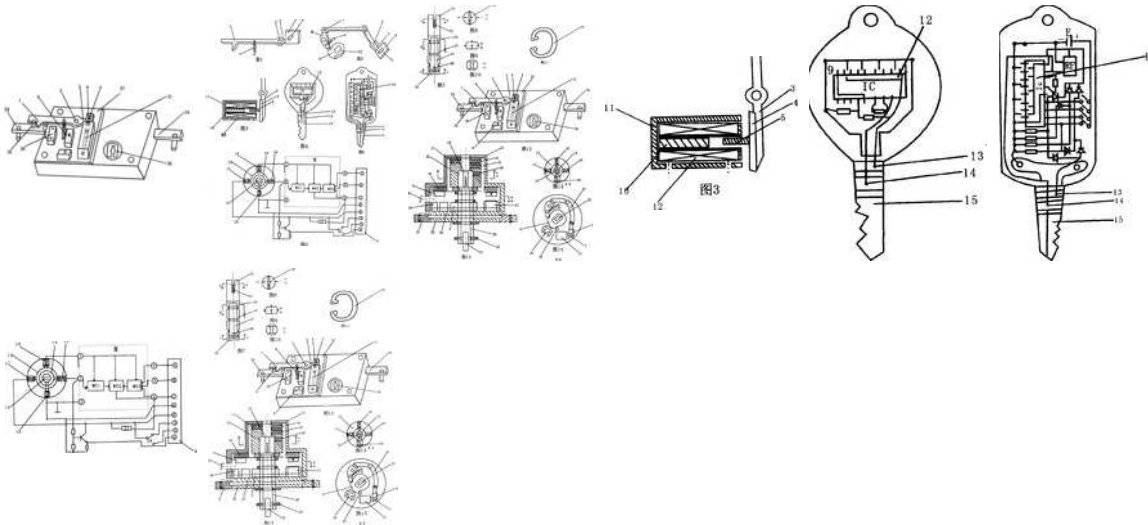
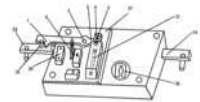
2004-03-26

XIA JUEYU

2005-09-28

2005-09-28

Electronic cipher controller is added to available various kinds of mechanical ball **lock**. In the key and the **lock**, matched codec chip and information I/One unit are mounted separately, the electronic cipher controls the electromagnet and electromagnetic lever assembly, and the lever assembly performs prior control on the executing mechanism of the **lock**, so that only when the electronic cipher unit is in unlocking state, can the mechanical **lock** execute the unlocking program. During locking, the electronic cipher unit is powered off and this results in lowered power consumption and raised safety. The mechanical ball and the electronic cipher may be used simultaneously or alone, and one remote controller may be connected for secondary enciphering. The present invention may be used in where high safety is needed.



20. Mechanical logic device and mechanical
theftproof apparatus using mechanical
logic device

CN1896902

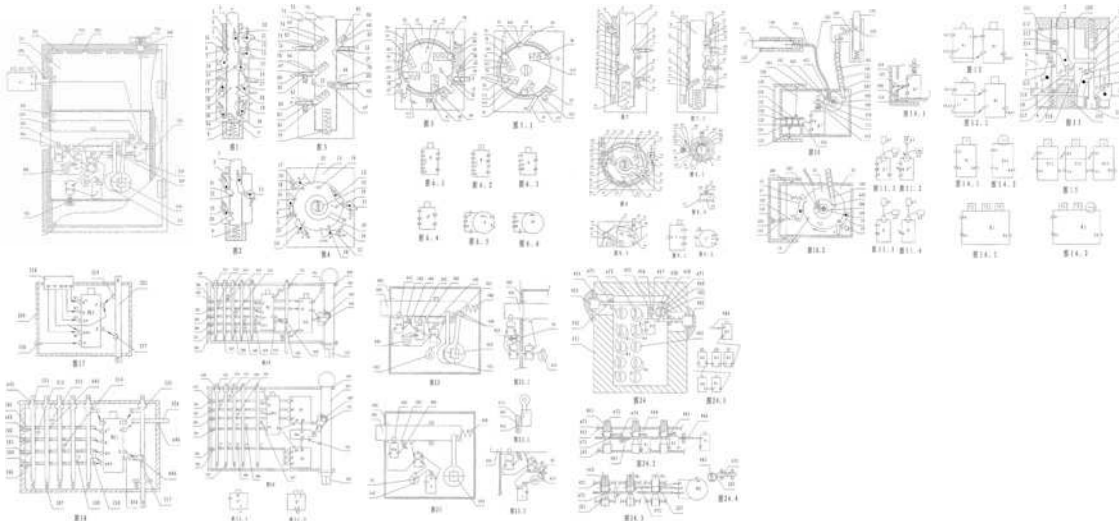
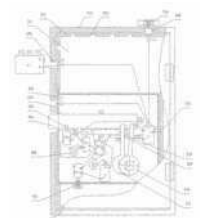
2005-07-12

GAO XIANG;GAO ZHUYU;GAO ZIZHEN

2007-01-17

2007-01-17

A mechanical logic device is a device with double positions. A columnar move component is set in the casing of the device. **Spring** components and columnar **pins** are set on the move component and constitute a **cylinder** structure with the move component. The device also comprises a locking mechanism, a restoration mechanism and a force output mechanism. The force input of the locking mechanism and the restoration mechanism has a certain logic relation with the state of the **cylinder** and the force output. The locking mechanism is an external locking mechanism or an external locating locking mechanism. The external locking mechanism controls locking by external force and the locking mechanism is un-locking state when external force is disappeared. The external locating locking mechanism is located in un-locking position or locking position by external force. The locking mechanism may be one or many external locking mechanisms or external locating locking mechanisms, or different kinds of locking mechanisms and self-returning locking mechanisms are set on the same device with double positions. The different kinds of locking mechanisms may also be set as many positions so that a device with many positions or a device with mixed double positions is formed.



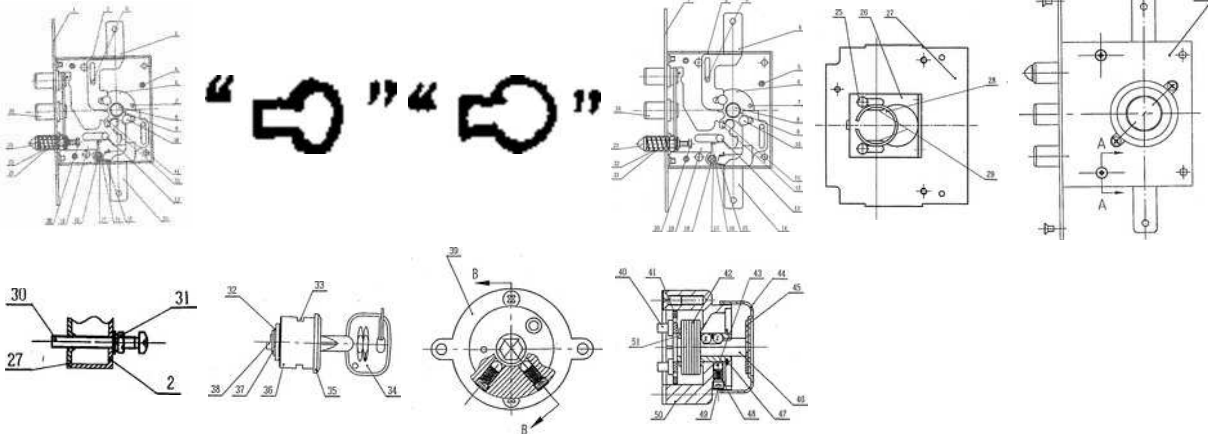
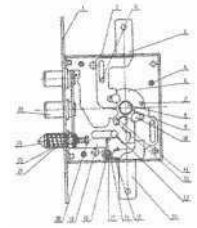
21. Three-way plugging automatic anti-theft door lock CN2462041

2001-01-10

SHI YONGGENG

2001-11-28 2001-11-28

The utility model relates to a three-way insertion core type automatic theftproof door **lock**, which is composed of a **lock** body component, a **lock** head component, and a handle component. The **lock** body component in an insertion core type structure is arranged in a door frame; two **lock** tongues, a touching tongue, an upper sliding **plate**, and a lower sliding **plate** on a driving tongue **plate** are driven to carry out three-way locking by a transmission mechanism in a **lock** body by the method of operating the **lock** head component or the handle component. The state locking can be achieved by a locking mechanism, so the inside-guard-outside locking function and the outside-guard-inside locking function can be achieved. The **lock** carry out the improved design to the transmission mechanism, causing the **lock** besides to have the characteristics of the prizing proof function, the drilling proof function, the torsion proof function, and to have the advantages of simple structure, low cost, etc. The utility model is a novel theftproof production which is welcomed by users in existing locksets.



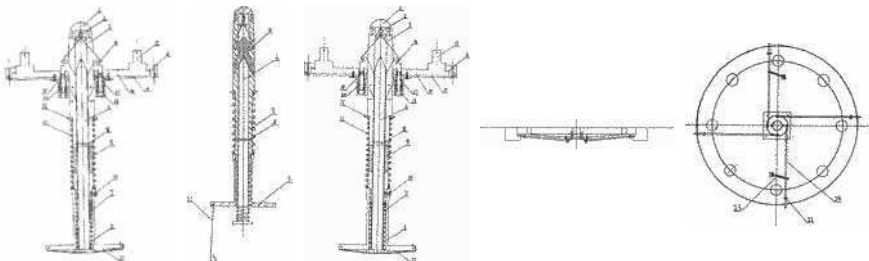
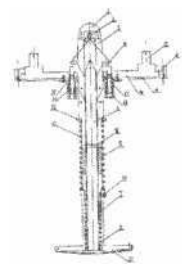
22. Multipurpose hidden anti-theft lock CN1587619

2004-09-27

Zhu Jie

2005-03-02 2005-03-02

The invention relates to a kind of the multiuse and recessive anti-theft locking device, which suits most for the **guarding** against theft of the wall lids. It mainly includes **lock**-opening device, **lock** dish, **lock** bolt. The characteristic of the invention is that it can be fixed after little process to the existing well lid, and it performs good in **guarding** against theft, hard to be robbed or destroyed, meanwhile it avoided the flexible problem of the well lid. Besides, it has effective performance in waterproof and dustproof, and is easy to be fixed. The invention is applied extensively in the city to the well lid of telecommunication, hydrant, up and down drainage pipeline, and can also be used in industry safe, gold cabinet, fice and burglarly-resisting door of the house, etc. It is really and indeal multiuse anti-theft locking device.



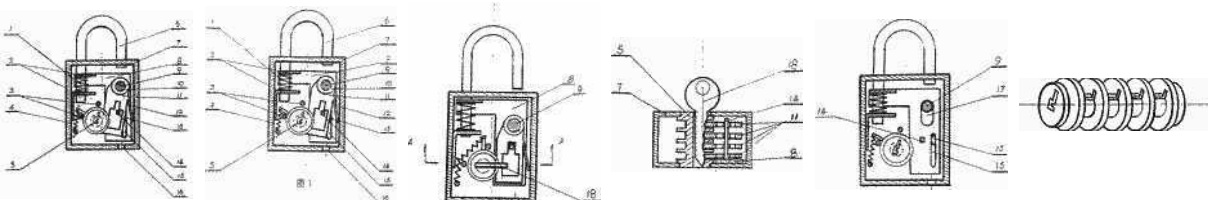
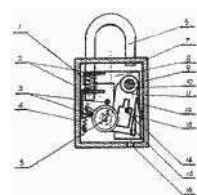
23. Pinless lock CN2533212

2001-12-29

WANG GUANGLONG

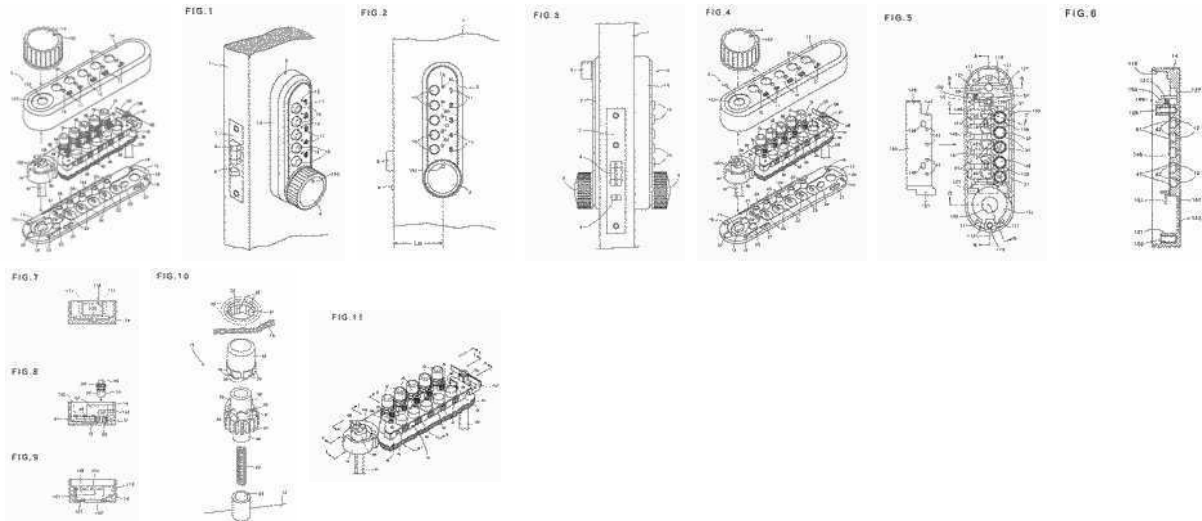
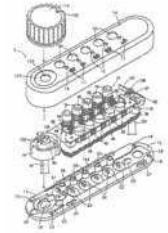
2003-01-29 2003-01-29

The utility model relates to non billiards **lock**, which is suitable for houses and facilities that need protection of the **lock**, in particular to sharp environment, for example street lamp control cabinet and telecommunication distribution cabinet corrupted by dust and rain. The **lock** takes 7'-shaped slider to bring a plurality of swinging pieces that the upper is round and the lower is square and the middle has a protruding groove swinging left and right. The right side of each swinging piece is provided with a leaf **spring**. One end of the swinging piece is fastened the upper part of the swinging piece and the other end of the swinging piece downwards and obliquely supports on the inner wall of the right side of the **lock** case. The left sides of all swinging pieces are corresponding to circular **cylinder** tooth shaped **lock** core grooves. The **lock** overcomes defects that the billiards **lock** is opened difficultly after stuck with dirt and corrosion.



