

Search strategy

Query

(REKEYABLE AND LOCK AND CYLINDER AND MECHANISM)/TX/BI/SA/KEYW/IN/PA

100 Documents

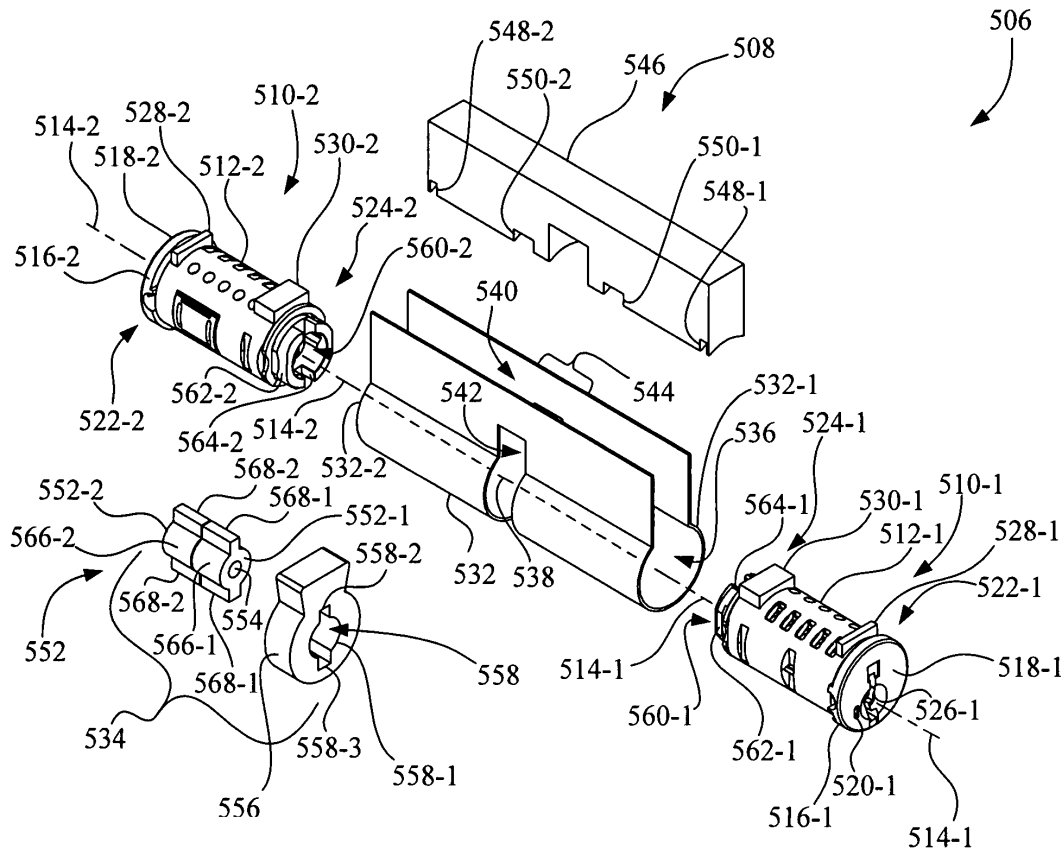
Publication numbers	Title	Current assignees
EP2310597 A1	Rekeyable lock cylinder assembly and method for assembling a rekeyable lock cylinder assembly	SPECTRUM BRANDS
EP2603653 A1	Tool-less rekeyable lock cylinder	SPECTRUM BRANDS
EP-210037 A2	Rekeyable master and user lock system with high security features	SHIELD SECURITY SYSTEMS, ...
WO201355663 A1	Method and apparatus for a rekeyable master key lock	TETRA HOLDING, ...
WO2012135398 A1	Rekeyable lock cylinder having rotatable key followers	TETRA HOLDING, ...
WO201881714 A1	Housing for removable lock core	SPECTRUM BRANDS
US5044180 A	Rekeyable shrouded lock	MASTER LOCK
WO200429389 A2	Rekeyable lock assembly and method of operation	TETRA HOLDING, ...
WO200479134 A1	Rekeyable lock cylinder assembly with adjustable pin lengths	TETRA HOLDING, ...
US20110041579 A1	Rekeyable lock assembly with blown cylinder protection	TETRA HOLDING, ...
WO200479135 A1	Rekeyable lock	TETRA HOLDING, ...
CN104948018 A	Safe lock capable of swallowing and clamping silver paper, soft glue and similar unlocking tool and key thereof	DONGGUAN MANLEKE SPECIAL THEFTPROOF LOCK INDUSTRIAL
EP2084351 A1	Rekeyable lock assembly and method of operation	KWIKSET
WO200750411 A2	Reset fixture for rekeyable lock assembly	TETRA HOLDING, ...
US5233850 A	Rekeyable lock system	SCHROEDER MARC
WO200665609 A2	Keying system and method	TETRA HOLDING, ...
EP1738044 A2	Key combination element in key blank and key	MUL T LOCK
EP-157967 A1	Rekeyable lock method and apparatus.	INNOVATIVE RESEARCH
EP-872615 A2	Padlock	ABUS
US20090277233 A1	Rekeyable lock cylinder, plug assembly of the same and method for rekeying the same	TAIWAN FU HSING INDUSTRIAL
CN203430213U U	Gear driving type door lock	DALIAN TAIXIANG LOCK
US20110041577 A1	Rekeyable lock assembly with blown cylinder protection	SPECTRUM BRANDS
EP1891290 A2	Electronic security device	MASTER LOCK
EP2585659 A1	Mortise lock cylinder	KWIKSET
WO200842689 A2	Reset cradle for a quick rekey cylinder	TETRA HOLDING, ...
JP08189233 A	Electric lock	MIWA LOCK
US20080302144 A1	Field-reversible cabinet latch lock	OLYMPUS LOCK
TW201118227 A	Rekeyable lock cylinder with foolproof mechanism	TAIWAN FU HSING INDUSTRIAL
WO200655281 A2	Rekeyable lock cylinder	NEWFREY

Publication numbers	Title	Current assignees
WO200481322 A2	Devices, methods, and systems for keying a lock assembly	TETRA HOLDING, ...
WO9101425 A1	Lock adjustable to operate with different keys	ADLER RICHARD STEVEN, ...
US20030015007 A1	Pneumatic tool lock	MASTER LOCK
US20030041630 A1	Rekeyable lock with circumferential pin configuration	ABUS
WO200633864 A1	Rekeyable lock having 2-piece pin with rotatable member	NEWFREY
CN104680631 A	Dual-control, graded encoding and state self-detecting lock cylinder and lockset	CHANGYUAN GONGCHUANG ELECTRIC POWER SECURITY TECHNOLOGY
EP2603652 A2	Interchangeable system of cylinder combination with embedded key in door lock (side/trunk) equipped with automobile vehicle free-turning anti-theft device	VALEO SISTEMAS AUTOMOTIVOS
US5038589 A	Rekeyable cam lock	FRANK J MARTIN
US20100050717 A1	Re-keyable cylinder lock	TONG LUNG METAL INDUSTRY
JP3164161U U	Locking device for vehicle such as uric acid tank	YUMI NIMADORI, ...
EP-623184 A1	Universal lock and key	KIM KWON WOO
US20140223976 A1	Re-keyable cylinder lock	TONG LUNG METAL INDUSTRY
CN203947882U U	Lock cylinder protection device	WU RONGYU
CN204199871U U	Intelligent passive lock cylinder	JINHU COUNTY POWER SUPPLY, ...
US5737950 A	Ambidextrous vertical inverted handed cam lock	OLYMPUS LOCK
CN104481246 A	Electromechanical hybrid anti-theft locking alarm lock	XU HAOZHONG
CN105171406 A	Multifunctional clamp used for assembling lock cylinder	LI GUANGMING
EP3045620 A1	Locking cylinder	ABUS AUGUST BREMICKER SÃ**HNE
CN104631937 A	Electromechanical combined asynchronous interlocking magnetic pushing anti-theft lock	XU YUYI
CN104196362 A	Electrical and mechanical mixed alarm multi-interlocking anti-theft lock	CHONGQING XIZHI MACHINERY EQUIPMENT
US4233828 A	Changeable combination, axial pin tumbler lock with single interface	CORPORATION A OF DELAWARE, ...
CN104033041 A	Interlocking asynchronous alarming key-hidden anti-theft lock	CHONGQING BEIJING TECHNOLOGY R & D
JP3194790U U	Powder scattering device	TOSHIBA
US20070227210 A1	Security cover plate with accentric mounting aperture	OLYMPUS LOCK
US4850210 A	Lock adjustable to operate with different keys	ADLER RICHARD S

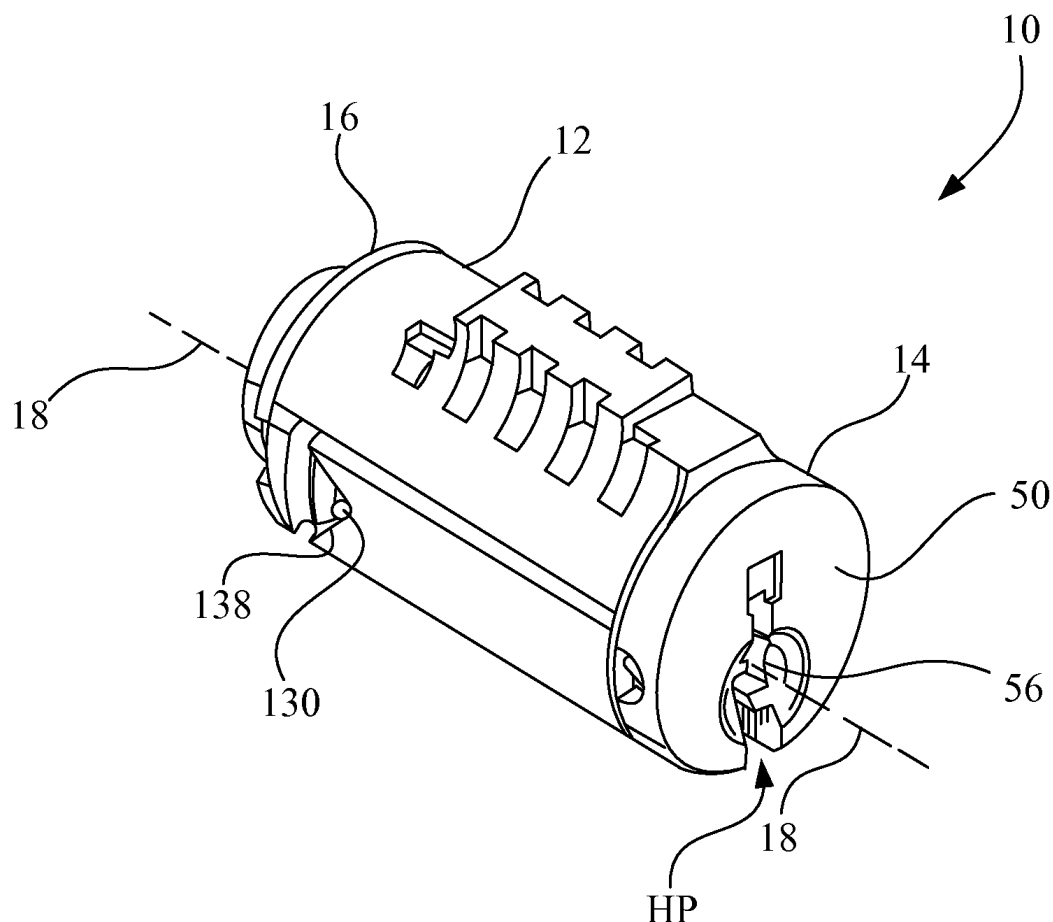
Publication numbers	Title	Current assignees
US20080156054 A1	Security cover plate with accentric mounting aperture	OLYMPUS LOCK
CN104612466 A	Mechanical side locking interlocking anti-theft lock	CHONGQING SHIZHAN TECHNOLOGY DEVELOPMENT CENTER
CN104499780 A	Lock cylinder structure	YUAN GUIXIONG
CN103147638 A	Luggage bag zipper coded lock	WENZHOU PAIKE CASE
CN104453396 A	Side lock additional mechanical interlocking anti-theft lock	XU HAOZHONG
CN204175024U U	Lock cylinder cover with rotating structure	GUANGDONG BIDA SECURITY SYSTEM
CN104499823 A	Electromechanical interlocking anti-theft warning tooth pushing lock	XU HAOZHONG
EP3045621 A1	Lock cylinder , key and key blank	ABUS AUGUST BREMICKER SÃ**HNE
CN104110175 A	Anti-technical-unlocking automatic door lock , anti-technical-unlocking idle cylinder and anti-technical-unlocking automatic engaging-disengaging key	CHEN ZHIHONG
CN104631935 A	Anti-theft electromechanical interlocking magnetic repulsion alarm lock	XU YUYI
CN104453469 A	Interlocking mechanical elasticity-free anti-theft multi-locking lock	YU HONGYI
CN104631936 A	Interlocking magnetic-repulsion electromechanical anti-theft alarm lock	XU YUYI
CN104453423 A	Interlocking marble-free electromechanical anti-theft alarm multiple lock	XU YUANZHI
EP1538285 A2	Re-keyable lock and method	KWIKSET
US7340929 B1	Axially rotative rekeyable lock	CHRISTOPOULOS EFTHEMOIS
US20040107751 A1	Electromechanical cylinder plug	INVISION RESEARCH
US20030159483 A1	Rekeyable mortise lock	TRUTH HARDWARE
CN104033032 A	Interlocking-type alarming anti-theft lock	YU HONGYI
CN103452389 A	Antitheft alarm lock and production method thereof	ZHANG CHAOFENG
CN104652970 A	Magnetic-push asynchronous mechanical anti-theft lock	XU HAOZHONG
CN101864864 A	Method for manufacturing lock bulb with spiral keyhole	LIN ZHIYONG
CN203856291U U	Indoor door lock	WANLI SECURITY PRODUCT
CN203452482U U	Anti-theft alarm lock	ZHANG CHAOFENG
CN104033035 A	Automatic alarm interlocking double-key anti-theft lock	YU HONGYI
CN204552354U U	Theftproof bicycle lock of debugging stage by stage	CHEN JUNTAO, ...
US5010753 A	Interchangeable core lock	KABA MAS, ...