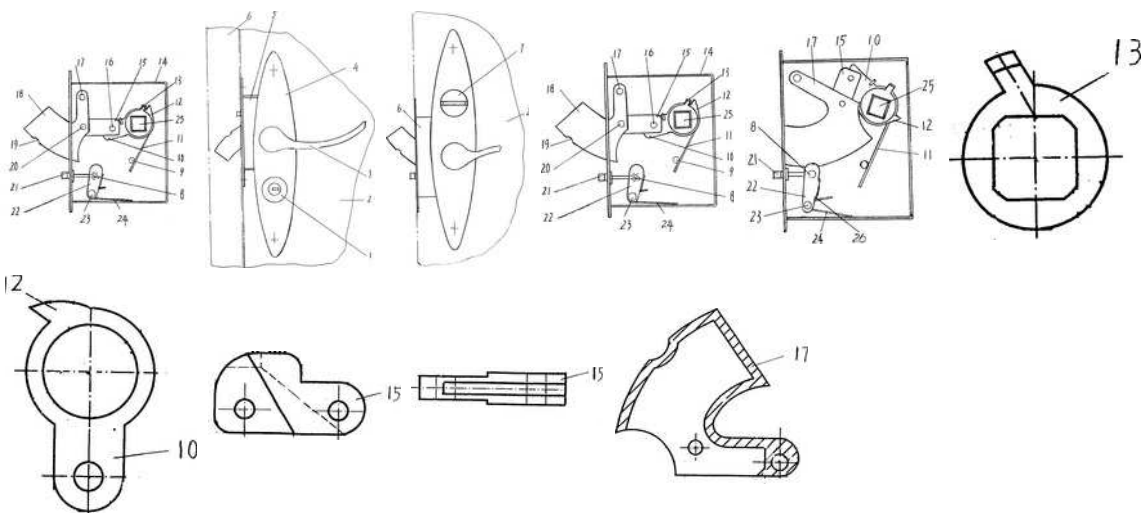
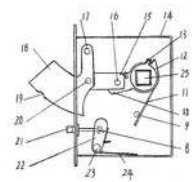
24. **Button lock** WO2004003321 2003-04-08 NAGASAWA MANUFACTURING* 2004-01-08 2004-01-08

There is provided a button-operated **lock** device capable of increasing a setting amount of information in response to operation of a control button, obtaining a large setting amount and a wide-range of selection thereof, enhancing safety performance, simplifying the structure and achieving a small size and a light-weight, thereby achieving a low manufacturing cost, executing such various operations as setting or inputting information and altering thereof correctly, safely, easily and rationally, and preventing decoding or perceiving of preset or inputted information so that any third party is prevented from making a falsification and/or conversion of this device. <??>The button-operated **lock** comprises a plurality of control buttons (10) axially displacedly arranged and capable of setting or inputting a predetermined information; a control **plate** (128) for allowing an unlocking procedure at the time of setting or inputting the predetermined information; a driving cam (16) linked to the control **plate** (128) and capable of being operatively connected to a pair of door handles (4, 5); and a **lock** element linked to the driving cam (16), wherein a plurality of same or different information can be set or inputted to each of the control buttons (10) and the plurality of same or different information can be set or inputted every time the control button (10) is operated. <IMAGE>



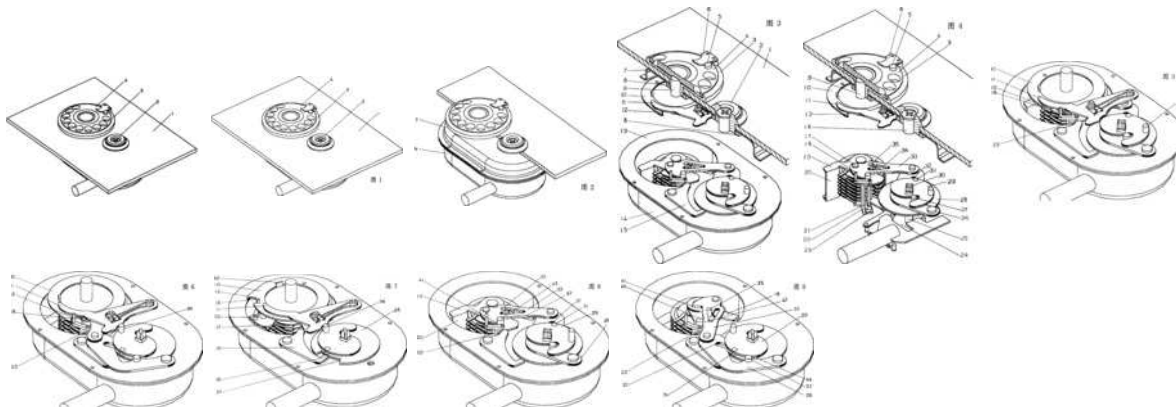
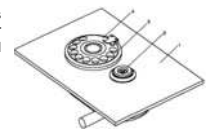
25. **Anti-picking copper cylinder inserted handle lock** CN2526410 2002-01-23 ZHAO JIALAI 2002-12-18 2002-12-18

The utility model discloses an anti-picking copper **cylinder** inserted handle **lock**, comprising a **lock** main body, a **lock cylinder**, a **lock bolt**, a handle, a transmission rod and a manual safety handle. The utility model is characterized in that the upper part of the **lock** main body is provided with an anti-picking bend bolt; a contact bolt which automatically inserts the bend bolt into the door frame **lock bolt** hole after the door is opened is arranged below the bent bolt; the bend bolt takes a sector shape, and the lower sector arc surface of the bend bolt is provided with an incomplete column type groove which is used for positioning the end of the transmission arm of the contact bolt; the upper part of the bend bolt is articulately connected with the shell through a **pin** shaft; the middle part of the bend bolt is articulately connected with one end of the transmission **plate** through a **pin** shaft, while the other end of the transmission **plate** is articulately connected with the transmission arm through a **pin** shaft; a rotating **plate** hole is arranged on the sleeve of the handle transmission rod; and a pulling claw is arranged around the rotating **plate**. The utility model has the advantages that the contact bolt can automatically insert the bend bolt inside the bolt hole of the door frame when the door is opened, and locks the door by rotating the key or the manual switch safety handle. The utility model is suitable to be used in houses, hotels and offices.



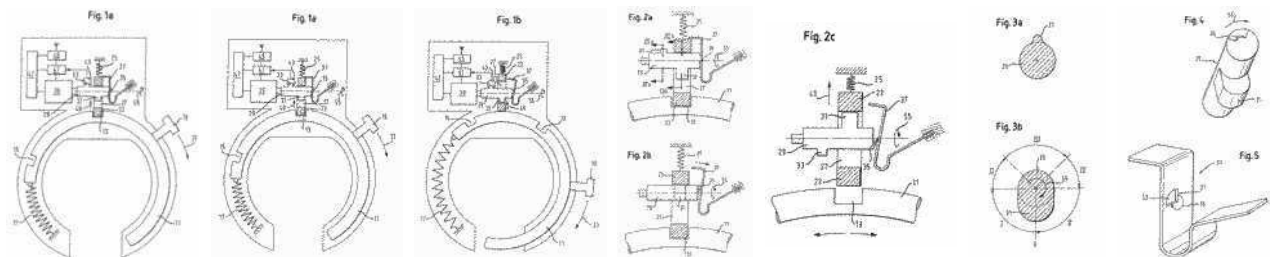
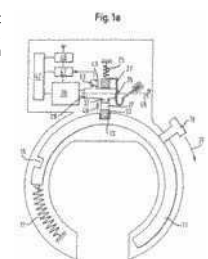
26. Mechanical cipher lock CN1441139 2002-02-25 MA XUEWEN 2003-09-10 2003-09-10

The mechanical cipher lock used for safe mainly at present consists of dial with finger hole, sequential dialing mechanism driven by the dial, several independent coded disks with dialing lug driven by the sequential dialing mechanism, coded disk returning mechanism and repositioning unit, latch mechanism and interlocking mechanism. Its cipher may be input via dials in the same direction, and is thus easy to use and its cipher is easy to memory. When combined coded disk with changeable cipher is used, the practical cipher key number is not smaller than the theoretical amount.



27. Lock DE102005041269 2005-08-31 ABUS* ABUS AUGUST BREMICKER SOEHNE 2007-03-01 2007-03-01

Lock comprises a closing device (11), a bolt (23) which moves between a locking position and an unlocking position, a blocking device (37) for blocking the bolt against movement in the direction of the unlocking position and a rotating device (29) having first control section (35) which interact directly or indirectly with the blocking device. Preferred Features: The blocking device is pre-tensioned in the direction of the blocking position. The blocking device holds the bolt when the blocking device blocks the bolt in the locking position.



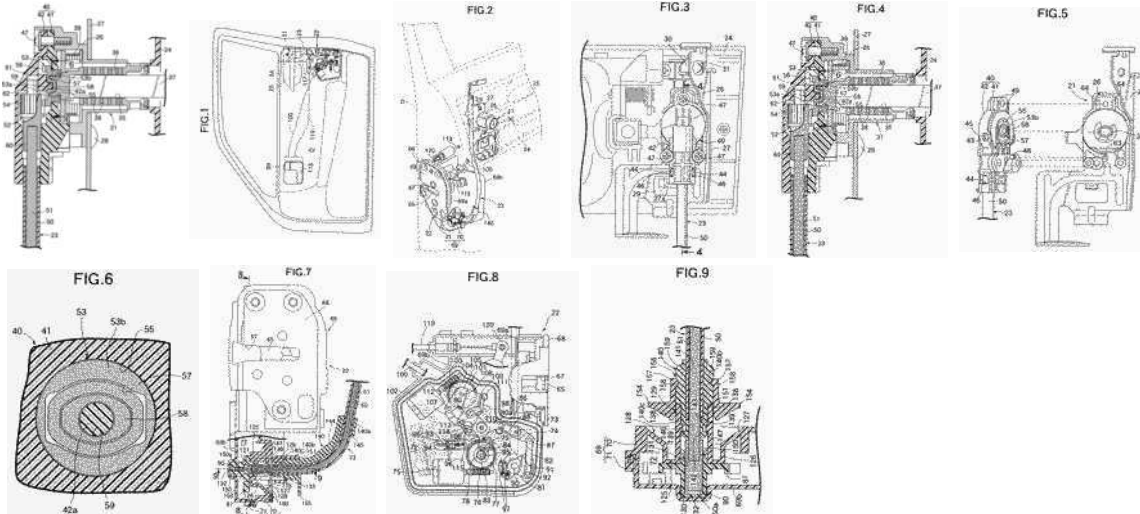
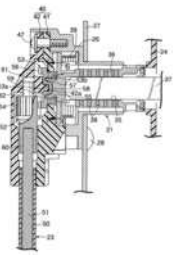
28. Apparatus for locking and unlocking vehicle door CN1696465

2004-05-10

HONDA LOCK*
HONDA MOTOR*

2005-11-16 2005-11-16

An apparatus for locking and unlocking a vehicle door includes a **cylinder lock** (21) having a rotor (36), a door **lock** mechanism including a key operation input shaft which rotates to switch a locked state and an unlocked state of a door, and a torque cable (23) for transmitting rotation of the rotor (36) to the key operation input shaft. One end of the torque cable is connected to the rotor via a gear transmission mechanism accommodated in a gear case (40). The gear transmission mechanism is constructed by a face gear (53) coaxially connected to the rotor (36), and a **pinion** gear (54) which has an axial line perpendicular to an axial line of the face gear (53), is connected to the torque cable (23), and is meshed with the face gear (53). The **pinion** gear (54) is accommodated in the gear case (40) to be capable of being displaced in an axial direction in a limited range while keeping a meshed state with the face gear (53). Therefore, even if a variation occurs to the mounting position of the **cylinder lock** (21) and the door **lock** mechanism to the door, reduction in the ease of assembling the torque cable (23) to the door **lock** mechanism can be avoided.