Publication numbers	Title	Current assignees
EP3030732 A2	A lock with the opening mechanism integrated in the cylinder	METALPLUS
JP06056415U U	Sliding door lock for mounting of the structure	YKK - YOSHIDA KOGYO KABUSHIKIGAISHA
CN1086573 A	Manufacturing method and use of lock	REN WENLIN
CN104033036 A	Intermittent alarm embedded key interlocking dual-key anti-theft lock	XU YUANZHI
FR2949245 A1	Reconfigurable latch assembly and method of operating this assembly	NEWFREY
CN101021111 A	Puzzle lock system	ZHAO FULIN
US20130312468 A1	Single key, interchangeable cylinder lock	BRIDGESTONE CAPITAL
JP2006230696 A	Locking device of game machine	CHIYUUTOU SANGYO
CN204457154U U	Passive pop-up mute automatic lock	LIU FAN
CN1074969 A	Method for mfg. lock and use thereof	REN WENLIN
US4912953 A	Re-keyable cylinder lock	WESLOCK ACQUISITION, ...
JP2005021604 A	Locking device of game machine	CHIYUUTOU SANGYO
JP2004245015 A	Locking apparatus for door	GSK SANGYO
CN104328951 A	Password lock of oil grease container with improved unlocking mechanism	FOSHAN TIANSHENGLONG OIL CHEMICAL
CN104088530 A	Double-key electric interlocking anti-theft lock	CHONGQING SHIZHAN TECHNOLOGY DEVELOPMENT CENTER
US20090133450 A1	Lock device that enable users to choose the security level of the lock	LOCKING SYSTEMS INTERNATIONAL
US5718136 A	Lost key lock-out cylinder	KABA MAS, ...
CN104481280 A	Electronic lock with double-motor structure	GUANGDONG DERUI INTELLIGENT TECHNOLOGY
US5174136 A	Dual function padlock with removable cylinder mechanism	THWING RANDY L
EP2619387 A1	Rotating lock cylinder and security key	ERUNSUTO KERAA, ...

Images



Images



Abstract

(EP2603653)

A **rekeyable lock cylinder** includes a plug assembly **and** a **lock cylinder**. The plug assembly includes a plug body, a plurality of key followers, a plurality of racks, **and** a rack carrier that carries the plurality of racks. The rack carrier is moveable relative to the plug body between a proximal end **and** a distal end. A cam follower extends outwardly from the rack carrier. The **lock cylinder** body includes a **cylinder** wall with the plug assembly rotatably disposed therein, **and** has a cam track configured on the **cylinder** wall at an interior surface to guide the cam follower of the plug assembly. The cam track has a ramp portion configured to longitudinally displace the cam follower **and** the rack carrier as the plug assembly is rotated relative to the **lock cylinder** body to facilitate selective disengagement of the plurality of racks from the plurality of key followers.

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Title

(EP-210037)

Rekeyable master **and** user **lock** system with high security features

Images

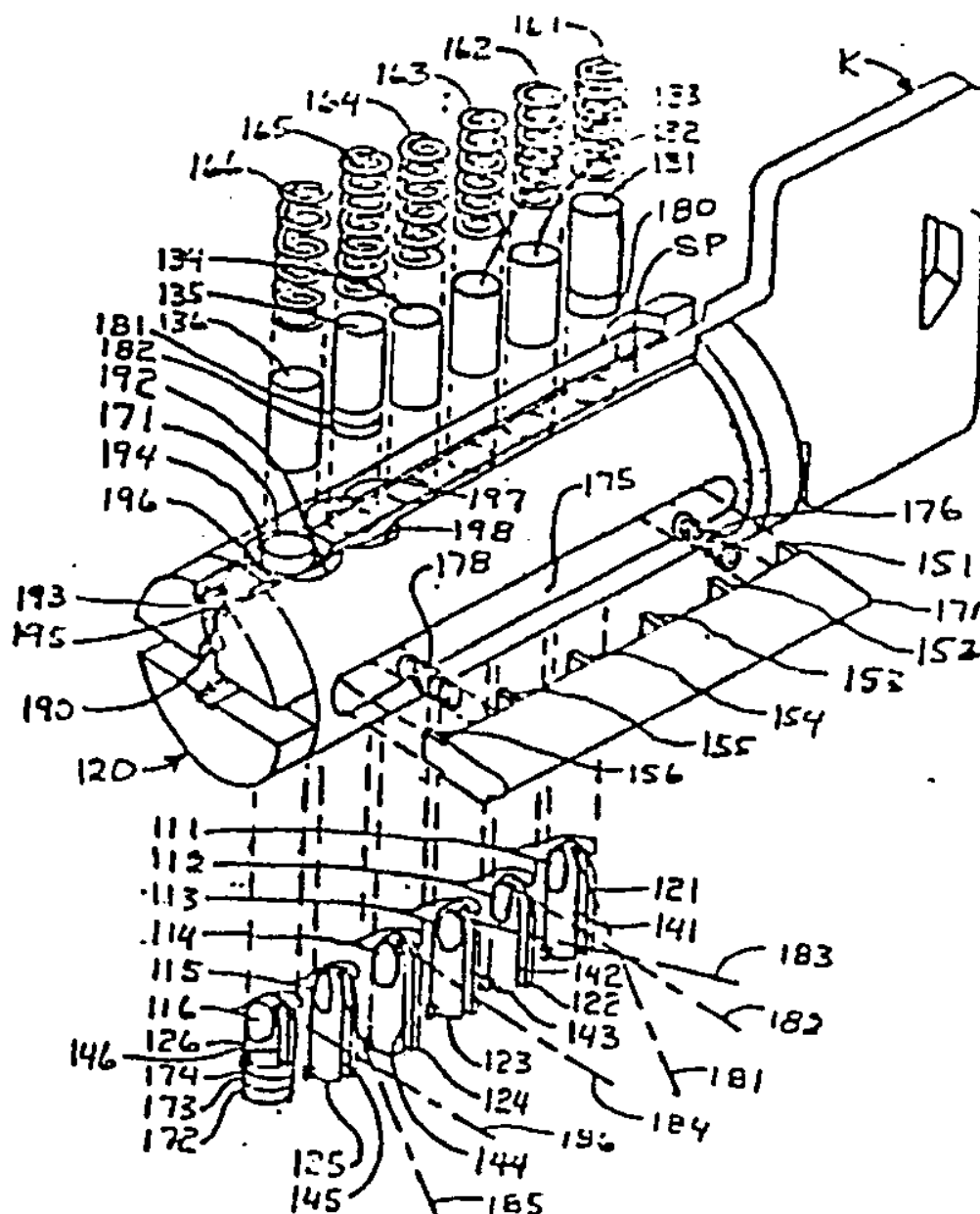


FIG. 3

Abstract

(EP0210037)

Methods and apparatus are disclosed for multiple level user and master key lock rekeying changes externally by the use of appropriately bidded level change keys. Several variations of methods and apparatus for removing user level change wafers to rekey user levels independent of master levels and to rekey master levels independent of user levels are disclosed. Some of the apparatus are suitable for locks wherein the cylinder is rotatable at 180 DEG., and other embodiments are disclosed for locks wherein cylinder rotation is limited to less than 180 DEG.. Further, apparatus for enhancing the security of such rekeyable locks are disclosed.

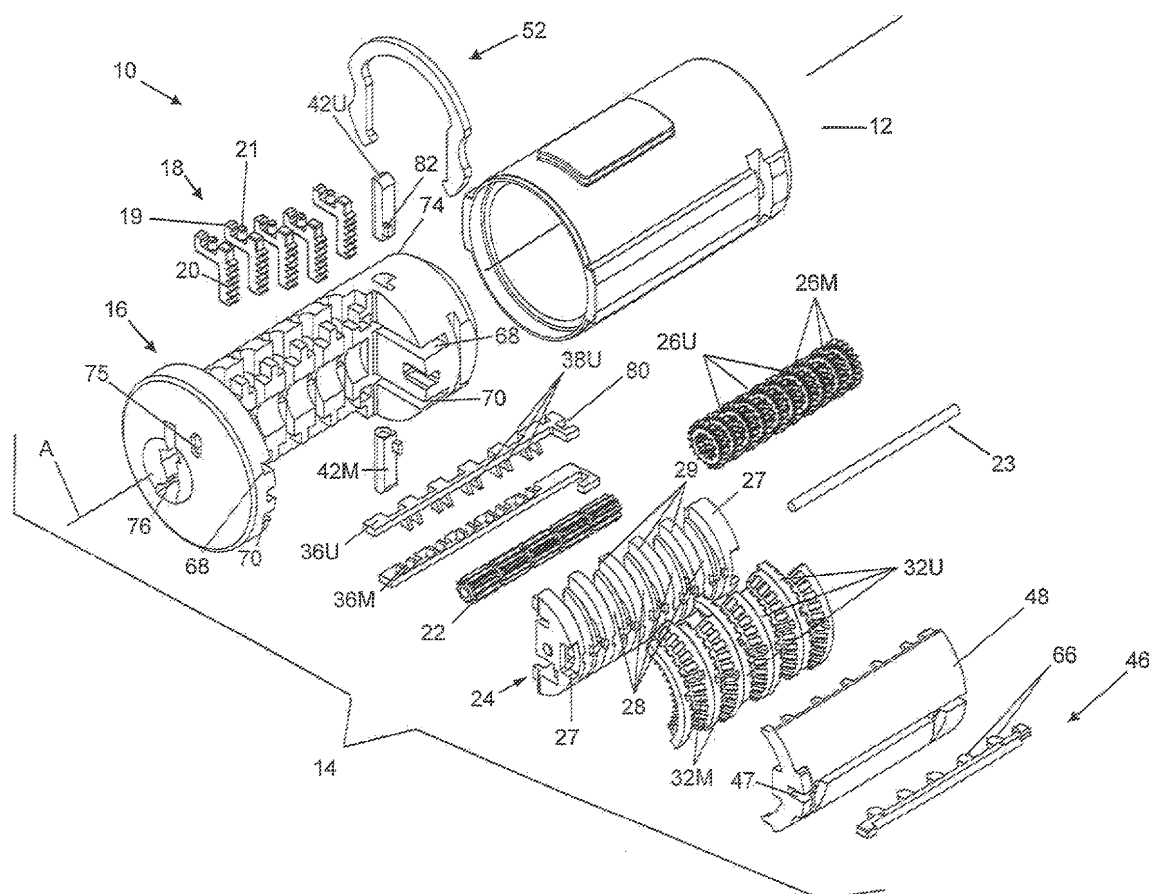
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Title

(WO201355663)

Method and apparatus for a rekeyable master key lock

Images



Abstract

(WO2013/055663)

A **rekeyable** master **lock** includes a plurality of pin gears, with each pin gear engaged with a corresponding key follower. As each key follower rides up **and** down on the key biting, it causes a corresponding pin gear to rotate. Each pin gear engages a user gear **and** a master gear so that, as the pin gear rotates, the user **and** master gears rotate. Each user **and** master gear, in turn, drives a corresponding user rack **and** a master rack. When a valid user key is inserted **and** rotated, the user racks or master racks are aligned along a common axis **and** held in alignment by a locking bar. Longitudinal movement of the user gear or master gear allows the rekeying function by decoupling **and** recoupling the user gear or master gear with the user racks or master racks.

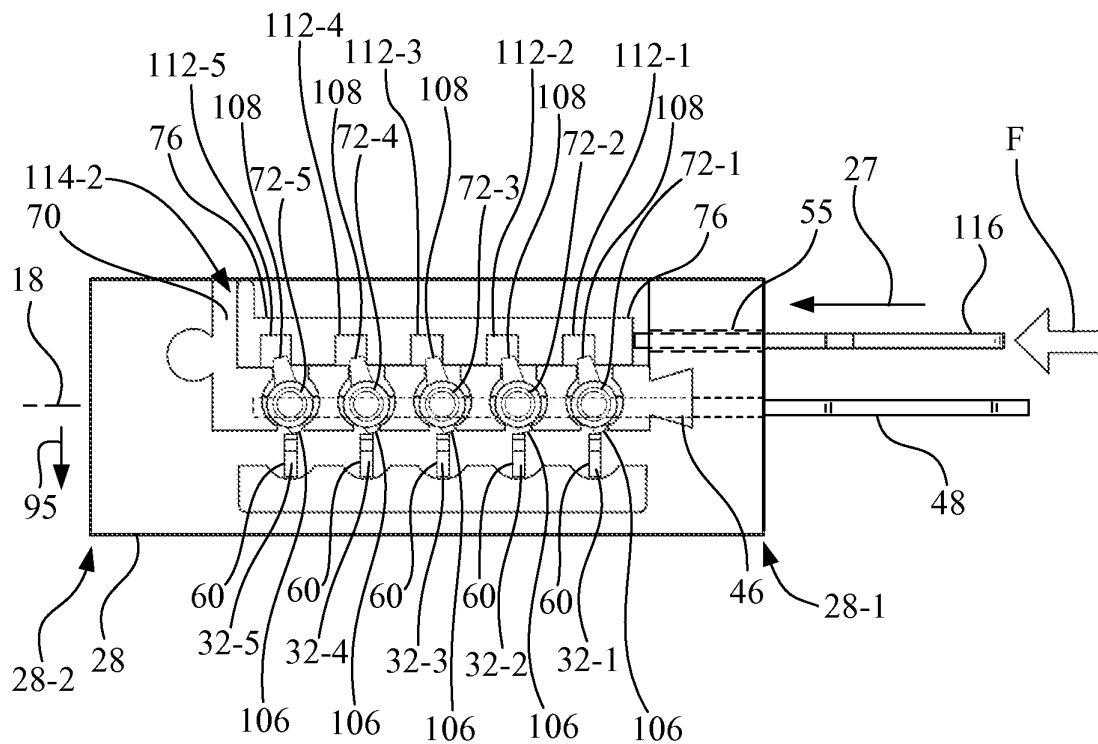
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Title

(WO2012135398)

Rekeyable lock cylinder having rotatable key followers

Images



Abstract

(WO2012/135398)

A **rekeyable lock cylinder** includes a **lock cylinder** body having an interior void **and** a plug assembly rotatably disposed in the **lock cylinder** body. The plug assembly includes a plug body having a keyway. A plurality of racks is movably disposed relative to the plug body. A plurality of key followers is positioned across the keyway **and** is moveably disposed relative to the plug body. Each key follower is configured to engage a respective rack of the plurality of racks. A key follower rotation member is drivably engaged with each key follower of the plurality of key followers. The key follower rotation member is selectively movable to rotate each key follower of the plurality of key followers to thereby disengage each key follower of the plurality of key followers from the respective rack of the plurality of racks to facilitate a keying of the **rekeyable lock cylinder**.