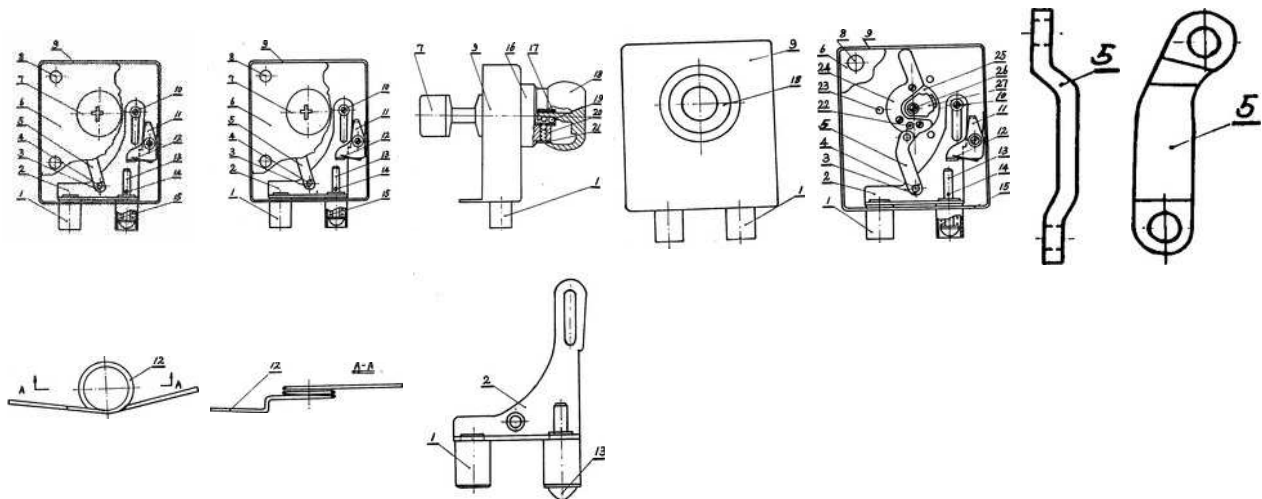
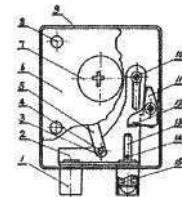
29. Two barrels automatic lock used for steel door or wood door CN2495755

2001-08-14

OLD CITY LOCK FACTORY*

2002-06-19 2002-06-19

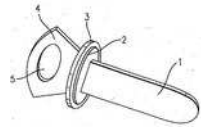
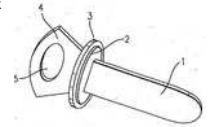
The utility model relates to a double-purpose double-post automatic **lock** used for a steel door and a wood door, which is provided with a **lock** shell, a handle, a **lock** core, a back cover **plate**, a ratchet and **latch** bolts, wherein at least one **latch** bolt is provided with a striking rod which can make the **latch** bolt automatically returned; **guard** sheets of the ratchet are on a travelling line of the striking rod; the **latch** bolt is fixed on a **latch** bolt **plate**; a connecting rod which is allocated by elastic force keeps the expanding shape of the connecting rod; the striking rod is limited in the hollow **latch** bolt through a **spring** and a spacing **pin**; when the **latch** bolt lies in a retract state, and the end head of the **latch** bolt is projected out of the end surface of the **latch** bolt. When a door is opened, the **latch** bolt is twisted to retract by a key or the handle, and the **latch** bolt is clamped by the ratchet; when the door is closed, a **lock** catch box strikes the striking rod, the ratchet is pushed away, and the **latch** bolt springs automatically and can not be pushed back. The **lock** has the advantages of shift resistance, saw resistance, pry resistance, free motion, low cost and small size, and can be suitable for steel doors and wood doors.



30. Device serving for prevention of freeze up DE10114388 2001-03-22 DRYZGA HERBERT 2001-10-18 2001-10-18

of motor vehicle locks comprises a **pin** or blade shaped section insertable into the **lock**, a **plate** for covering of the **lock** face, and a **grip**

The device serving for prevention of freeze up of motor vehicle locks comprises a **pin** or blade shaped section (1) insertable into the **lock**, a **plate** (3) for covering of the **lock** face, and a **grip** (4).

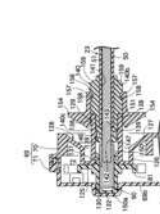
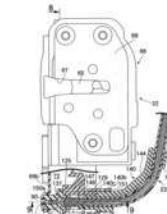
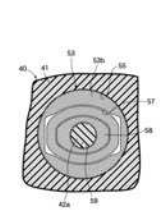
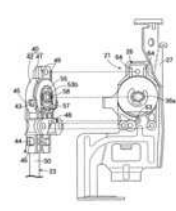
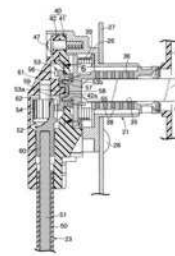
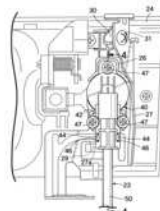
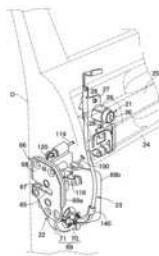
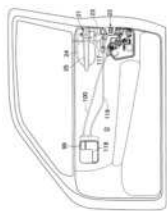
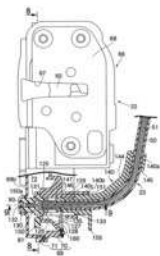
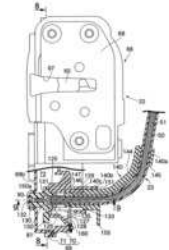


31. Door opening and closing device for vehicle CN1696464 2004-05-10 HONDA LOCK* HONDA MOTOR* 2005-11-16 2005-11-16

PROBLEM TO BE SOLVED: To provide a door opening and closing device for a vehicle constituted in such a way that an inner cable whose one end is connected with a rotor so as to perform twist operation in accordance with turn of the rotor and whose other end is connected with a key operation input shaft is inserted into an outer casing whose both ends are connected with a **cylinder lock** and a door **lock** mechanism to make improper operation of the key operation input shaft difficult even if a connection condition in which the outer casing is connected with the door **lock** mechanism is unexpectedly released.

SOLUTION: In a casing 66 provided in the door **lock** mechanism 22, a fitting **cylindrical** part 129 for fitting a fitting **cylindrical** part 140c provided in an end part on a door **lock** mechanism 22 side of the outer casing 50 and connecting it with the casing 66 is integrally provided by letting an end part of the key operation input shaft 90 face an inner end, and an insertion prevention member 160 capable of being displaced so as to plunge into the fitting **cylindrical** part 129 in accordance with separation and disengagement of the fitting **cylindrical** part 140c from the fitting **cylindrical** part 129 is attached.

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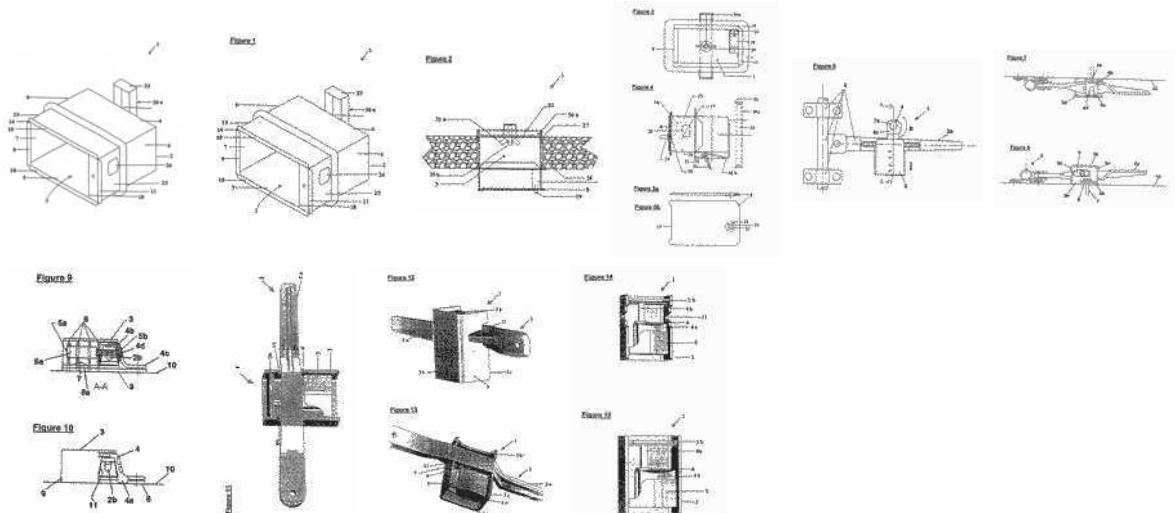
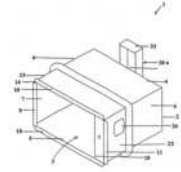
32. Improvements in and relating to security means WO2005027700

2004-09-20

WAYNE ACE KIRKER;WAYNE LIONEL ACE - KIRKER;WAYNE LIONEL ACE KIRKER;Wayne Lionel Ace-Kirker (I);Wayne. L. Aspen - Kirk

2005-03-31 2005-03-31

A method of bracing a security container relative to the structural features of a building in a substantially tamper-proof manner wherein said security container including at least one container means (2) having an interior (3) for storing valuables therein, said container means (2) having at least one opening (7) therein, a closure means (8) covering said at least one opening (7) into the container means (2), and locking means (16) to secure the closure means (8) over the opening (7), said security container being configured to be fitted into a recess within a surface and the security container further including retention means, said retention means including bracing means (30a), said bracing means (30a) characterised by effecting a brace relative to one or more permanent structural features associated with the surface to impede forced removal of the security container from said recess.



33. Lock for inspection well cover

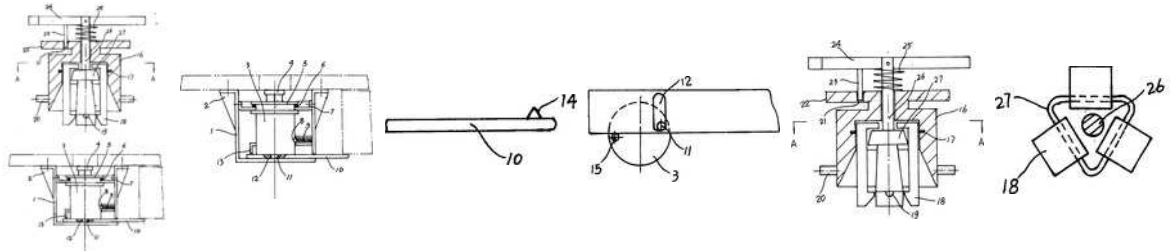
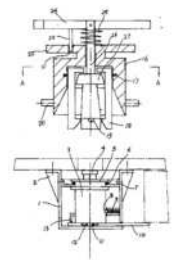
CN2775231

2005-04-08

FENG BAOMING

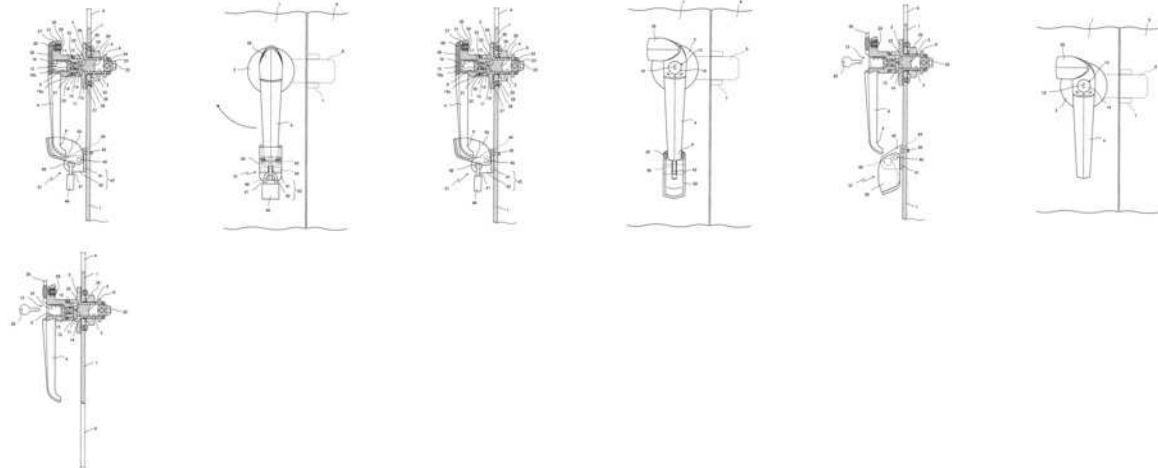
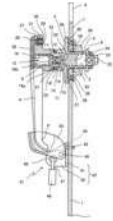
2006-04-26 2006-04-26

The utility model discloses a lock for a well cover, which comprises a lock body and a key thereof, wherein a center pin is arranged in a casing. A spacing position is assembled through a sealing cover. The upper part and the lower part of the center pin are respectively provided with a lock core and a shifting pin which are movably connected through the shifting pin and a lock tongue, and a key which is inserted into the lock core. The key is connected with a center shaft with a shoulder through a lifting handle, and the center shaft is provided with a sleeve tube with a pressing handle. The center shaft between both bodies is provided with a spring. The shoulder which is positioned in the sleeve tube is provided with free pawls. The inner wall of the sleeve tube which is corresponding to the free pawls is provided with pawl supporting springs. The lock set can avoid imitation effectively. The lock body is not easy to rust. The utility model which is an ideal antitheft lock for the well cover has the advantage of high safety, and can enhance the antitheft ability of the well cover.



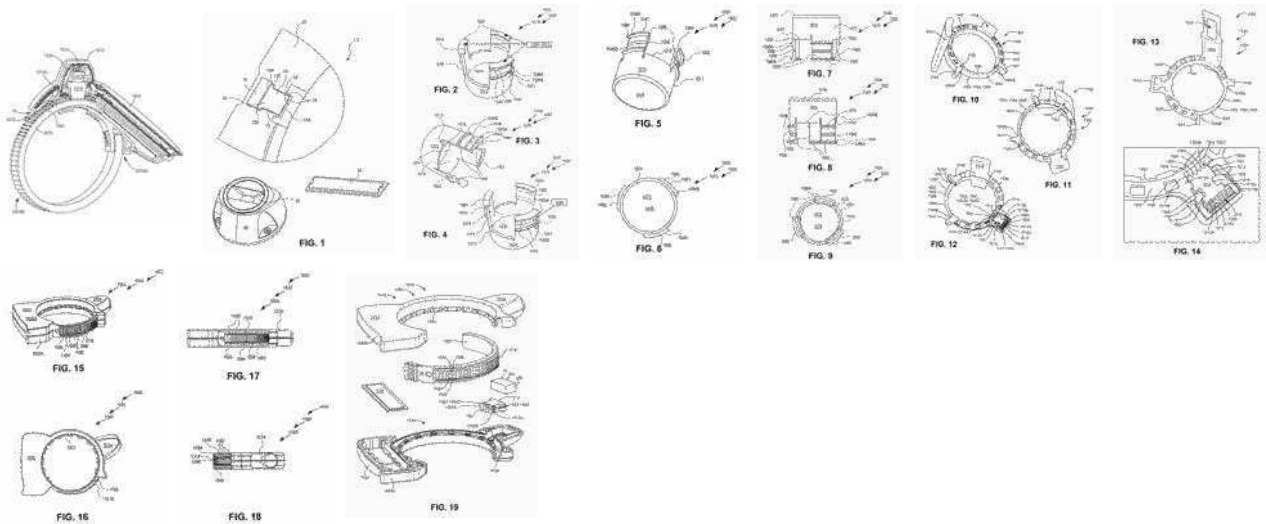
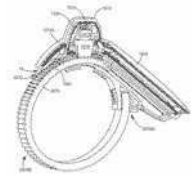
34. Door handle locking device TW200600655 2004-06-30 TAKIGEN MANUFACTURING* 2006-01-01 2006-01-01

PROBLEM TO BE SOLVED: To provide a door handle locking device for preventing unlocking or lock breakage by precluding the movement of rotating a handle.
SOLUTION: In order to keep a lock plate in the condition of firmly locking the handle to a fixed frame, a stopper part precludes the rotation of the handle and a lock holds the stopper part in the condition of precluding it.
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35. Security device with magnetically actuable locking mechanism WO2006063265 2005-12-07 SENSORMATIC ELECTRONICS* 2006-06-15 2006-06-15

Systems and apparatuses for a magnetically actuable locking mechanism and a security device having a magnetically actuable locking mechanism are disclosed.

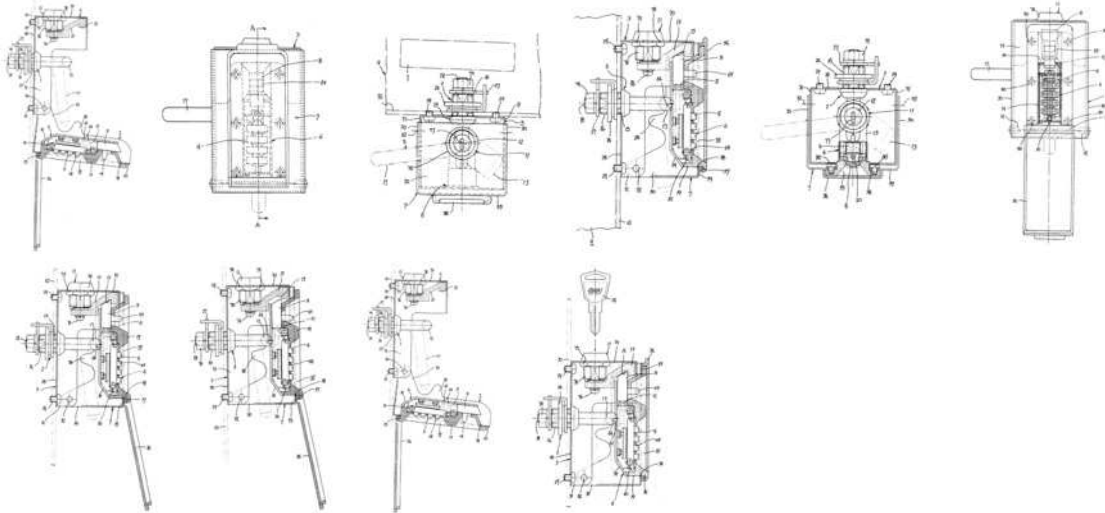
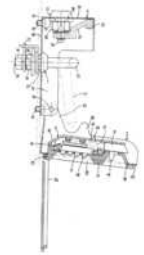


36. Device for managing start of service of equipment JP2004278018 2003-03-12 TAKIGEN MANUFACTURING* 2004-10-07 2004-10-07

PROBLEM TO BE SOLVED: To provide a management device which enables the start of service of many pieces of equipment installed in a wide area to be simply managed in such a manner that personnel costs are made lower.

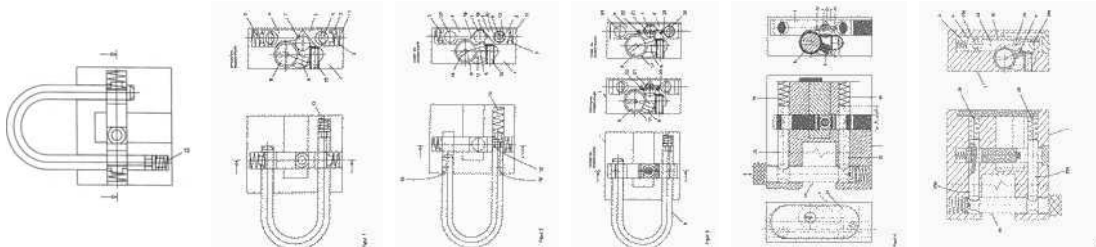
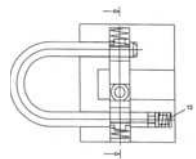
SOLUTION: This management device is composed of a base member 3 which surrounds an operating member 2 of equipment 1, a **guard** member 7 which is coupled to the base member 3 and which enables the operating member 2 to be handled in an opening position, and a **latch** member 8 which is engaged with a step part 15 on the side of the base member 3 when the **guard** member 7 is in a closing position, so that the **guard** member 7 can be unopenably locked. A slide **plate** 21 of a code matching **lock** 6, which is mounted on the **guard** member 7, abuts on the **latch** member 8. An unlocking code string of the **lock** 6 is allocated as a personal identification number in each piece of equipment 1; before the start of the service of the equipment 1, the personal identification number is transmitted from a manager to a person vested with legitimate use authority in accordance with a use notice from the person vested with the legitimate use authority; and the person vested with the legitimate use authority performs an unlocking operation for the **lock** 6 according to the personal identification number, so as to open the **guard** member 7.

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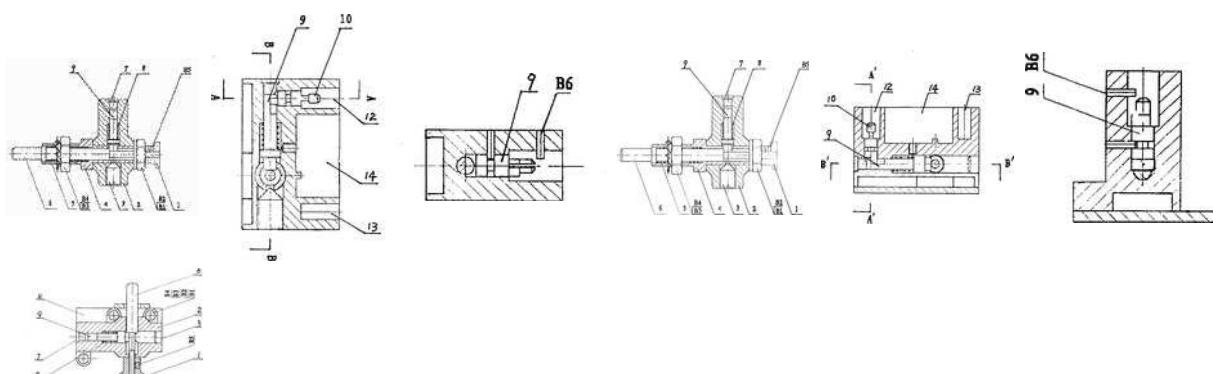
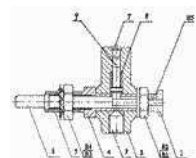
37. Padlock WO2006032416 2005-06-10 INSURANCE LOCKS ISEO DEUTSCHLAND SCHLOSSSICHERUNGEN GERA* SCHLOSSSICHERUNGEN GERA 2006-03-30 2006-03-30

The invention relates to a padlock consisting of a **lock** casing body and a **lock** shackle, the ends of said shackle being received in recesses in the **lock** casing body. A first shackle end comprises a return gap for blocking the movement of the shackle in the locked state, and a second shackle end comprises a groove for defining the movement of the shackle in the opened state. Furthermore, an inwardly extending recess oriented parallel to the shackle ends and used to receive an entire standard locking **cylinder**, especially a standard half locking **cylinder**, is provided in the bottom region of the **lock** casing body, opposing the **lock** shackle. According to the invention, a displaceable and/or pivotable actuating element is provided in the displacement path of the **lock** bit of the standard locking **cylinder**. A first displacement part and a second displacement part are arranged inside a borehole used as a guide or a recess of the **lock** casing body, essentially perpendicularly to the longitudinal axis of the standard locking **cylinder** and adjacent to the same. The facing inner ends of the displacement parts are each provided with a bevel in such a way that, when the actuating element is displaced in relation to the **lock** bit, it hits the bevels, converting the **lock** bit pivoting movement into a longitudinal movement of the displacement parts. Furthermore, a blocking return gap is provided in the second shackle end of the **lock** shackle, opposing the return gap in the first shackle end. The first and second displacement parts respectively comprise a recess on the ends thereof opposing the bevels, said recesses corresponding to the dimensions of the respective shackle end. The displacement parts are elastically prestressed in the direction of the bevels, and when the **lock** bit is located at a distance from the actuating element, the actuating element releases the bevels such that the respective displacement parts can engage, in the region of the recesses thereof, in the respective blocking return gaps of the shackle ends.



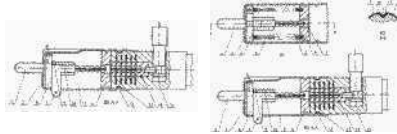
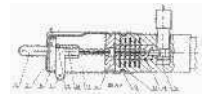
38. Mechanical fixed permutation lock CN2487827 2001-06-08 ZHUHAI CITY TO CREATE A* 2002-04-24 2002-04-24

A mechanical fixed coding **lock** comprises a **lock** body, wherein a **lock** head groove and a choke plug groove of intersecting vertically and communicated with each other are arranged inside the **lock** body. A **lock** head member and a choke plug member are arranged inside the grooves. The **lock** body is provided with a coding sheet hole, a big electrode hole and a small electrode hole, wherein the axle direction of each hole is vertical to the axle direction of the **lock** head. A **lock** twist is arranged inside the electrode hole. The utility model adopts the fixed way to mount the lockset and has the advantages of good arts, high reliability, clear positioning with device, simple and convenient operation and maintenance; therefore, the mechanical fixed coding **lock** is applicable to five-guard closed **lock** in transformer substation of any scale.