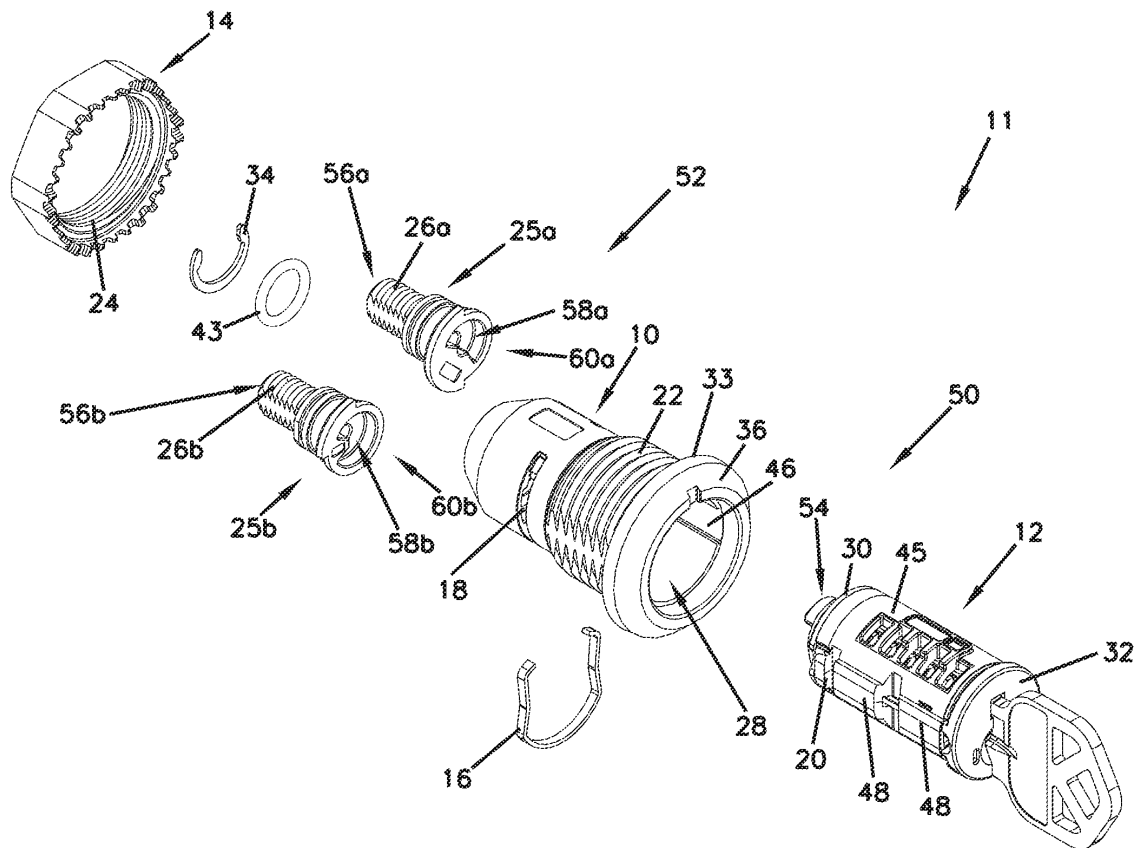
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Title

(WO201881714)

Housing for removable **lock** core

Images



Abstract

(WO2018/081714)

A housing configured to accept a **rekeyable lock** core for use in lockable enclosures. The housing is configured to use a **lock** core that is designed for deadbolt **and** door lever/knob operation. The housing allows a **rekeyable lock cylinder** to be used in one's home as well as other enclosure enclosures. A common key may therefore be used for all devices as the **lock** core is of a **rekeyable** design.

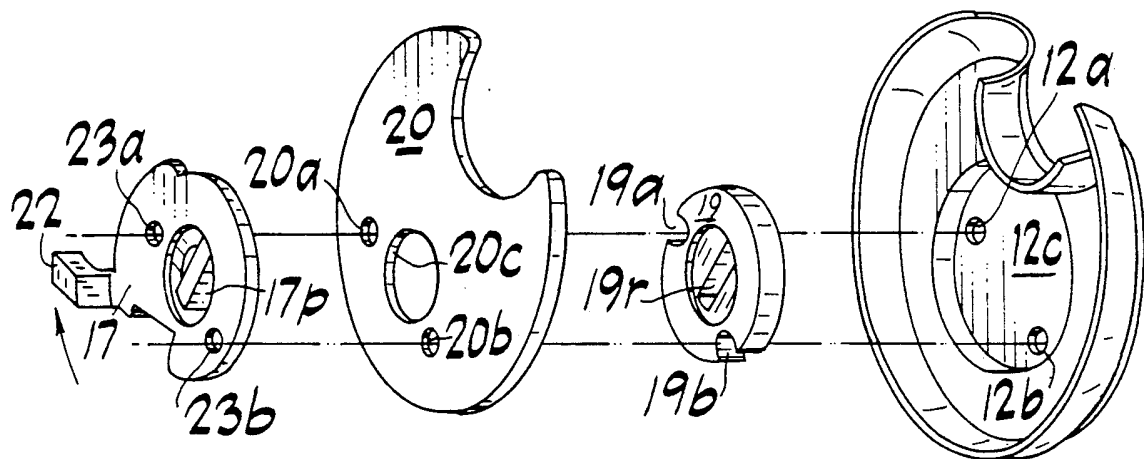
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Title

(US5044180)

Rekeyable shrouded **lock**

Images



Abstract

(US5044180)

A shrouded shackle **lock** having two shell halves with a cover plate in one shell half **and** a hole in the opposite other shell half. Fastener means positioned in the **lock** are turnable by a wrench inserted in the hole in the other shell half for removing

the cover when the fastener means is disengaged from the cover. Upon the removal of the cover the **lock cylinder** is removable for rekeying or substitution.

The **lock** shell halves are engaged together using a **lock** retainer ring welded to one shell half and thereafter bent over and around the other shell half.

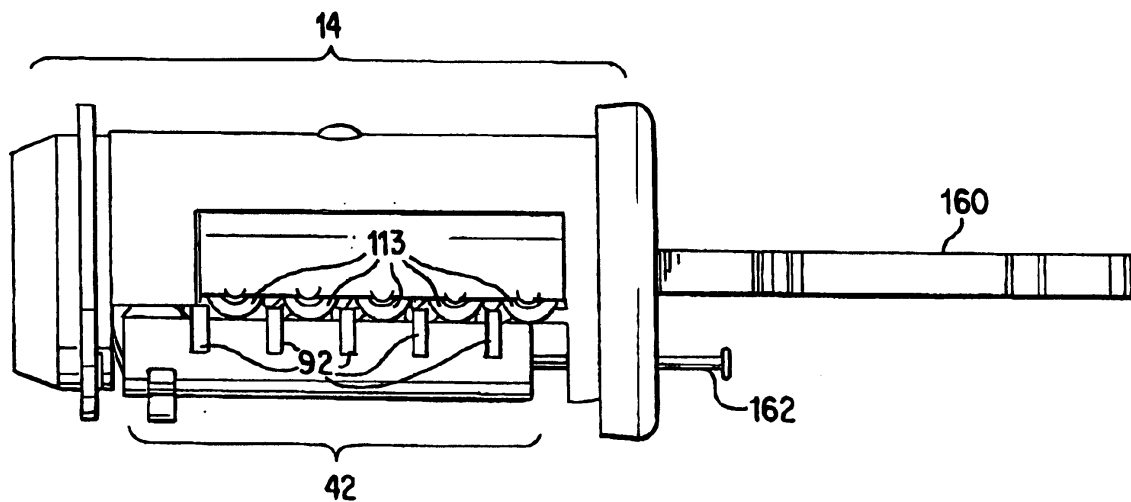
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Title

(WO200429389)

Rekeyable lock assembly and method of operation

Images



Abstract

(WO2004/029389)

A **rekeyable lock cylinder** (10) includes a **cylinder** body (12) with a plug body (14) and carrier (90) sub-assembly disposed therein. The plug body (14) includes a plurality of spring-loaded pins (113) and the carrier assembly (90) includes a plurality of racks (92) for engaging the pins (113) to operate the **lock cylinder** (10). The racks (92) and pins (113) move in a transverse direction, in response to insertion of a first valid key (160) into the **lock cylinder** (10), to unlock the **lock cylinder** (10). The carrier (90) moves in a longitudinal direction, in response to insertion of a tool (162) in a tool-receiving aperture (54), from an operating position to a rekeying position. In the rekeying position, the racks (92) are disengaged from the pins (113) and a second valid key can replace the first valid key (160). Rotation of the plug body (14) from the rekeying position with the second valid key in the **lock cylinder** (10) obsoletes the first valid key (160).

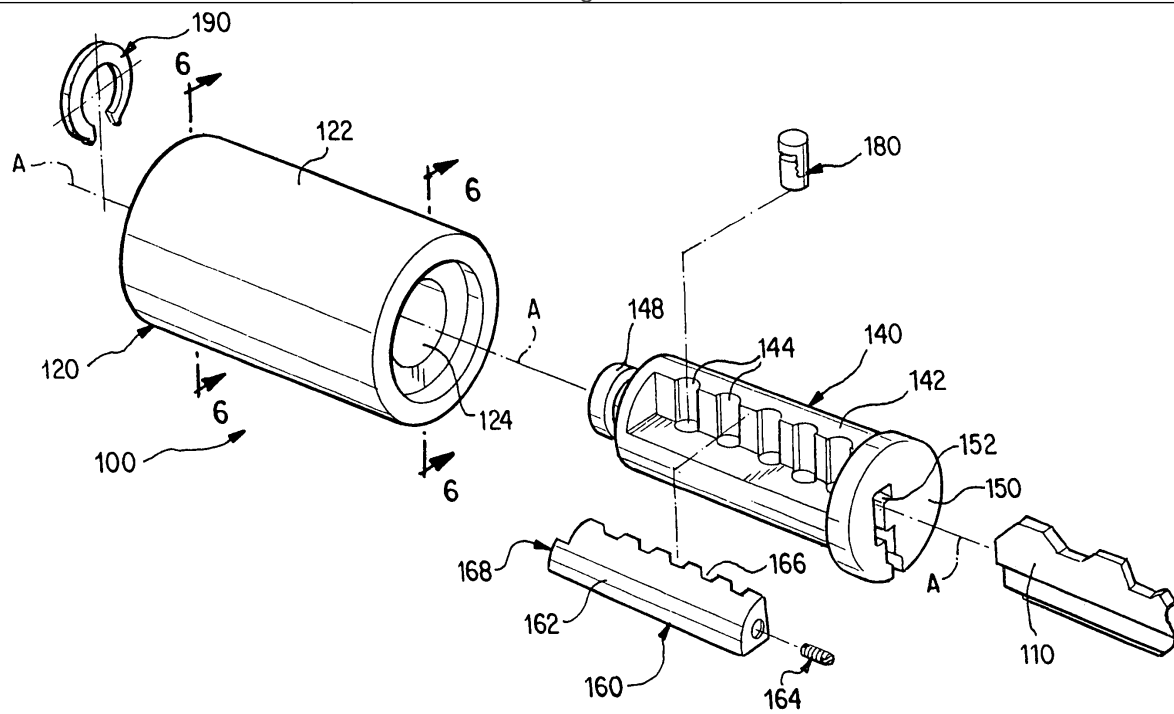
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Title

(WO200479134)

Rekeyable lock cylinder assembly with adjustable pin lengths

Images



Abstract

(WO2004/079134)

Certain exemplary embodiments of the present invention provide a **rekeyable lock cylinder**, comprising: a **cylinder** body having a longitudinal axis; **and** a plug assembly **and** disposed in said **cylinder** body, said plug assembly comprising a plug body **and** a backing rack combinable to cooperatively define a plurality of plug pin chambers each of said plug pin chambers housing a corresponding plug pin comprising a first plug pin portion releaseably engageable with a second plug pin portion, said backing rack relatively movable with respect to said plug body parallel to said longitudinal axis to allow disengagement of said first plug pin portion from said second plug pin portion. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. This abstract is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.

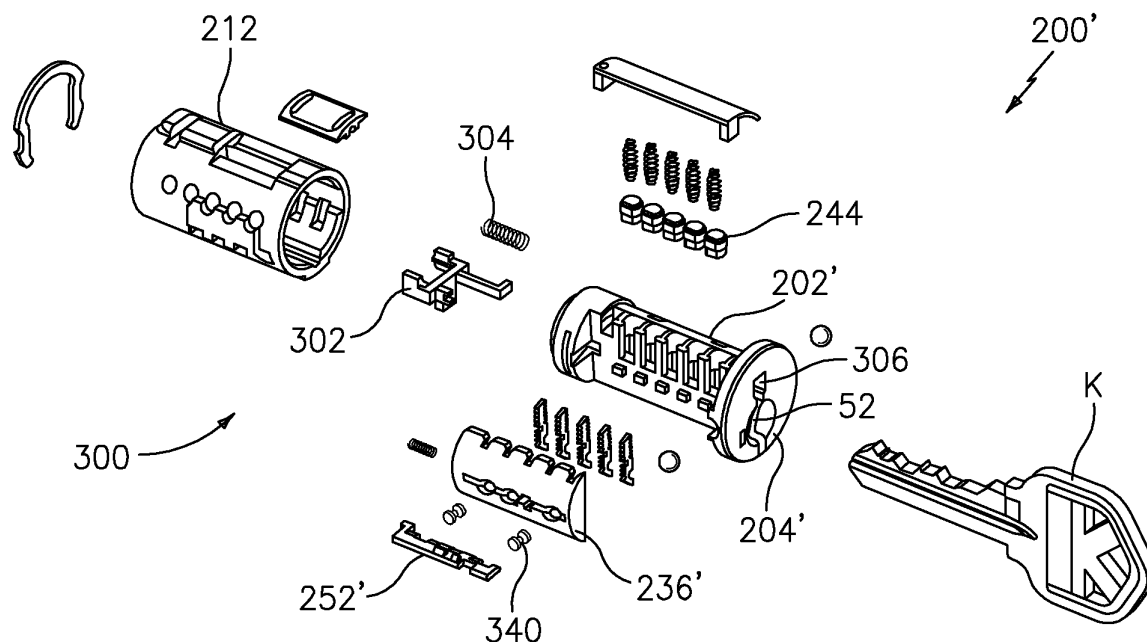
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Title

(US8739587)

Rekeyable lock assembly with blown **cylinder** protection

Images

**Abstract**

(US20110041579)