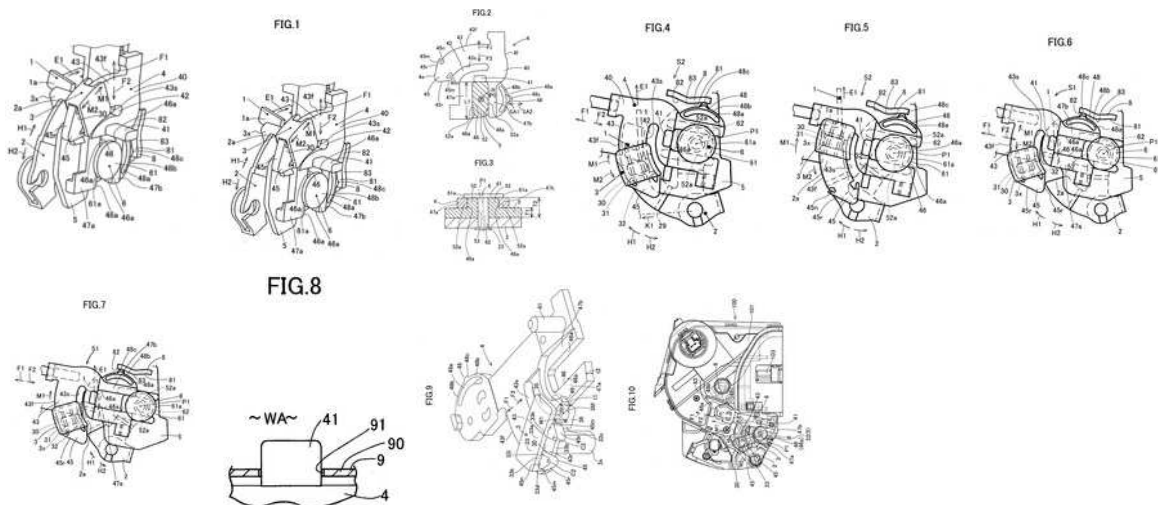
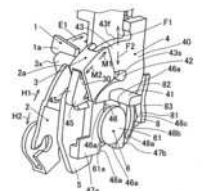
39. [Lock set with protective cover](#) CN2687246 2004-04-07 YU GUANGFU 2005-03-23 2005-03-23

The utility model discloses a **lock** with a protective cover, comprising a **lock head**, a **lock core**, and a shell body for hiding the **lock core**. The shell body and the **lock head** can relatively rotate, but can not be disassembled to be connected. A key holder which is directionally mounted and matched with a key and is provided with a control push rod is arranged inside the shell body with a key slot. The key holder can axially move relative to the shell body, but has no rotating connection. The **lock** with the protective cover also comprises a **spring** which makes the key holder reset, etc. When the **lock** is needed to be opened, the special purpose-made key is directionally mounted inside the key holder, and the key holder with the control push rod drives the key to enter a **lock core hole** along the shell body, then, the shell body is deasil rotated, and the **lock** is opened. The key holder is withdrawn under the action of the **spring**, and the key can be disassembled. The design of the **lock** with the protective cover has artful conceiving, and reasonable structure. The firm shell body of the protective cover is difficult to be destroyed, which further enhances the integral anti-theft performance of the **lock**. The **lock** with the protective cover increases a new breed for anti-theft **lock** products.



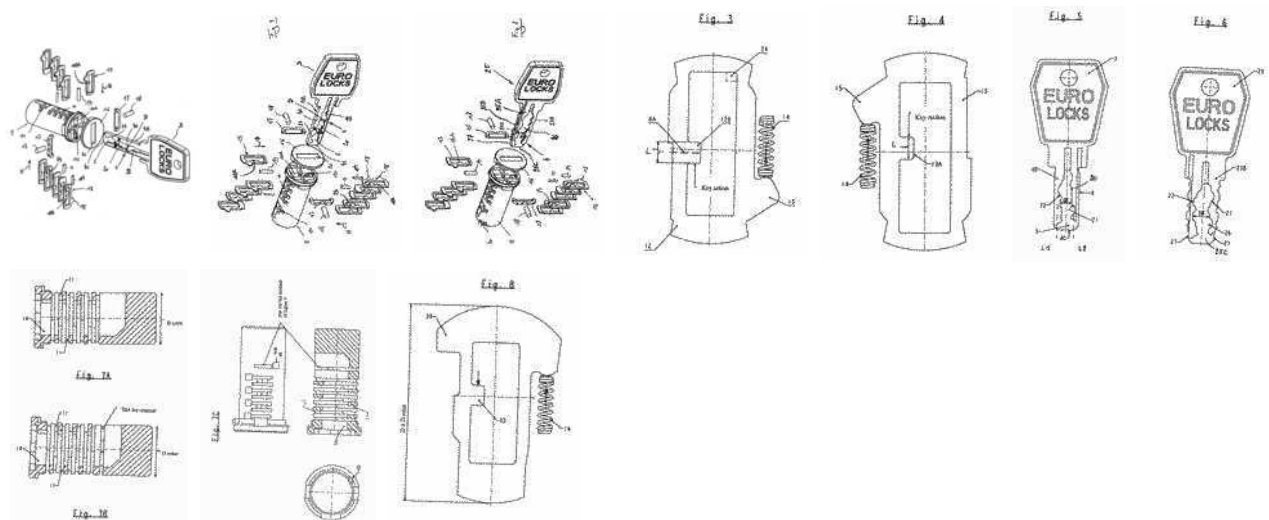
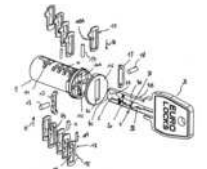
40. [Child protecting doorlock device](#) WO2006054759 2005-10-18 AISIN KIKO* AISIN SEIKI* 2006-05-26 2006-05-26

A door-**lock** child protecting device capable of preventing a child in a vehicle from opening a door is reduced in size. This device includes an open member (1) being movable in a direction of releasing a door **lock**, an inside lever (2) for being actuated by an input from an inside handle, a movable operating member (3) for moving the open member (1) in the direction of releasing the door **lock**, a child protecting member (4) capable of being switched by an operation of an operating portion (41) between a set position to execute child protection and an unset position not to execute child protection, and a base (5). The child protecting member (4) is rectilinearly movable between the set position (S1) and the unset position (S2) and inhibited from being rotated with respect to the base (5).



41. [Rotor and keys for a locking device, the locking device equipped with such a rotor and keys, and the use thereof](#) GB0512738 2004-06-30 EURO LOCKS EURO LOCKS S A* 2005-07-27 2005-07-27

Rotor for a rotor-type locking device operated by a key, said rotor presenting: a central chamber; a series of slots; locking tumblers with nib, in which at least one tumbler is brought into the unlocked position by a displacement in a direction different from the unlocking direction of at least two other tumblers, the nibs of said tumblers extending along a same face of the chamber.



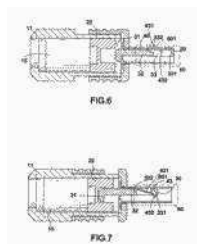
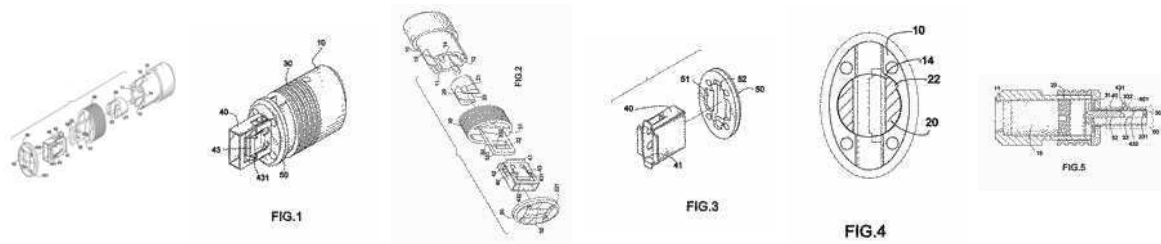
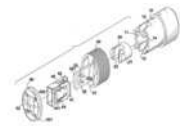
42. Connector **lock** for a universal serial bus JP3106529

2004-03-12

JIN TAY INDUSTRIES*
JIN TAY INDUSTRY
KIM TAE INDUSTRIAL

2005-01-06 2005-01-06

The connector **lock** for a USB port has a tubular body, a rotatably limit, a **lock** activator, a plug and a faceplate. Aligning a rotating diametric recess in the rotatable limit with a stationary diametric recess formed in the proximal end of the tubular body allows the tubular **lock** activator to slide on the tubular body and unlock the connector **lock** from a USB port. Then the connector **lock** can be removed from the USB port so the USB port can be used.



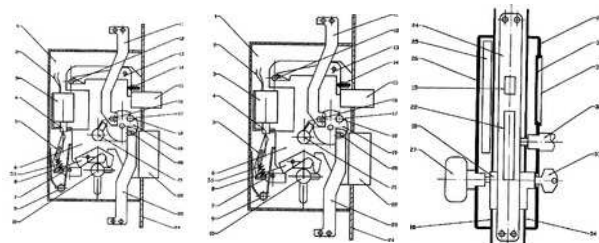
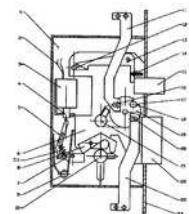
43. Mechanical and electronic two-purpose theft-proof door **lock** CN2464856

2001-01-19

LUO BAODE

2001-12-12 2001-12-12

The utility model relates to a mechanical and electronic two-purpose theft-proof door **lock**, comprising a master control board, a **lock** core, a **lock** shell, an internal handle and an external handle, wherein, the master control board is connected with a **lock** tongue, an upper draw board and a lower draw board, the **lock** shell is connected with an internal protective board and an external protective board, and the inner part of the **lock** shell is provided with a relay; a movable iron core of the relay is used as a block of the master control board and is connected with the **lock** core through an upper driving rod, a lower driving rod and a push rod, a tension **spring** is arranged between the lower driving rod and the push rod, and the external protective board is provided with a keyboard to control the relay. The utility model has the advantages of good anti-prizing performance and simple and compact structure, and can be both used by the children carrying a key inconveniently and the old with bad memory.



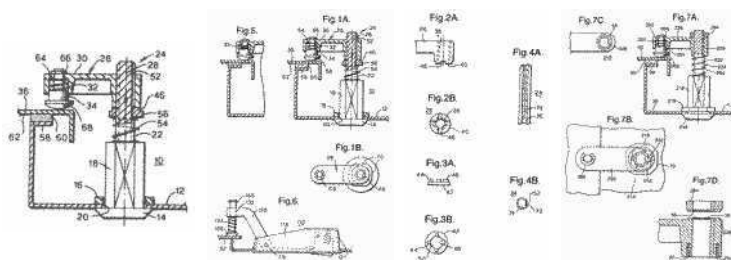
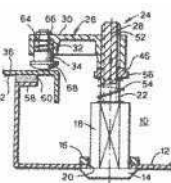
44. Lock with a tolerance compensating device for rotating and tilting bolts DE202004003707

2004-03-10

Dieter Ramsauer
RAMSAUER DIETER*

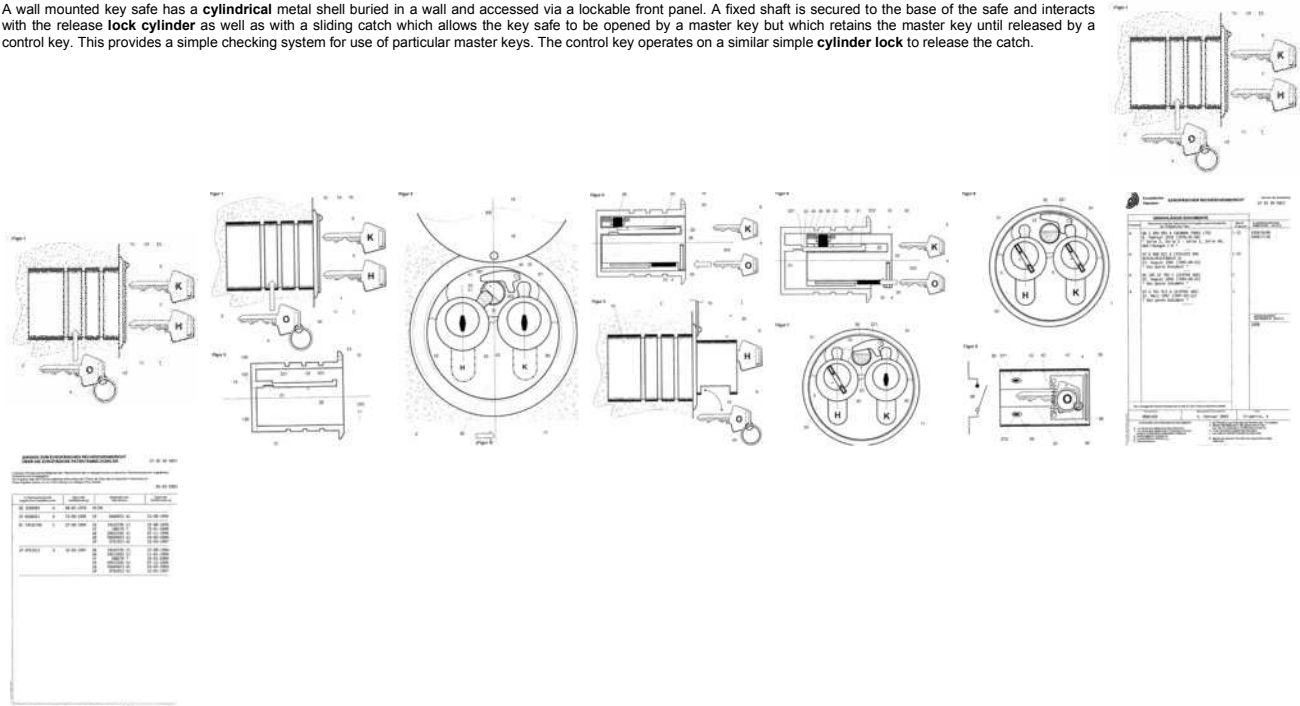
2005-07-28 2005-07-28

The invention relates to a tolerance compensating device for rotating and tilting bolts. More particularly, the invention relates to a tolerance compensating device for non winding tongues, i.e. for tractive/rotating bolts or tilting bolts in locks which can be mounted in thin walls such as sheet-metal cabinets with a frame and a door. The **lock** comprises a housing which maintains a tractive/rotating bolt in an axially displaceable and rotational state, or a housing which accommodates a tilting bolt, wherein the bolt is provided with a bore (32, 132) in the vicinity of the free end thereof, wherein a rear engaging device is displaceably maintained perpendicular to the plane of rear engagement. According to the invention, the rear engagement device comprises a **spring** (33, 133) which presses the rear engaging device (68, 188) in the direction of the rear engaging surface (36) when the **lock** (10, 110) is in a closed position.



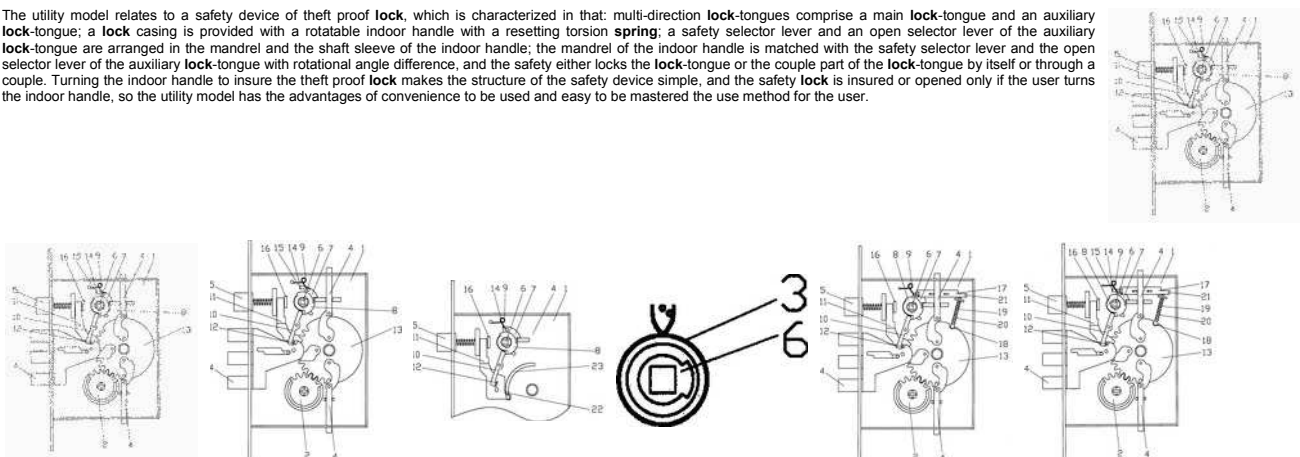
45. Device for a secure storage of a key EP1308586 2001-11-06 KUNZ JUERG 2003-05-07 2003-05-07

A wall mounted key safe has a **cylindrical** metal shell buried in a wall and accessed via a lockable front panel. A fixed shaft is secured to the base of the safe and interacts with the release **lock cylinder** as well as with a sliding catch which allows the key safe to be opened by a master key but which retains the master key until released by a control key. This provides a simple checking system for use of particular master keys. The control key operates on a similar simple **cylinder lock** to release the catch.



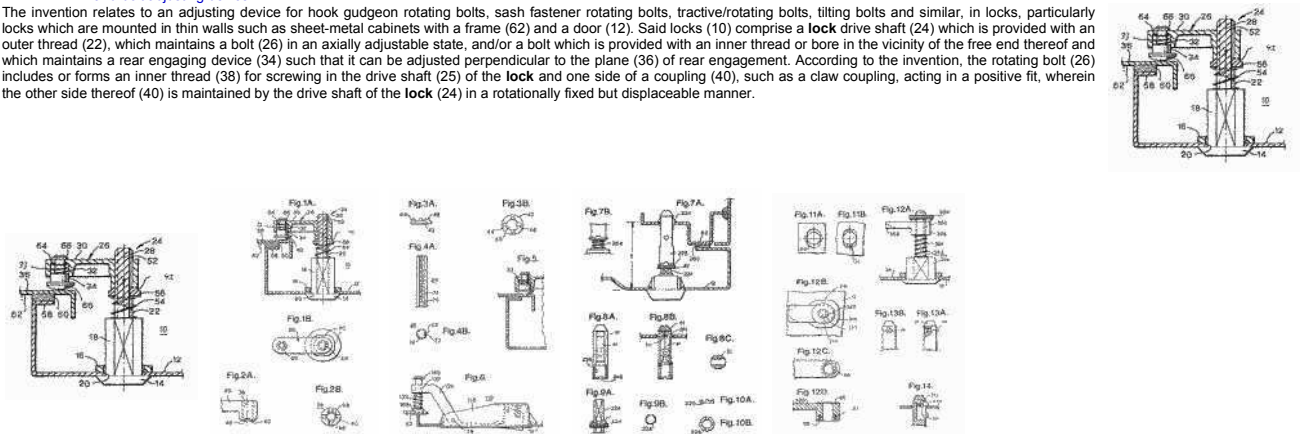
46. Safety device of anti-theft CN2484384 2001-06-25 YING FAGEN 2002-04-03 2002-04-03

The utility model relates to a safety device of theft proof **lock**, which is characterized in that: multi-direction **lock-tongues** comprise a main **lock-tongue** and an auxiliary **lock-tongue**; a **lock casing** is provided with a rotatable indoor handle with a resetting torsion **spring**; a safety selector lever and an open selector lever of the auxiliary **lock-tongue** are arranged in the mandrel and the shaft sleeve of the indoor handle; the mandrel of the indoor handle is matched with the safety selector lever and the open selector lever of the auxiliary **lock-tongue** with rotational angle difference, and the safety either locks the **lock-tongue** or the couple part of the **lock-tongue** by itself or through a couple. Turning the indoor handle to insure the theft proof **lock** makes the structure of the safety device simple, and the safety **lock** is insured or opened only if the user turns the indoor handle, so the utility model has the advantages of convenience to be used and easy to be mastered the use method for the user.



47. Locking device with rotating or tilting bolts DE202004003708 2004-03-10 RAMSAUER DIETER* 2005-07-28 2005-07-28

The invention relates to an adjusting device for hook gudgeon rotating bolts, sash fastener rotating bolts, tractive/rotating bolts, tilting bolts and similar, in locks, particularly locks which are mounted in thin walls such as sheet-metal cabinets with a frame (62) and a door (12). Said locks (10) comprise a **lock drive shaft** (24) which is provided with an outer thread (22), which maintains a bolt (26) in an axially adjustable state, and/or a bolt which is provided with an inner thread or bore in the vicinity of the free end thereof and which maintains a rear engaging device (34) such that it can be adjusted perpendicular to the plane (36) of rear engagement. According to the invention, the rotating bolt (26) includes or forms an inner thread (38) for screwing in the drive shaft (25) of the **lock** and one side of a coupling (40), such as a claw coupling, acting in a positive fit, wherein the other side thereof (40) is maintained by the drive shaft of the **lock** (24) in a rotationally fixed but displaceable manner.



48. Mechanical puzzle lock

CN2531061

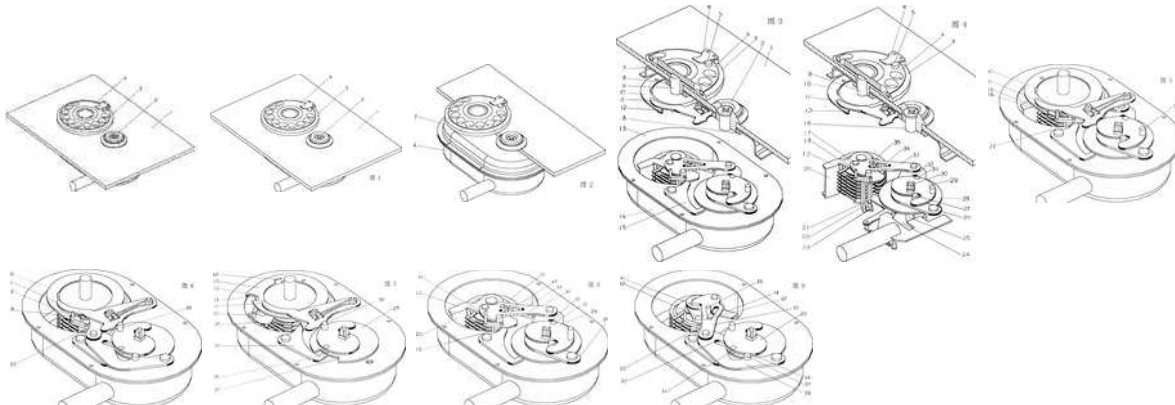
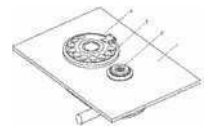
2002-02-25

MA XUEWEN

2003-01-15

2003-01-15

A mechanical code lock is mainly used on theftproof safe boxes and theftproof safe cases, which is mainly composed of an outer dial disc with finger dial holes, a sequential dial code mechanism which can be driven by the outer dial disc, a plurality of independent code discs and code disc reset mechanisms which are respectively independent and are provided with dial ears, a locking mechanism and an error proofing interlock mechanism. The utility model can orderly input the codes by dialing the disc along the same direction, which is provided with convenient using and easy memory of codes. If the utility model adopts a combination code disc with changeable code, the actual changeable key amount of the utility model is not less than the theoretical key amount.



49. Umbrella storage device and umbrella holding lock

WO2004000081

2003-06-23

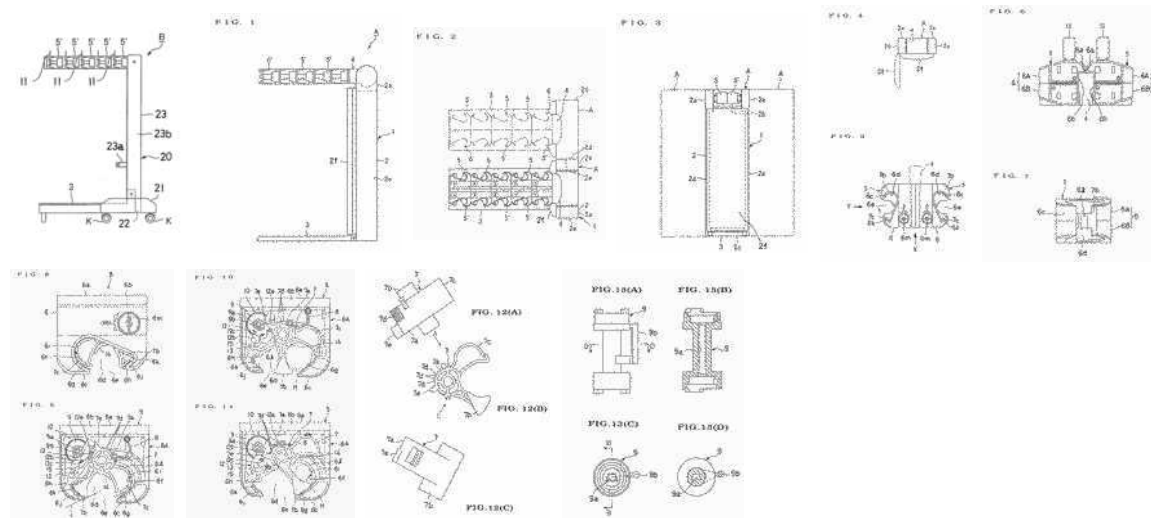
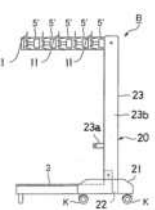
KONGO SANGYO
MATSUGISHI KENKYUSHO
SUGATSUNE KOGYO*

2003-12-31

2003-12-31

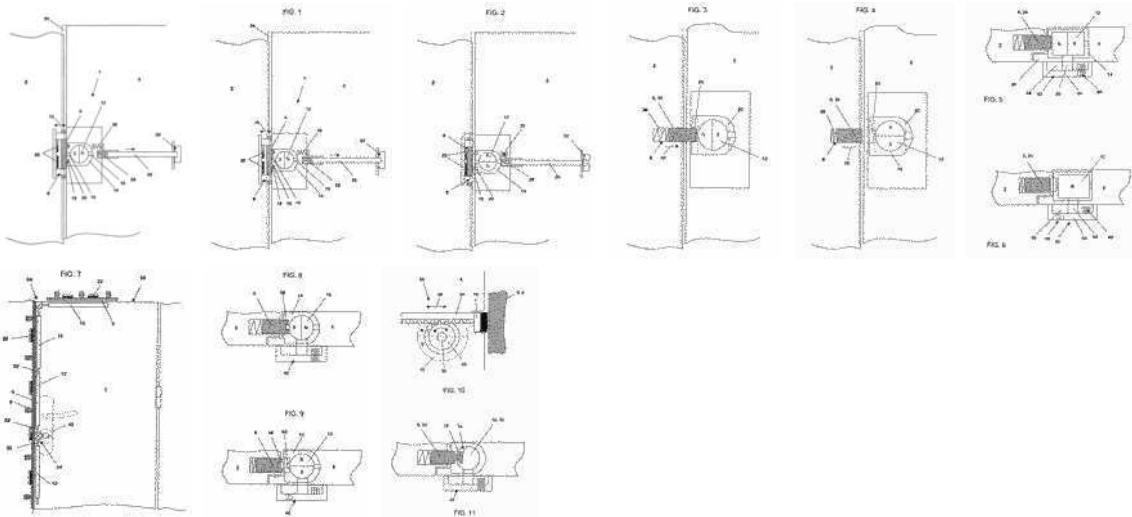
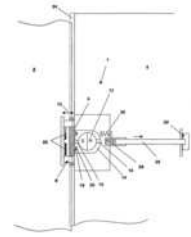
A supporting column part 2 is erected from a rear end part of a water receiving part 3. A basal end part of a supporting member 4 is rotatably disposed at an upper end part of the supporting column part 2. The supporting member 4 is, when in use of an umbrella storage apparatus A, rotated such that the supporting member 4 becomes horizontal in posture and positionally fixed. A plurality of umbrella retaining locks 5, 5' are disposed, side by side in the longitudinal direction of the supporting member 4, at left and right side parts of the supporting member 4. The water-drops dropping from the umbrellas retained by the umbrella retaining locks 5, 5' are received in the water receiving part 3.