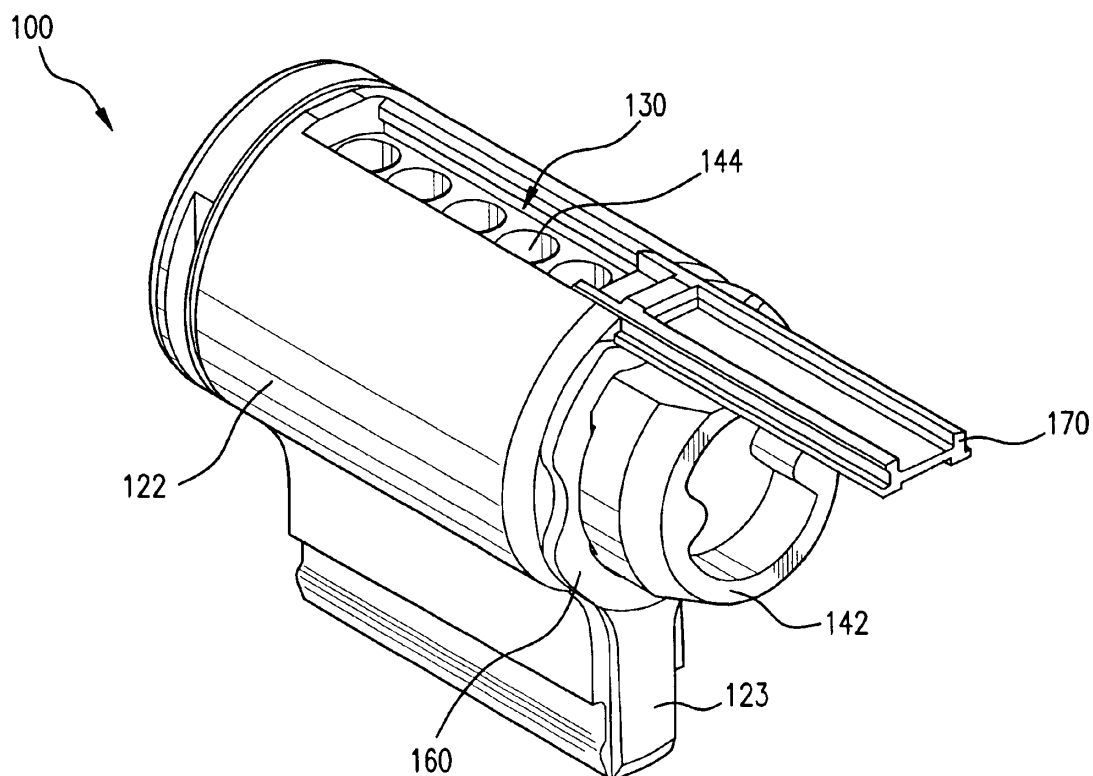
A **rekeyable lock cylinder** includes a plug body with a keyway opening along a longitudinal axis **and** a multiple of channels transverse to the axis. A locking bar generally parallel to the longitudinal axis, the locking bar having an extension. A slide movably mounted to an end section of the plug body, the slide having a slot which selectively permits passage of the extension during a rekeying procedure.

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Title

(WO200479135)

Rekeyable lock**Images**

**Abstract**

(WO2004/079135)

Certain exemplary embodiments of the present invention provide a **rekeyable lock cylinder**, comprising: a **cylinder** body having a longitudinal axis **and** defining a longitudinally spaced, radially-aligned first plurality of pin chambers, each of said first plurality of pin chambers adapted to house a corresponding first pin, said **cylinder** body further defining a longitudinally extending slot therethrough; **and** a plug assembly disposed in said **cylinder** body, said plug assembly comprising a plug body defining a second plurality of pin chambers, each of said second plurality of pin chambers adapted to house corresponding second pin.

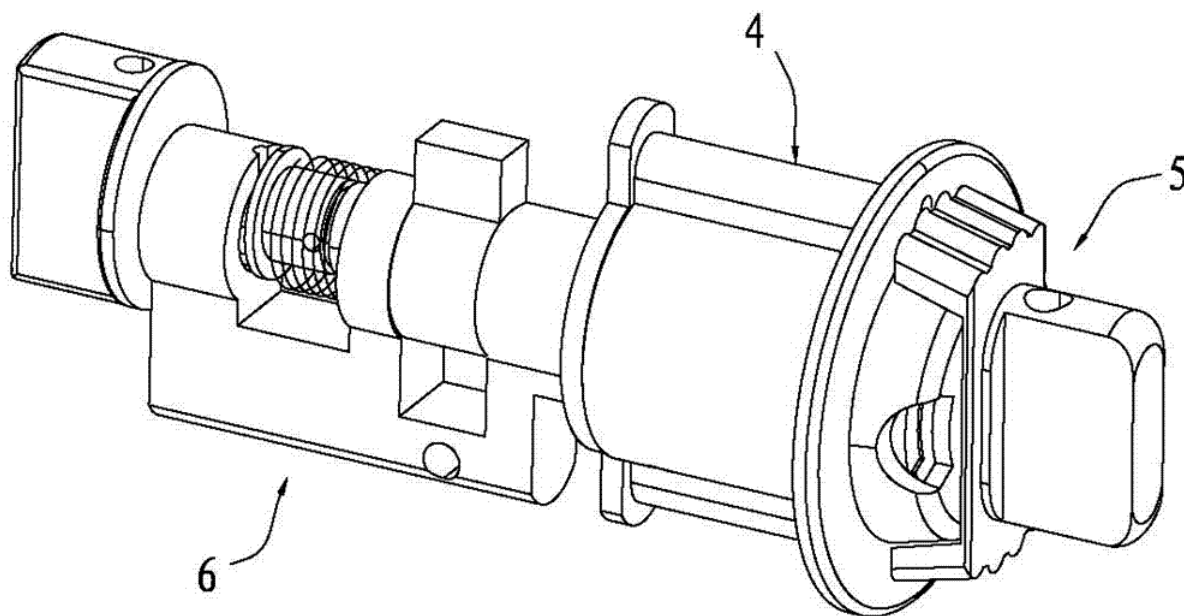
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Title

(CN104948018)

Safe **lock** capable of swallowing **and** clamping silver paper, soft glue **and** similar unlocking tool **and** key thereof

Images



Abstract

(CN104948018)

The invention discloses a safe **lock** capable of swallowing **and** clamping silver paper, soft glue **and** a similar unlocking tool. The safe **lock** capable of swallowing **and** clamping the silver paper, the soft glue **and** the similar unlocking tool comprises a fixed **lock cylinder**, a movable **lock cylinder**, a rotating drum, an outer shell, a toggle device **and** a linkage-separating type inner **lock**. The movable **lock cylinder** is arranged in the fixed **lock cylinder**. One end of the movable **lock cylinder** is connected with the toggle device, **and** the other end of the movable locks is connected with the linkage-separating type inner **lock**. A limiting ejecting elastic pin is arranged on the side face of a limiting portion of the fixed **lock cylinder**. An area for blocking a marble is arranged in a sleeving portion of the fixed **lock cylinder**. The safe **lock** capable of swallowing **and** clamping the silver paper, the soft glue **and** the similar unlocking tool has the advantages of being ingenious **and** reasonable in design; the limiting ejecting elastic pin is arranged on the side face of the limiting portion skillfully, implement is easy, multiple antitheft structures are arranged, the antitheft effect is good, **and** at the same time, a **lock hole** **and** the marble are arranged in a staggered structure, so that even a theft can insert the silver paper, the soft glue or other unlocking tool into the **lock hole**, directly contacting **and** pressing the marble can not be achieved, then the phenomenon that the **lock** is opened is completely eradicated, **and** the safety performance is good; the use is convenient **and** easy, **and** wide-range application an popularization are facilitated.

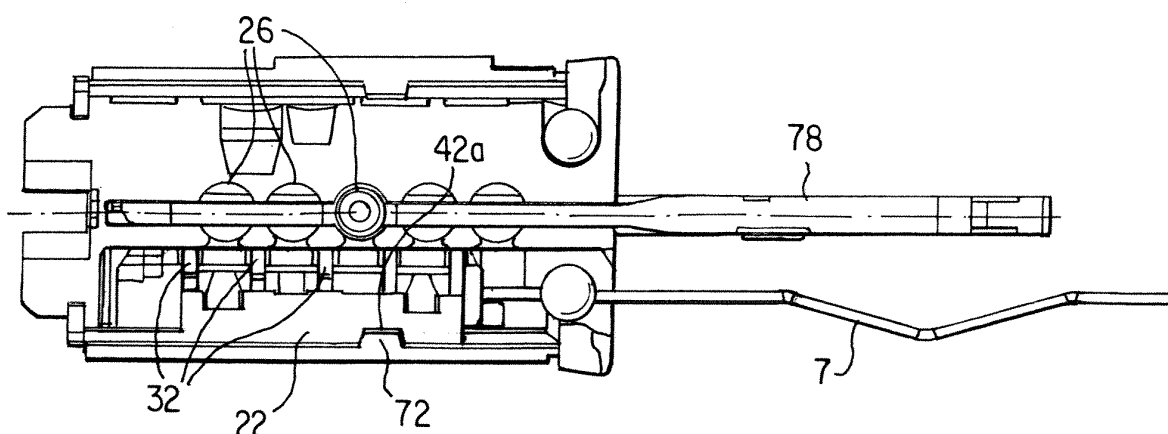
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Title

(EP2084351)

Rekeyable lock assembly **and** method of operation

Images



Abstract

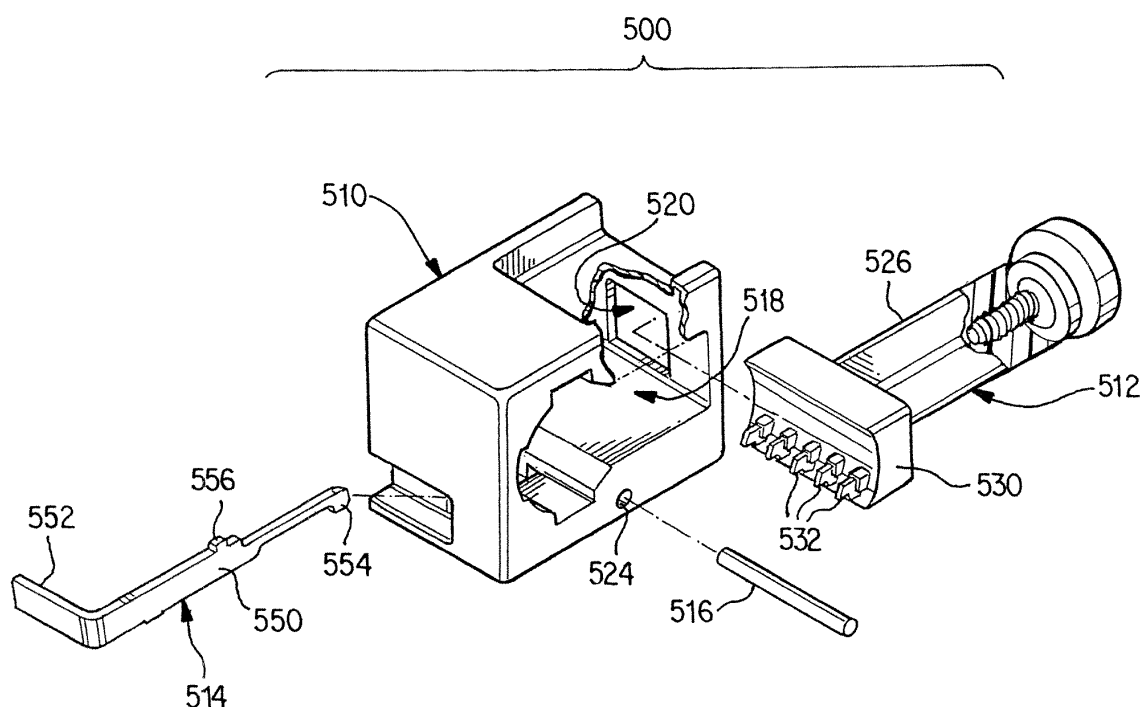
(EP2084351)

A **lock cylinder** has a reset condition wherein the **lock cylinder** can be put into a 'learn' mode. In the 'learn' mode, the original key can be removed **and** replaced by replacement key **and**, when the replacement key is removed, the **lock cylinder** 10 is rekeyed to the new key. The original key no longer operates the rekeyed **lock cylinder** 10.

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Title

(WO200750411)

Reset fixture for **rekeyable lock** assembly**Images****Abstract**

(WO2007/050411)

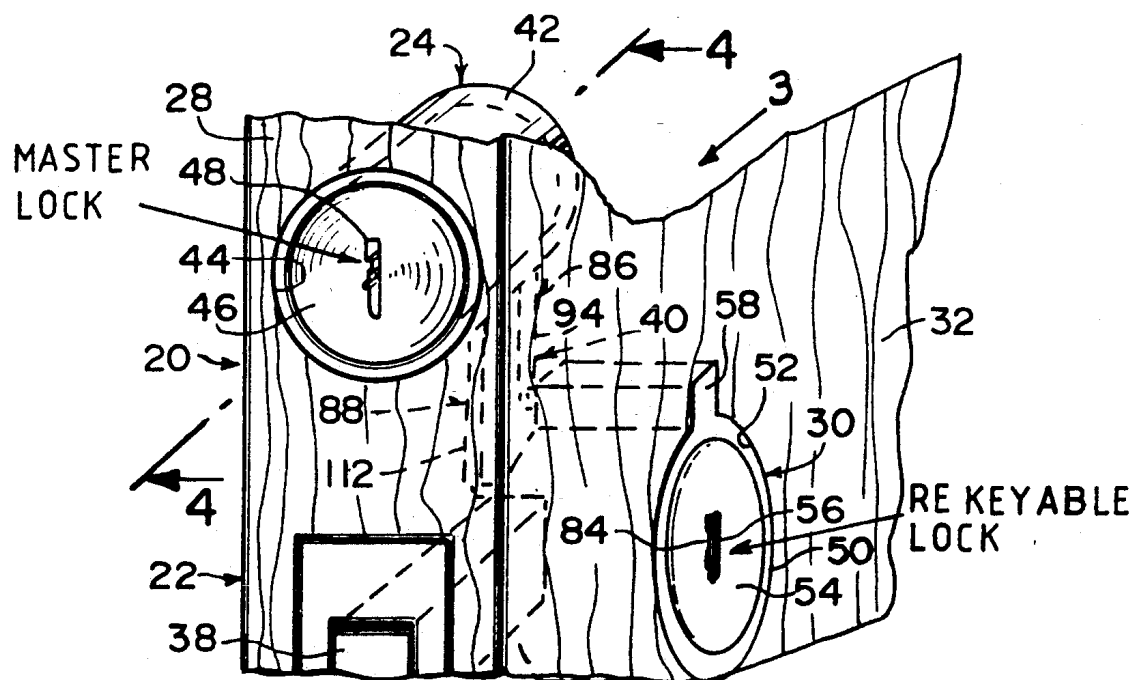
A reset fixture for a **rekeyable lock cylinder** includes a housing with a central recess for receiving a **cylinder** body. A first opening communicating with the central recess is defined in the housing for receiving a reset tool. A second opening communicating with the central recess is defined in the housing for receiving a bracing bar.

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Title

(US5233850)

Rekeyable lock system**Images**



Abstract

(US5233850)

A **rekeyable lock** which includes a master **lock** activated by a master **lock** key, a **rekeyable lock** adjacent the master **lock** having a **lock mechanism** activated by a keyable **lock** key, **and** structure operably extending from the master **lock** to the **rekeyable lock** for changing the length of the **lock mechanism** within the **rekeyable lock** so that a different **rekeyable lock** key can be utilized to operate the **rekeyable lock**.

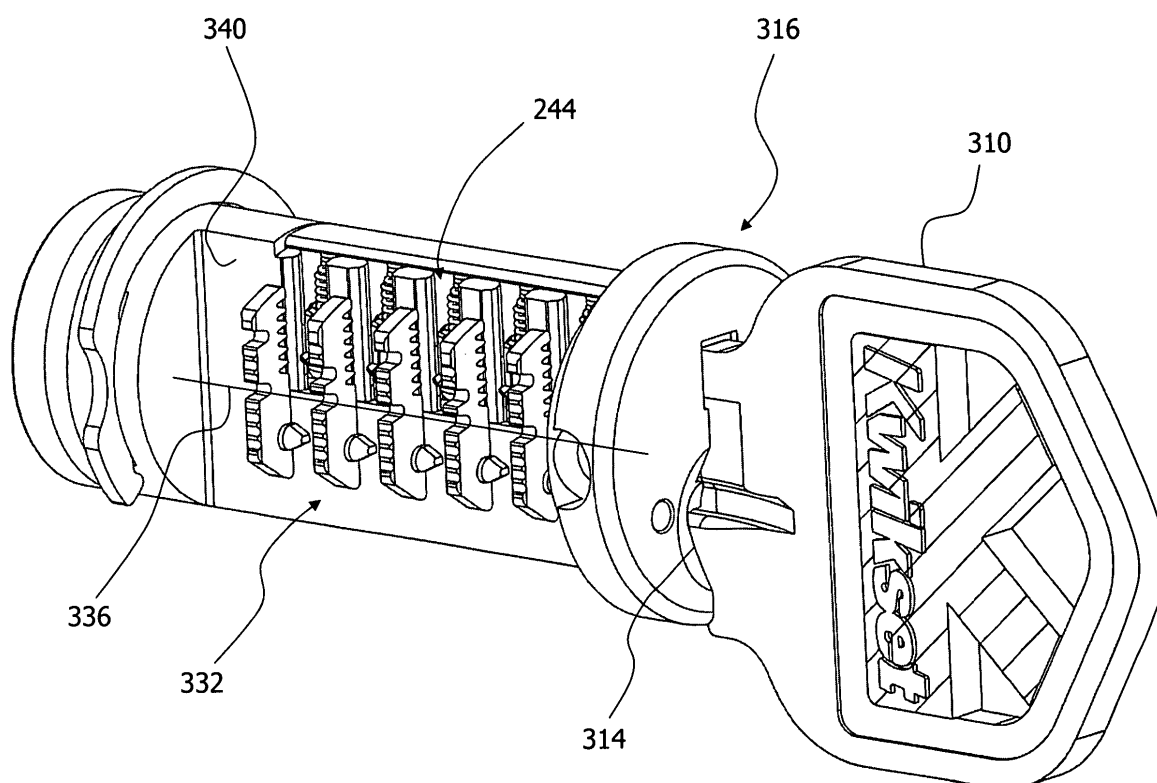
Family 16/100 - FAMPAT - ©Questel

Title

(WO200665609)

Keying system **and** method

Images



Abstract

(WO2006/065609)

A keying system, method and kit, wherein a plurality of replacement master racks are installed in a movable carrier assembly of a cylinder lock with the aid of a rack removal key and a rack removal tool configured for insertion into a keyway. The rack removal key has a first cut defining a first lift amount, and the rack removal tool has a second cut defining a second lift amount, the second lift amount being greater than the first lift amount.

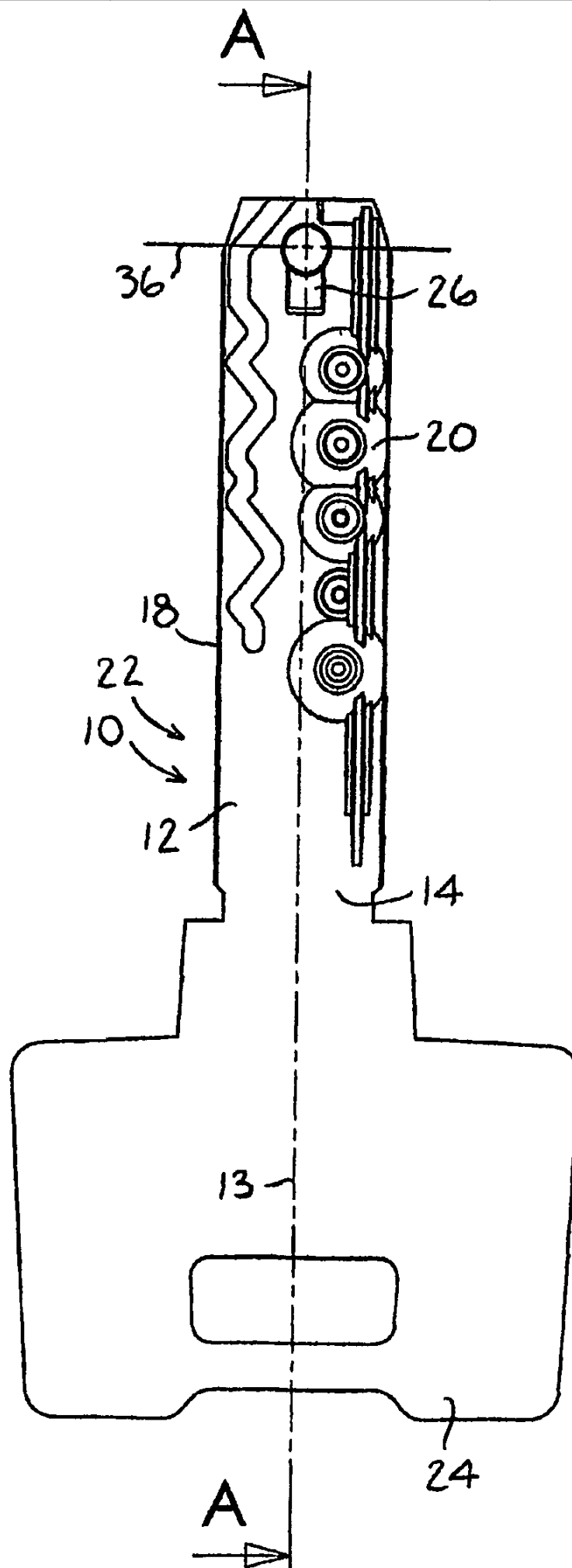
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Title

(EP1738044)

Key combination element in key blank and key

Images



Abstract

(EP1738044)

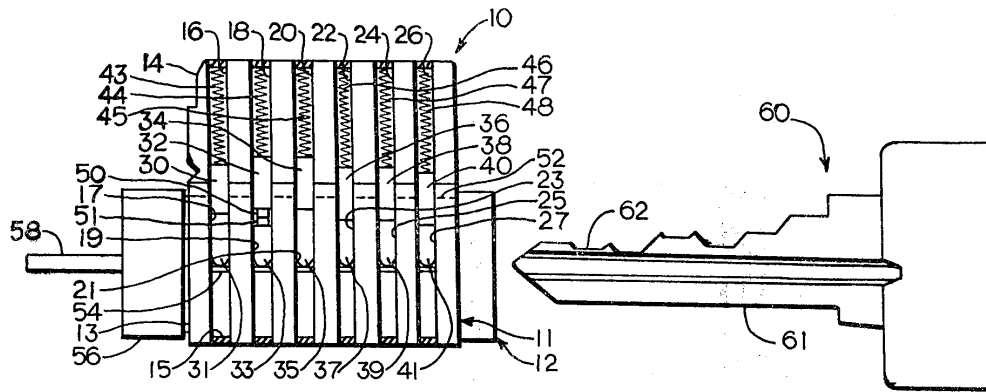
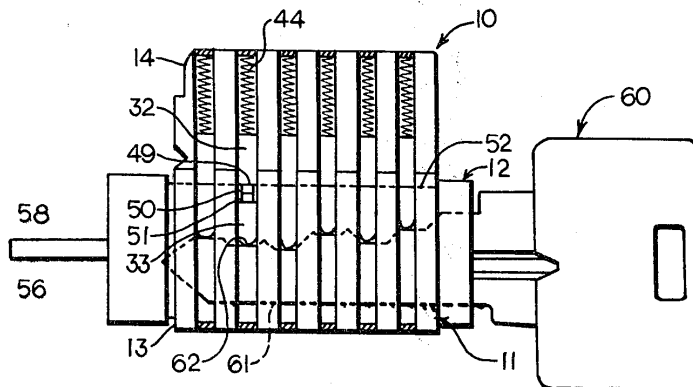
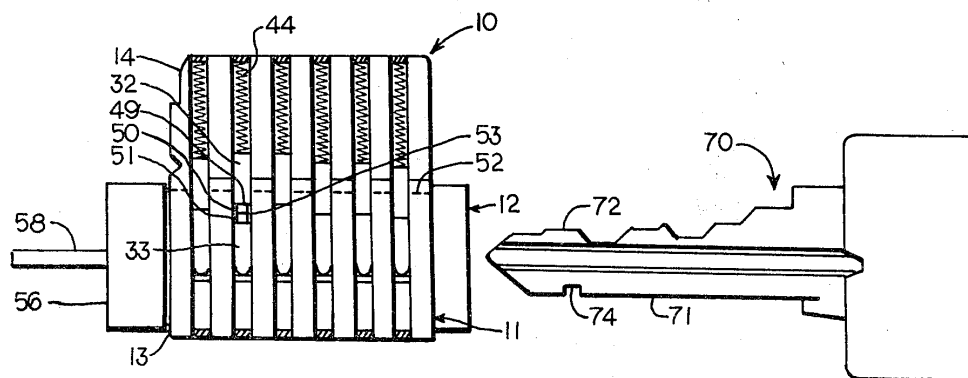
A key blank including a generally elongate shaft portion defining first **and** second generally flat oppositely directed side surfaces, joined by edge surfaces, at least one of the first **and** second side surfaces cuttable to form key cuts that define a key combination surface, **and** at least one key combination element movably disposed in the elongate shaft portion **and** adapted for touching a **lock** combination element disposed in a **cylinder lock** plug, wherein the at least one key combination element has inherent energy for applying an urging force against the **lock** combination element. A key formed from the key blank **and lock** therefore are also disclosed.

Family 18/100 - FAMPAT - ©Questel

Title

(EP-157967)

Rekeyable lock method **and** apparatus.**Images**

**FIG. 1****FIG. 2****FIG. 3****Abstract**

(EP0157967)

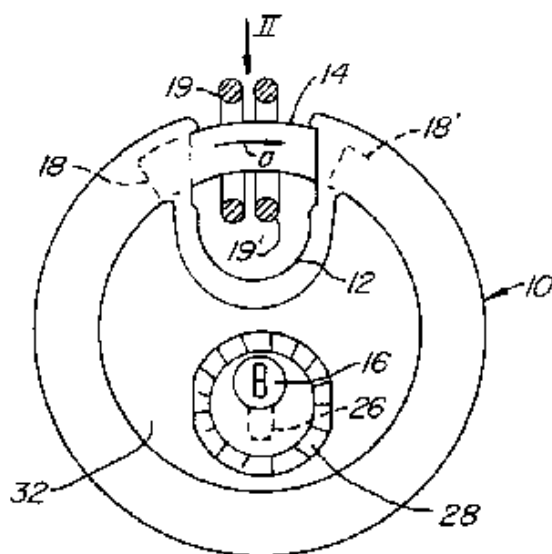
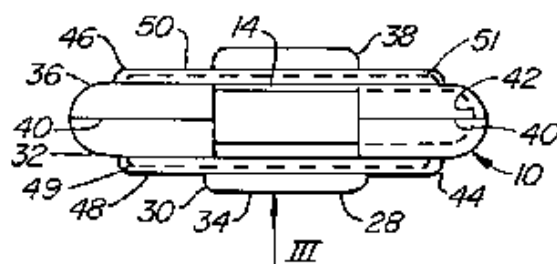
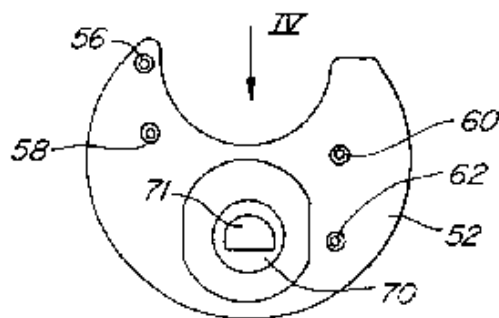
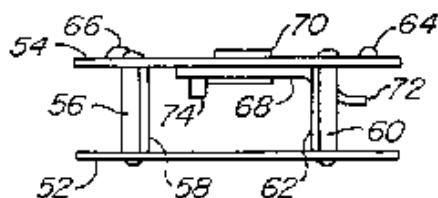
A **rekeyable cylinder lock** (10) includes removable spacers (50, 51) between top (32) **and** bottom tumbler pins (33), **and** a key bit device (70) for removing a spacer (50) from the pin chamber (19) through a key way. The key bit device (70) includes bitting (72) thereon to position the spacer (50) in the top pin chamber (18) **and** a cut (74) in the opposite side thereof adapted to capture the spacer (50) from the top pin chamber (18) **and** remove it from the **lock** (10). The spacer (50) is preferably smaller in diameter than the tumbler pins, (32, 33), **and** the cut (74) is large enough to receive the spacer (50) but too small to receive the tumbler pin (32). In another embodiment of the invention, a key bit device (90) is provided for placing a spacer (51) into a pin chamber (18) of the **lock** (10) to rekey the **lock** (10). It includes a **mechanism**, such as a spring (95), in a cut (94) on the back side of the key bit (91) that is adapted to force a spacer (51) out of the cut (94) **and** into the pin chamber (18) in the **lock** (10).