<IMAGE>



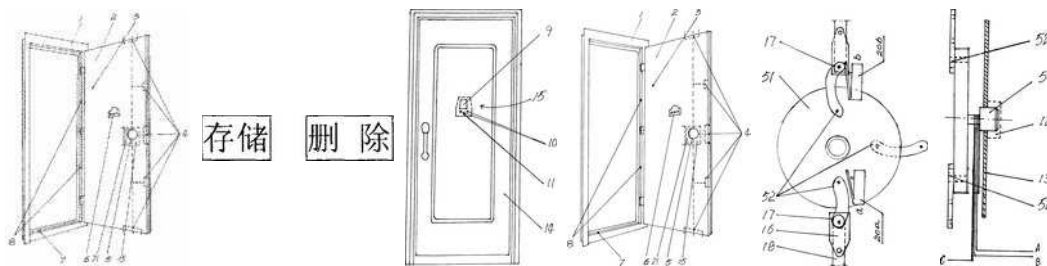
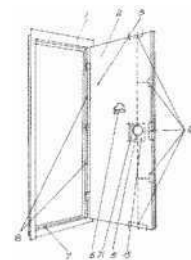
53. Magneto-mechanical locking device WO2004083578 2003-03-19 DERAMU DRUMM* 2004-09-30 2004-09-30

The invention relates to a magneto-mechanical locking device (1) for locking a door (4) which can be displaced in relation to a stationary frame (2). Said locking device comprises a locking element (6) produced from a magnetizable material and disposed on the frame (2), and a permanent magnet (12) that is mounted on the door (4) and that can be twisted from a first release position, in which the locking element (6) is subject to substantially no action of magnetic force, to a second locking position, in which the locking element (6) is attracted by the action of magnetic force of the permanent magnet (12) and locks the door (4).



54. Fingerprint identification multi-way locking and folding full-automatic safety burglar-proof door (cabinet) CN2602141 2002-09-23 LI YUANXIANG 2004-02-04 2004-02-04

The utility model relates to an automatic security door (cabinet) with fingerprint identification and multidirectional locking and opening, comprising a door panel 2 of a metal door (cabinet) and a fingerprint identification controller master 15. A fingerprint acquisition window 9 is arranged on a panel outside the door panel, and a stepping motor is arranged on a panel inside the door panel. A motor shaft is provided with a three-directional locking drive plate 51. Drive plates 52 of three drive lock plungers are arranged on the plate 51. The outputs of the controller master 15 achieve automatic opening and locking of the door panel respectively through a touch switch 7 arranged on a door frame, a switch 3 and a software program control switch which are arranged on an internal panel surface and a positive and opposite rotation distances of a travel switch gang control stepping motor 5. The utility model has the functions of multi-lock, automatic opening and closing, fingerprint identification for wide using for residential general doors and safes, etc.



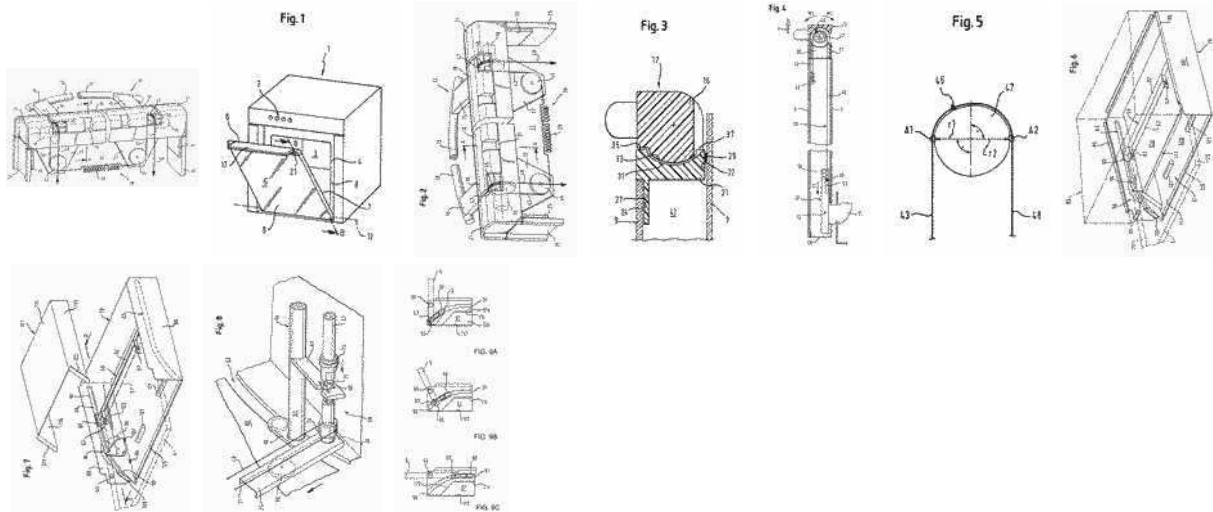
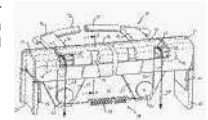
55. Household appliance door and household appliance

2002-02-27

BOSCH HAUSGERAETE*
BSH HAUSGERAETE

2003-09-04 2003-09-04

Door comprises a protective device assigned to a control mechanism (38) which on operation of the door handle (17) prevents transfer of the pivoting movement of the door handle to the control mechanism. An independent claim is also included for a domestic appliance comprising the above door. Preferred Features: The protective device is a blocking element which can be adjusted into a blocking position to prevent the pivoting movement of the handle, a freewheel which uncouples the handle from the control mechanism, or a **spring** element which absorbs movement of the handle.



56. Safe burglar-proof door(cabinet) with functions of fingerprint identification, multidirectional locking and full-automatic folding

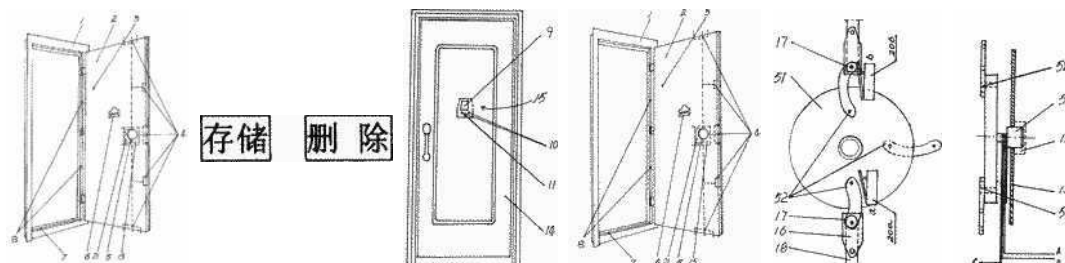
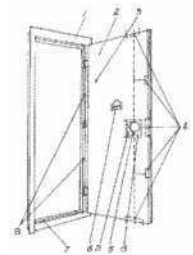
CN1485521

2002-09-23

LI YUANXIANG

2004-03-31 2004-03-31

The invention relates to a fingerprint identification multidirectional locking and folding full-automatic safety burglar-proof door (cabinet), including a door panel for metal door (cabinet) and a fingerprint identification control device assembly, whose finger-print acquisition window is mounted on the outer face **plate** outside the door panel, and the stepping motor is mounted on the inner front panel, a three-dimensional locking point **disk** drive is arranged on the motor shaft, three driving sheets are arranged on the disc for driving the locking bolt with different directions, the automatic unlatching and locking of the door panel is realized by the output of the control device assembly. The advantages of the invention are multidirectional locking, full-automatic opening and closing and fingerprint identification.



57.

Locking unit

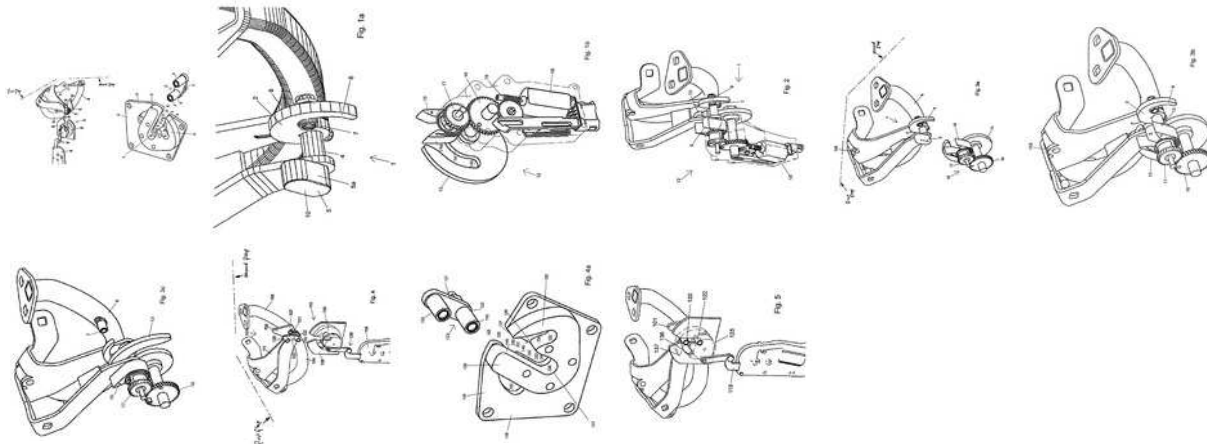
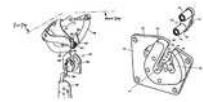
WO2007062635

2005-11-30

EDSCHA*
EDUCIAA
SHKODA AUTO
SKODA AUTO*
SKODA AUTO AH S
VOLKSWAGEN

2007-06-07 2007-06-07

The invention relates to a locking unit for a first flap, a second flap and a carrier, comprising a locking element (101; 201) which can be housed in a displaceable manner on the first flap and which comprises a tappet (120; 253), and a driveable actuation device (112; 212) which is used to displace the locking element (101; 201). In a first position, said locking element (101; 201) couples the first flap to the second flap in order to form a unit, and in a second position, the first flap is released from the second flap, and in an intermediate position, the first flap and the second flap are fixed together in the carrier. An active connection between the tappet (120; 253) of the locking element (101; 201) and the actuation element (112; 212) can be formed in said intermediate position.



58.