Family 19/100 - FAMPAT - ©Questel

Title

(EP-872615)

Padlock

Images**FIG. 1.****FIG. 2.****FIG. 3.****FIG. 4.****Abstract**

(EP0872615)

A **rekeyable** padlock comprises a **lock** housing, a generally U-shaped recess formed in said **lock** housing **and** having an entry side, a guide channel defined within said housing, a shackle movable within said channel between an open position in which it is retracted into said housing **and** frees said entry side of said recess, **and** a closed position in which it is partly

located outside of said housing and closes off said entry side, a **lock cylinder**, means removably mounting said **lock cylinder** in said **lock** housing, a cam movable by said **lock cylinder** and having an abutment member engageable with said shackle to move said shackle from said open position to said closed position and vice versa, a latch member biased into position in front of a shoulder of said mounting means prohibiting withdrawal of said **lock cylinder** and means accessible through said recess when said shackle is in said open position, but not when said shackle is in said closed position, for releasing said latch member from said shoulder to permit withdrawal of said **lock cylinder** from said **lock** housing and replacement of said **lock cylinder** by a substitute **lock cylinder**.

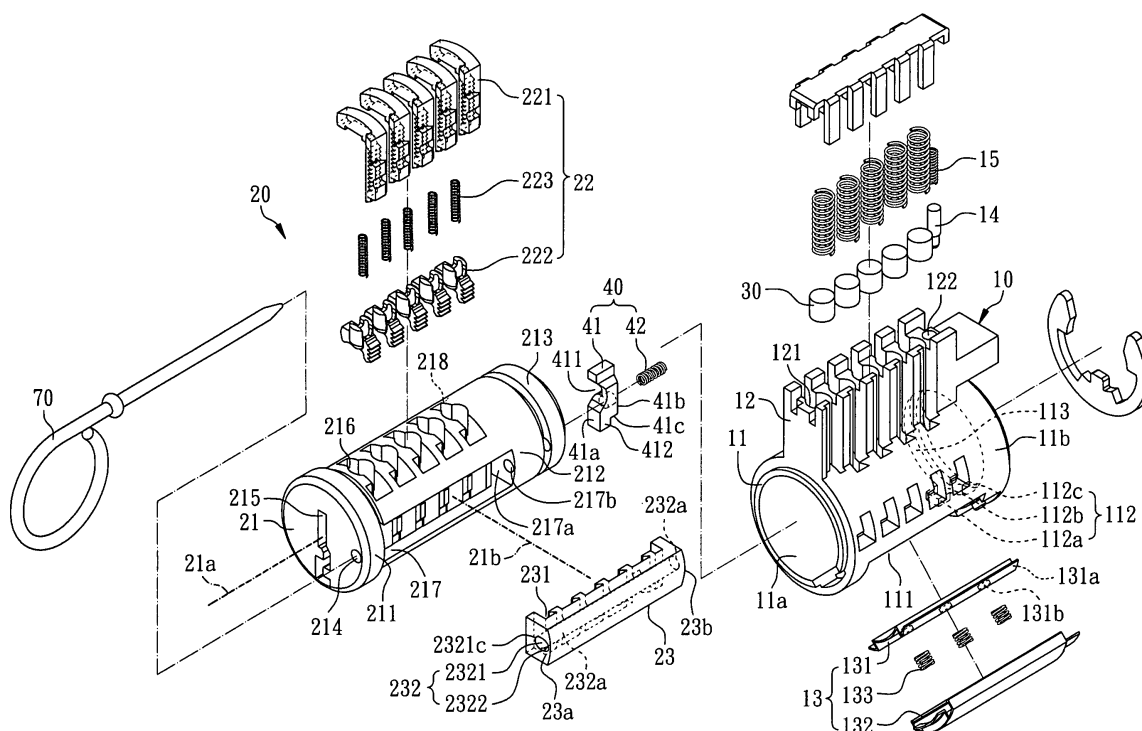
Family 20/100 - FAMPAT - ©Questel

Title

(US7624606)

Rekeyable lock cylinder, plug assembly of the same and method for rekeying the same

Images



Abstract

(US7624606)

A **rekeyable lock cylinder** comprises a **cylinder** body and a plug assembly disposed within the **cylinder** body. The plug assembly comprises a plug body, a plurality of pin assemblies and a guide bar. The plug body has a longitudinal axis, a transverse axis perpendicular to the longitudinal axis and a tool-receiving hole. Each of the pin assemblies is movably disposed in the plug body and comprises a first rack component and a second rack component selectively engaging with the first rack component. The guide bar is coupled to the plug body and has a plurality of pin runners for engaging with the first rack components and a tool-receiving portion exposed by the tool-receiving hole. The guide bar is capable of moving along transverse axis-direction of the plug body to disengage the first rack components from the second rack components.

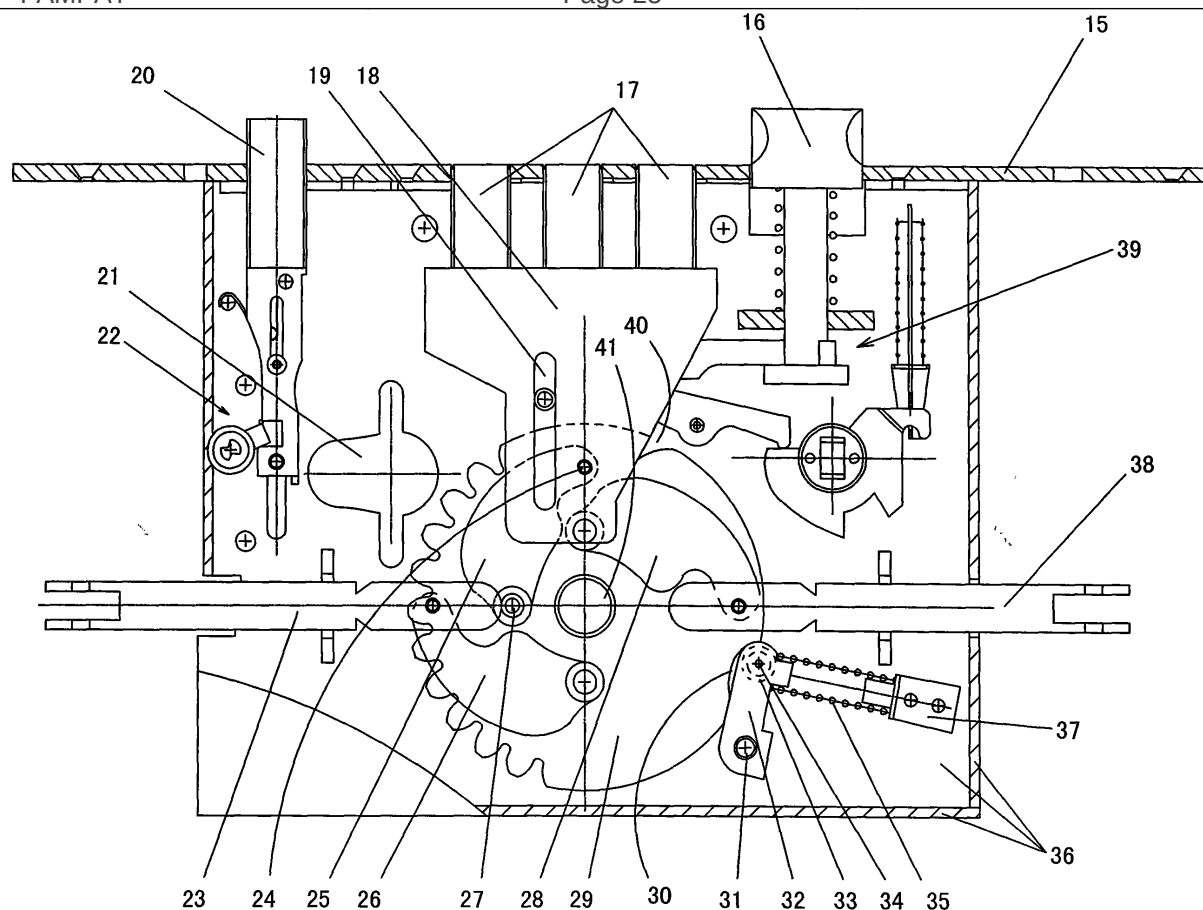
Family 21/100 - FAMPAT - ©Questel

Title

(CN203430213U)

Gear driving type door **lock**

Images



Abstract

(CN203430213)

The utility model provides a gear driving type door **lock**, which comprises a **lock** box, wherein a side panel is arranged at the side edge of the **lock** box, a main **lock** bolt connecting plate is arranged in the **lock** box, the main **lock** bolt connecting plate is connected with a main **lock** bolt, the main **lock** bolt is matched with a bolt hole formed in the side panel, the main **lock** bolt connecting plate is connected with a driving **mechanism**, a **lock** body inserting hole is formed in the **lock** box, the **lock** body is inserted and fixed in the **lock** body inserting hole and is connected with the driving **mechanism**, the driving **mechanism** comprises a gear plate, the gear plate is arranged in the **lock** box through a center connecting shaft and is movably connected with one end of a first driving plate through a driving plate rotating shaft in a position near the center on the gear plate, the other end of the first driving plate is movably connected with the main **lock** bolt connecting plate through a pin shaft, a gear is connected with a **lock** core arranged in the **lock** body, and the gear is engaged with the gear plate. The structure is simple, the manufacturing cost is low, and the gear arranged on the **lock** core can be clamped in the **lock** box after the **lock** body and the **lock** core are damaged, so the driving **mechanism** of the gear plate cannot be out of control, the extending state of the **lock** bolt is maintained, and higher safety and reliability are realized.

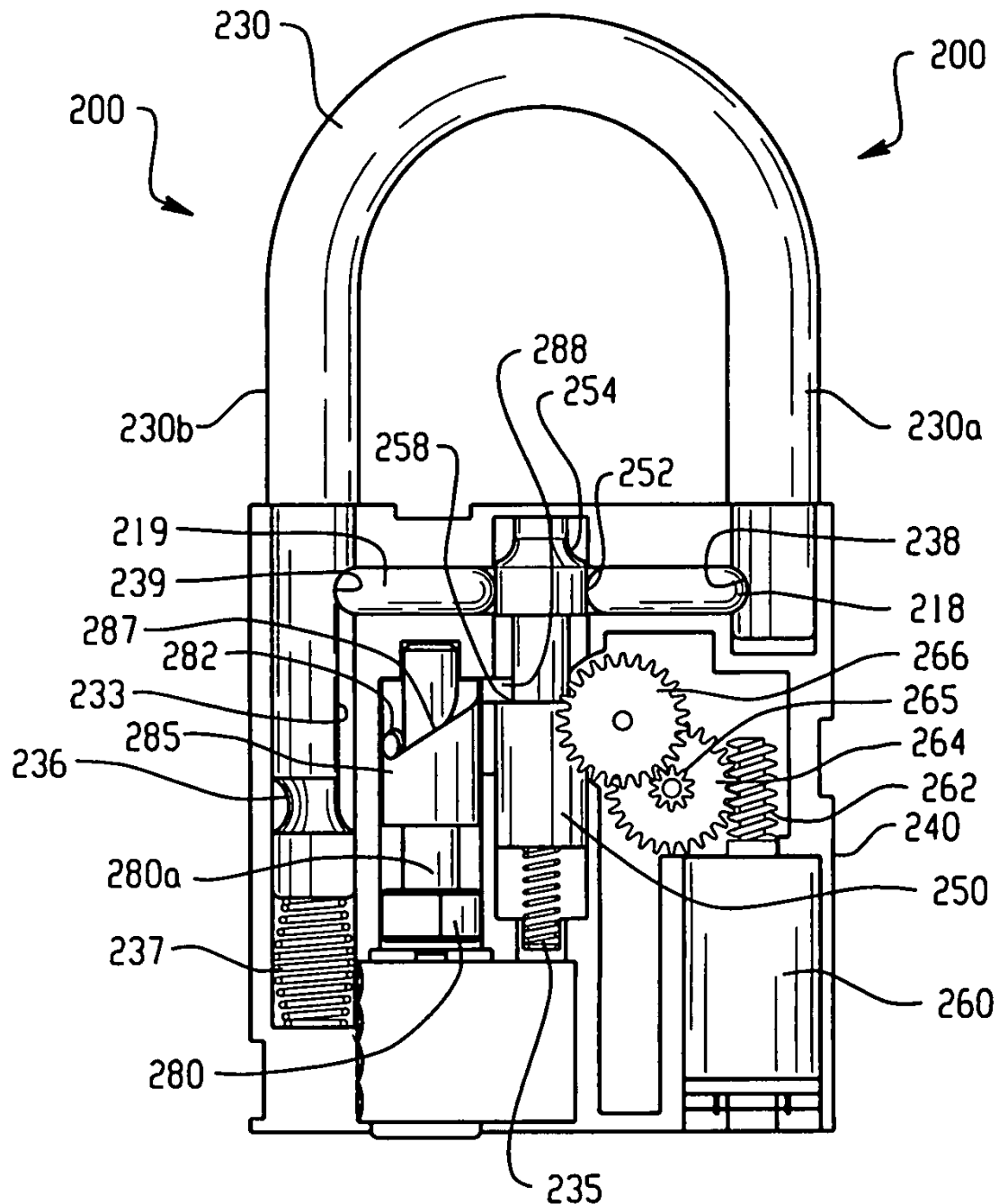
Family 22/100 - FAMPAT - ©Questel

Title

(US20110041577)

Rekeyable lock assembly with blown **cylinder** protection

Images



Abstract

(EP1891290)

A **lock** is provided with a housing, a shackle movably coupled to the housing, **and** a locking arrangement movable between a locked state **and** an unlocked state. The **lock** includes a receiver arranged to receive a remote input signal including at least one authorization code. The **lock** includes a logic applying arrangement programmed to selectively store at least one access code responsive to a corresponding authorization code received by the receiver **and** to energize the locking arrangement to move from the locked state to the unlocked state when an authorization code received by the receiver corresponds with one of a set of stored access codes.

Family 24/100 - FAMPAT - ©Questel

Title

(EP2585659)

Mortise **lock cylinder**

Images

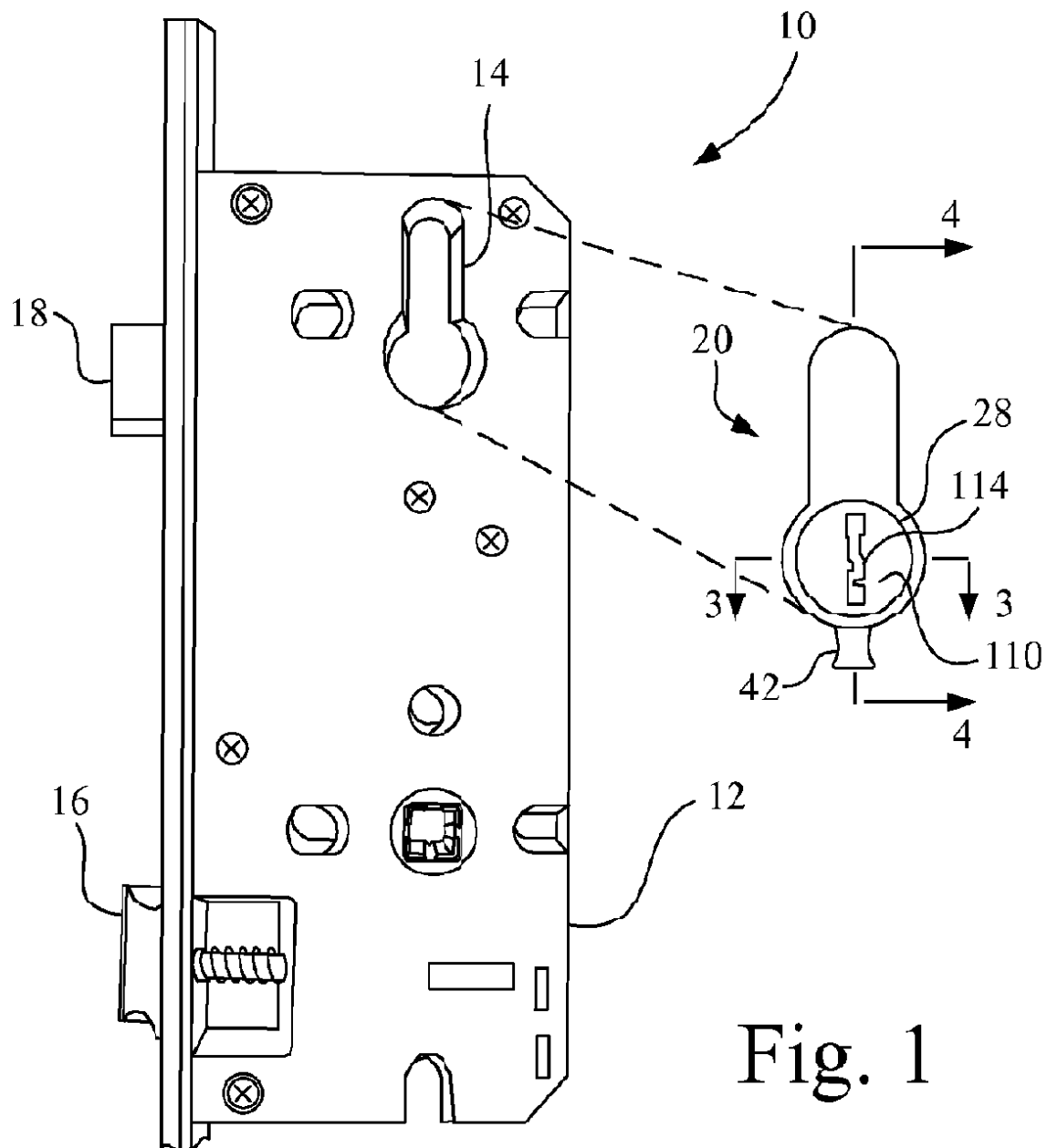


Fig. 1

Abstract

(EP2585659)

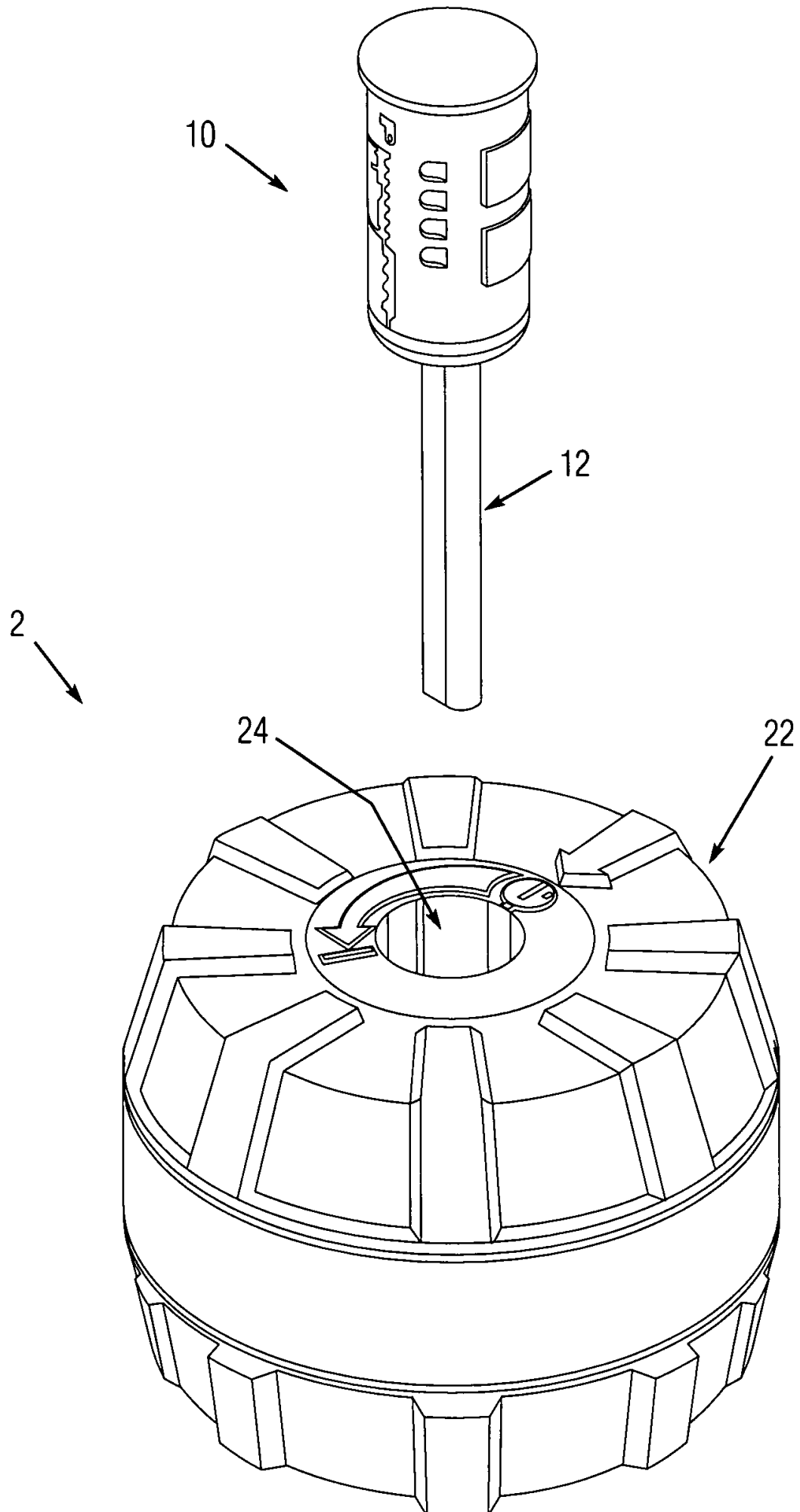
A mortise **lock cylinder** includes a turn-piece assembly including a turn-piece in driving engagement with a first clutch. A keyed **cylinder** assembly includes a plug body in driving engagement with a second clutch. A first portion of the turn-piece assembly is received in the first end of a housing **and** a second portion of the keyed **cylinder** assembly is received in the second end of the housing. A cam is positioned in the cam slot **and** mounted for rotation. The mortise **lock cylinder** is configured such that the cam always is drivably engaged with the first clutch, **and** configured such that the second clutch is drivably coupled to the cam via the first clutch when the key is inserted into the keyed **cylinder** assembly.

Family 25/100 - FAMPAT - ©Questel

Title

(WO200842689)

Reset cradle for a quick rekey **cylinder****Images**



Abstract

(WO2008/042689)

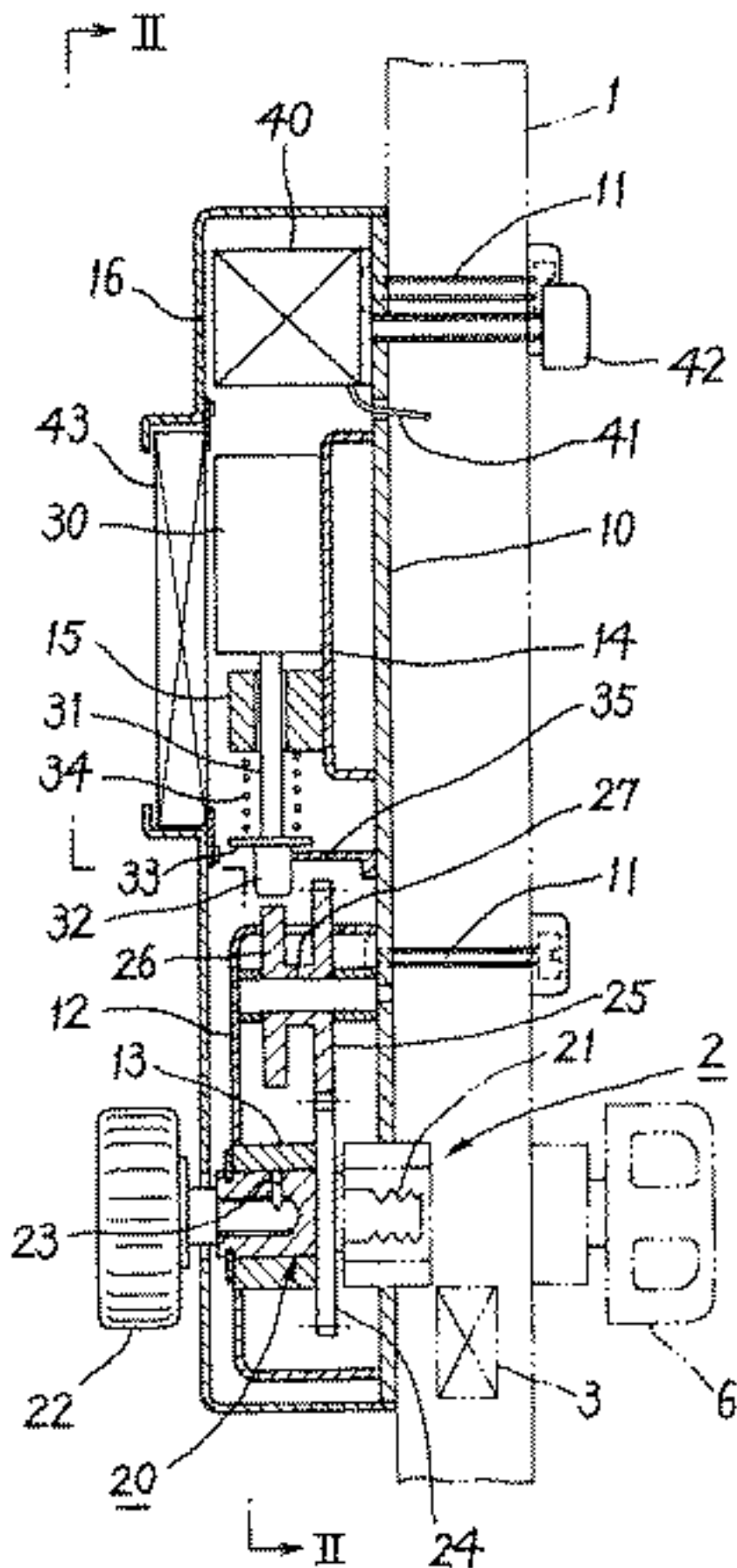
A reset cradle with integral reset tool assembly, that automatically positions the **lock cylinder**, the reset tool assembly, **and** all associated components, **and** choreographs the operations that need to be performed in the right sequential order. The reset cradle generally comprises a two-section housing including a base section with centrally-protruding tubular post into which the **lock cylinder** may be inserted, **and** a separate hub section rotatably seated on the base. Inside the housing, a cam is engaged against the post **and** is rotatable thereabout along with relative rotation of the two-section housing. A reset member is also operative inside the housing, **and** is engaged by rotation of the cam for axial displacement into the **lock cylinder**. Similarly, a detent pin is slidably seated in the post **and** is engaged by the cam for axial displacement into the **lock cylinder**. Relative rotation of the two-part housing resets the **lock cylinder** via the reset member **and** detent pin, **and** allows the **lock cylinder** to be placed in a learn mode for rekeying without a valid key.

Family 26/100 - FAMPAT - ©Questel

Title

(JP08189233)

Electric **lock****Images**



Abstract

(JP08189233)

PURPOSE: To provide an electric **lock** simple in structure by utilizing the whole of an existing **cylinder lock**.

CONSTITUTION: A post-fitting key box is installed in such a manner as to cover a keyway of a **cylinder lock** 2 which is

opened in the door outer surface, and a locking and releasing rod 20, one end of which forms a stem part 21 of a master key of the cylinder lock and is inserted in the keyway of the cylinder lock, and the other end of which is projected over the key box and connected to a rotatably supported external operating member 22 is provided in the key box. A locking cam 26 is linked with the locking and releasing rod 20 and rotated, interlocking with the rotation of the rod, and the rotation of the locking cam 26 is controlled by a plunger 31 of a solenoid 30.