Door handle device, door member with the door handle device, and smart entry system with the door member

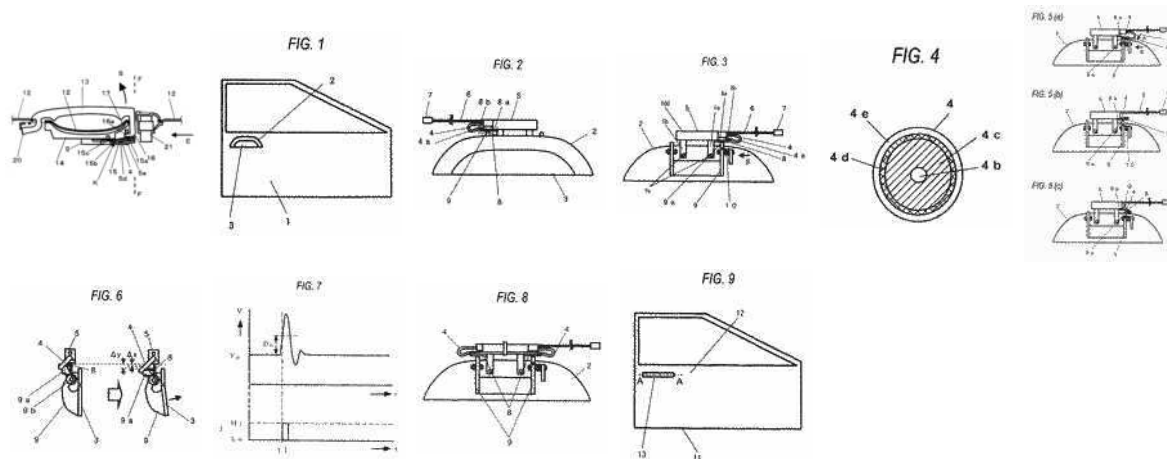
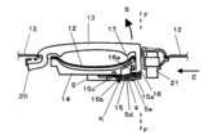
WO2006061917

2004-12-08

PANASONIC*
PANASONIC ELECTRIC INDUSTRY

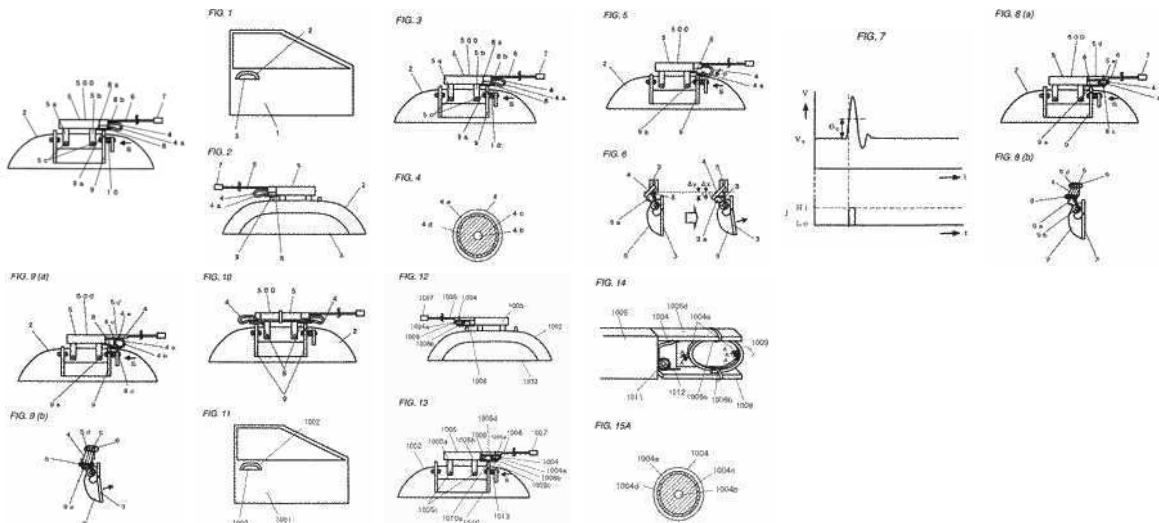
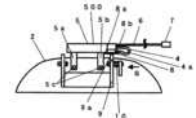
2006-06-15 2006-06-15

While there are contact joining and capacitance type switches for detecting an operation of a door handle, a problem that is to be solved by the invention is to solve problems of contact failure due to aging and a malfunction triggered by rain drops. According to the invention, a piezoelectric sensor (4) has such flexibility as to be annexed to a door handle (3), whereby a minute displacement of the door handle (3) can be detected with high sensitivity. Consequently, a sufficient signal output can be obtained only through a simple touch to the door handle (3), whereby a touch or contact to the door handle (3) can be detected. In addition, since electrodes are not exposed to the outside, the piezoelectric sensor (4) is made difficult to be affected by disturbance, and dust, rain, snow and the like which come to adhere thereto. Furthermore, since the piezoelectric sensor (4) can be deformed with suppleness, there are imposed few limiting conditions on a setting place and a space where to dispose the piezoelectric sensor (4) is diminished.



59. **Contact detection device, and door handle device and smart entry system with the same** JP3763318 **2005-11-02** **PANASONIC*** **PANASONIC ELECTRIC INDUSTRY** 2006-04-05 2006-04-05

As a switch for detecting operation of a door handle, a contact joint switch, a capacitance type sensor, etc., is available, but involves problems of a contact failure caused by secular change and a malfunction caused by rain and is not excellent in a multifunctional property used for other applications. A contact detector of the invention includes support means (8) having a moving part displacing upon reception of contact; a cable-like piezoelectric sensor (4), having a part supported by the support means (8) and becoming deformed in conjunction with displacement of the moving part (8c); and signal processing means for performing signal processing of output of the cable-like piezoelectric sensor (8), wherein the cable-like piezoelectric sensor (8) has a bend part (4a) to form a plurality of simultaneous deformation parts and the simultaneous deformation parts become deformed in conjunction with the moving part (8c), whereby contact is detected.

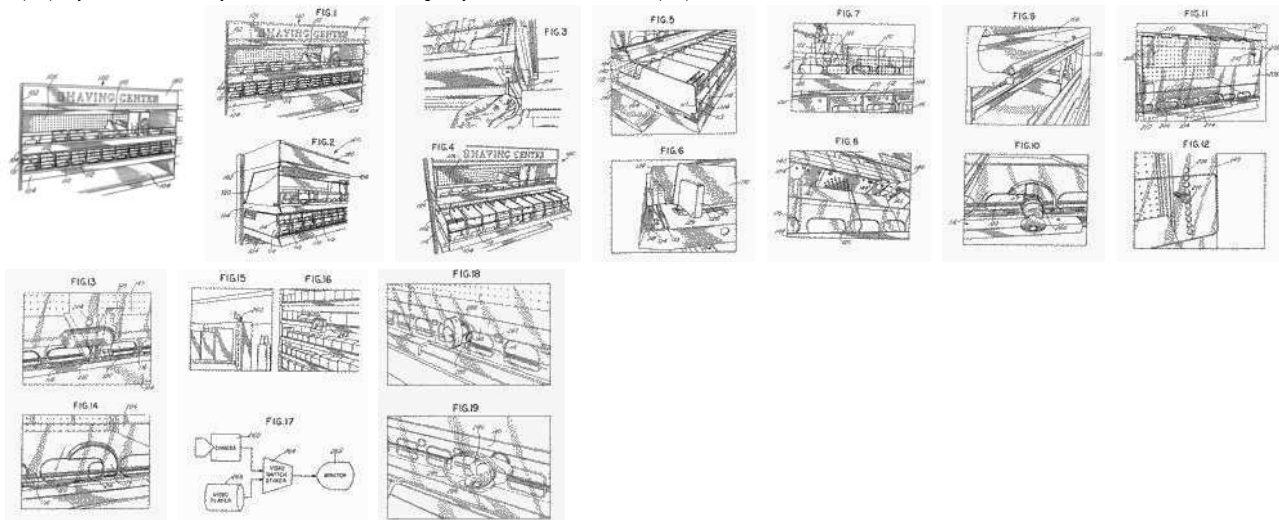


60. **Lock, and accessory for lock** JP2005098046 **2003-10-23** **KASHIWAGI SHOJI** 2005-04-14 2005-04-14

PROBLEM TO BE SOLVED: To eliminate any weak points in an opening, and to review material, execution of works, and method of use in regard to five points which are a **lock** and key, a gap between a frame and a window frame, a space of a door frame interior, a **guard plate**, and a door chain.
SOLUTION: In the new **lock**, an interior is enlarged to attach a member, and extra space is sealed by an obstacle. The obstacle has a hole and a slit for the key, and it is attached in a fixed or movable state. If it is effective, an object not relative to opening and closing is also used, and it is also attached to a position where there are no members. An interior of the **lock** is partitioned, rotational motion and fore and aft motion are carried out a plurality of times, and the key is turned while interlocking it with the obstacle. An obstacle is placed in a position covering the member, and an obstacle is placed behind the member. An obstacle is attached to an outer side of a conventional **lock**, and a key is put in the obstacle and inserted into the **lock**. In locking and unlocking, the key is not turned directly, but a movable portion is turned along with the key. After execution of works, circumferences of the frame, a double sliding door, and a window are filled with a filler, and it is filled in the frame to eliminate gaps. In the door chain, unnecessary objects are removed, and positioning of attachment is carried out. Resistance is enlarged. In the **guard plate**, a tabular and long one is lapped from the front of a door.
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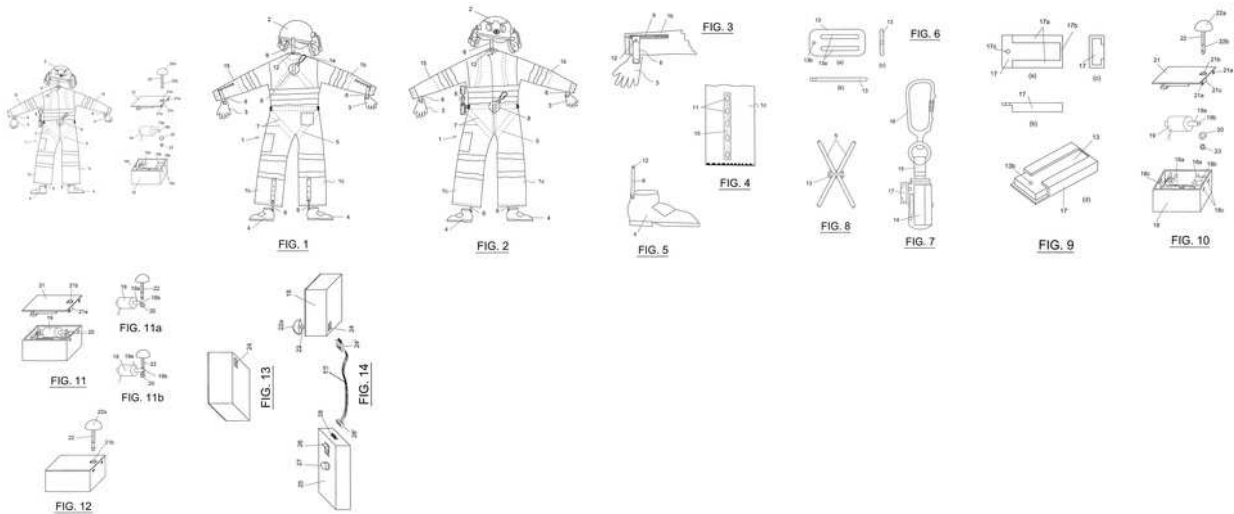
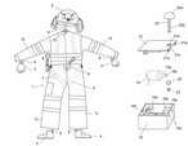
61. **Product securement and management system** US20050161420 **2005-02-01** **RTC INDUSTRIES*** 2005-07-28 2005-07-28

A system for managing and securing product and deterring theft in a retail setting includes a system (100) that resides either on a standard retailer shelf or may be a stand-alone system. In an embodiment, the system (100) includes a plurality of shelves (104) and product dividers (110) positioned between the shelves (104) and extending from the front edges of the shelves toward the rear of the shelves. Front retaining walls (116) are positioned at the front edges of the shelves (104) and are configured to have a height that inhibits access to products on the shelves (104). Individual retaining tabs (122) of varying height may be added in front of rows of taller product to inhibit access to these products. In an embodiment, rigid (130) or moveable barriers (140) may be positioned above retaining walls (116) that further restrict access to the products. With the invention, the "sweeping" of numerous products by a thief is deterred. In another embodiment, an alert device may be configured to detect and monitor movement of the moveable barriers and may provide an alert signal (142) corresponding to the management of product on the shelf or corresponding to a potential theft situation. In an embodiment, the alert device (142) may communicate with a security camera (260) to monitor the vicinity and provide a notification to the potential thief that his actions are being monitored and recorded, or provide a notification to store computer, pager, cellular telephone, or the like. In yet another embodiment, **lock** mechanisms may be used to further secure high-risk theft items. Also, clips or clip members (320 or 360) may be incorporated to further secure the product dividers (110) to the shelves (104). In addition, an adjustable power bar (400) may be included that is adjustable to accommodate the height adjustments made to the shelves (104).



62. Integral protective work clothing comprising releasable integrated retaining elements and a digitally-activated retaining fastener WO2006106160 2005-11-28 OLIEQUIP* 2006-10-12 2006-10-12

The invention relates to an integral protective work clothing item comprising releasable integrated retaining elements and a digitally-activated retaining fastener. The inventive clothing item includes a harness and a retractable mechanism for securing a user to a standard lifeline. The item also comprises additional protective elements, such as a helmet, gloves and shoes which are connected thereto by means of respective elastic bands. Each of said bands is equipped with a hole for a fastener device that can only be released using a device designed for said purpose. The digitally-activated fastener comprises an electromagnet, a mobile discoidal part and a **spring** element. The cover of the fastener casing is provided with a hole and a tubular formation in which a **pin** or rod can be inserted and guided. In the operative position, the core of the electromagnet retains the rod in place and prevents the removal thereof, such that the casing and the rod are connected to one another and can only be released using the separate releasing device.



63. Device for effecting a bi-directional displacement of a means along a guide FRAUNHOFER* WO2006100049 2005-04-29 2006-09-28 2006-09-28

The invention relates to a device for effecting a bi-directional displacement of a means or of a connecting element, hereafter referred to as means, along a guide, which can be reversibly moved along the guide between at least two positions. The inventive device comprises a driving means, which can be engaged with the means and which permits the means to displace, while being subjected to the action of force, in a direction along the guide, and comprises an actuator, which is engaged with the means and which permits the means to displace, while being subjected to the action of force, in the opposite direction along the guide. This actuator can be actuated by means of a converter material.