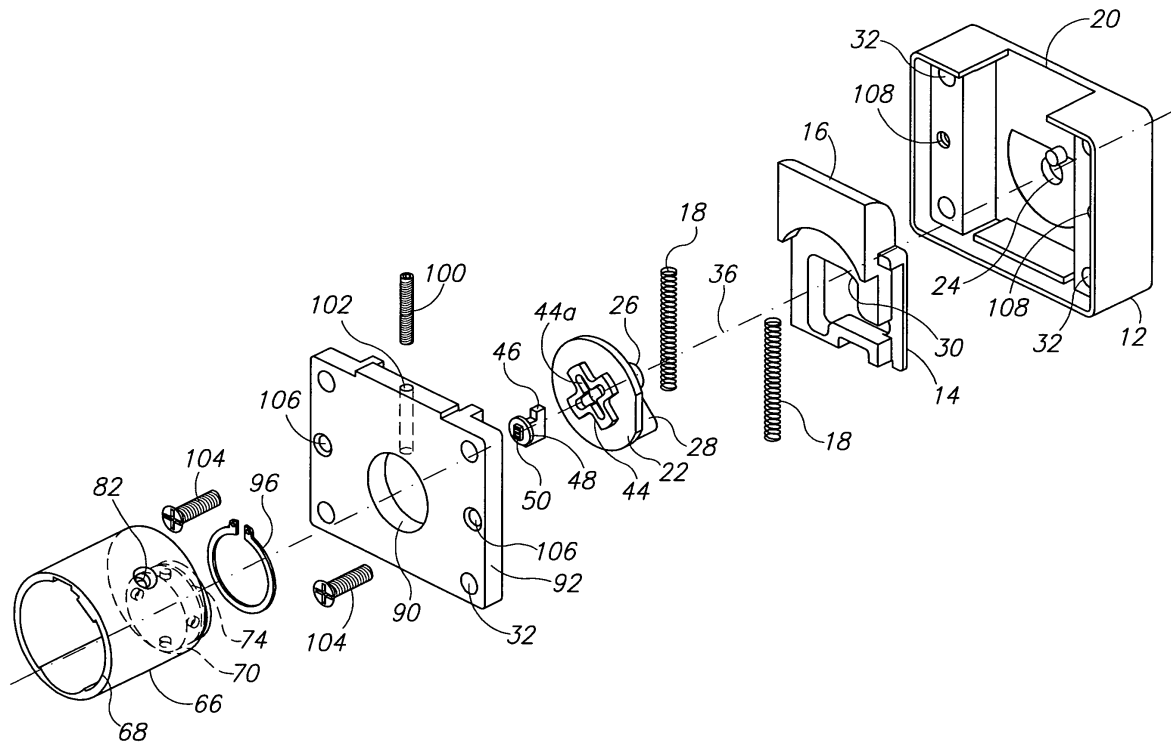
Family 27/100 - FAMPAT - ©Questel

Title

(US7874189)

Field-reversible cabinet latch lock

Images



Abstract

(US20080302144)

A four-way, field-reversible self-latching cabinet lock includes a cylinder and plug assembly shell that is rotatable with respect to a bolt housing cover for the lock. A locking device is provided to fix the cylinder and plug assembly shell in one of four orthogonal positions with respect to the bolt housing cover. The bolt housing cover is receivable by a bolt housing and conventional self-latching latch bolt. In this manner, pins in the cylinder and plug assembly may be retained in a desirable vertical position while a throw of the bolt can be adjusted to vertical, inverted, left-hand, and right-hand positions in the field without special tools or additional parts.

Family 28/100 - FAMPAT - ©Questel

Title

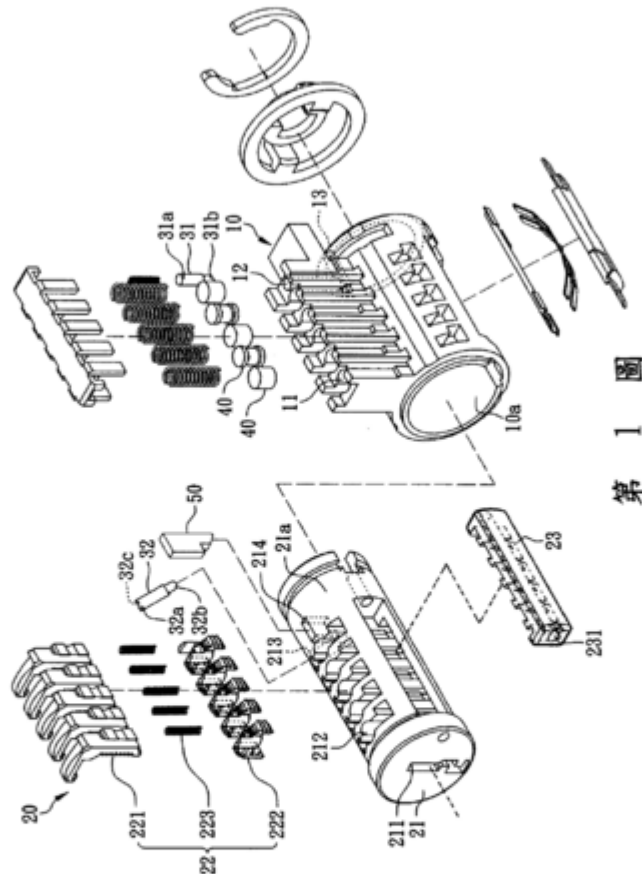
(TWI373548)

Rekeyable lock cylinder with foolproof mechanism

Images

201118227

八、圖式：



第 1 圖

Abstract

(TW201118227)

Rekeyable lock cylinder with foolproof **mechanism** comprises a **cylinder** body having a plurality of upper pinholes **and** a straight slot, a plug assembly disposed within the **cylinder** body **and** a foolproof assembly. The plug assembly includes a plug body, a plurality of assembled pins **and** a position block disposed within the plug body. The plug body has an outside wall, a keyhole, a plurality of lower pinholes **and** a through hole communicating with the outside wall **and** the keyhole. The assembled pins are disposed within the lower pinholes of the plug body respectively. The foolproof assembly includes a limiting member disposed within the straight slot **and** a supporting member disposed within the through hole, wherein the limiting member is capable of contacting against the supporting member. **Rekeyable lock cylinder** with foolproof **mechanism**

comprises a **cylinder** body having a plurality of upper pinholes **and** a straight slot, a plug assembly disposed within the **cylinder** body **and** a foolproof assembly. The plug assembly includes a plug body, a plurality of assembled pins **and** a position block disposed within the plug body. The plug body has an outside wall, a keyhole, a plurality of lower pinholes **and** a through hole communicating with the outside wall **and** the keyhole. The assembled pins are disposed within the lower pinholes of the plug body respectively. The foolproof assembly includes a limiting member disposed within the straight slot **and** a supporting member disposed within the through hole, wherein the limiting member is capable of contacting against the supporting member.

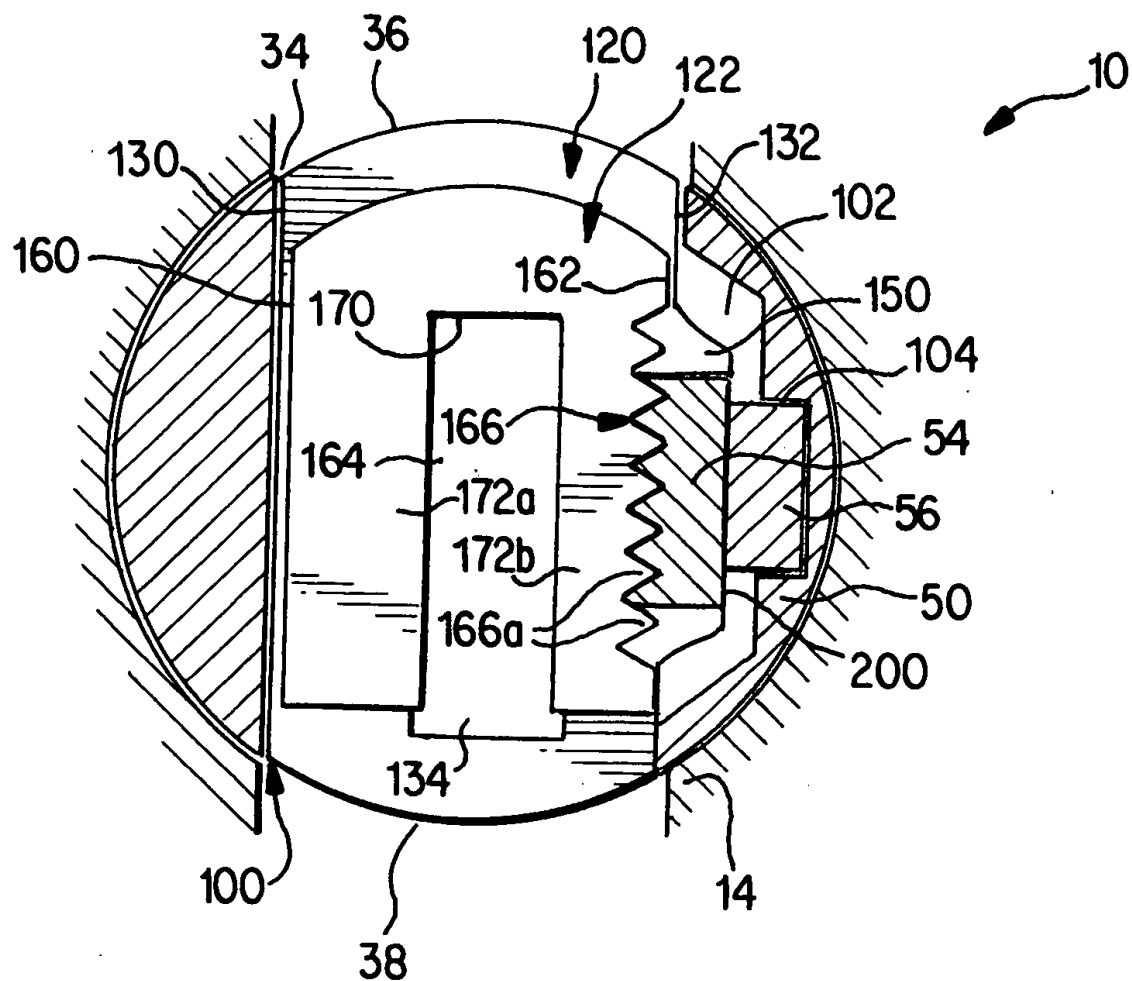
Family 29/100 - FAMPAT - ©Questel

Title

(WO200655281)

Rekeyable lock cylinder

Images



Abstract

(WO2006/055281)

A wafer-type lockset that employs wafer assemblies **and** locking keys to adjustably key the lockset. The wafer assemblies include a base wafer **and** a re-settable wafer that may be adjustably coupled to the base wafer. The locking keys are movable between a first position, in which the base **and** re-settable wafers are coupled to one another, **and** a second position, in which the base **and** re-settable wafers are uncoupled from one another. A key having a desired key profile may be employed to set or program the lockset. A method for rekeying a lockset is also provided.

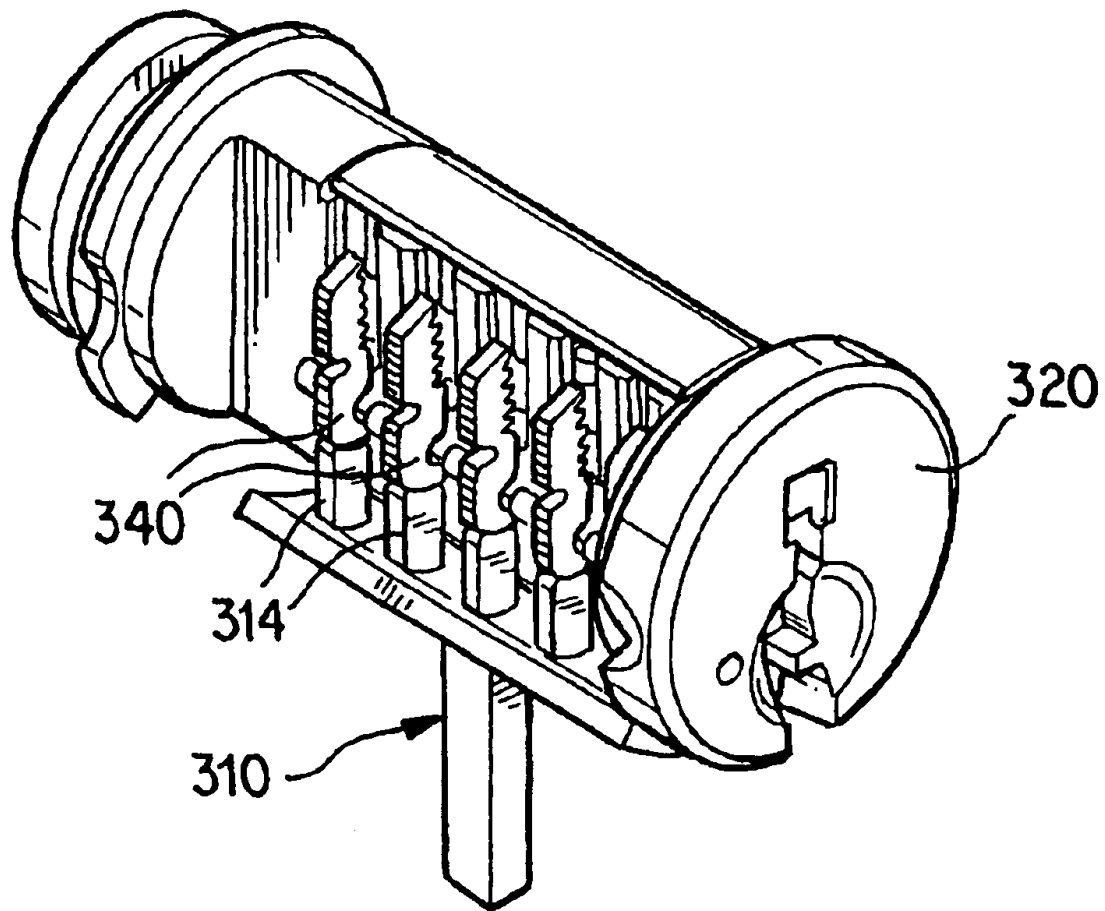
Family 30/100 - FAMPAT - ©Questel

Title

(WO200481322)

Devices, methods, **and** systems for keying a **lock** assembly

Images



Abstract

(WO2004/081322)

The present invention provides a **lock** keying system comprising: a **lock cylinder** (10) comprising: a **cylinder** body (12); a plug assembly (14) disposed in the **cylinder** body (12) and comprising a plurality of pins (113) and a one-to-one corresponding plurality of racks (92) for relocating the plurality of pins (113); and a rack alignment tool receiving aperture (335) defined by the **lock cylinder** (10); and a rack alignment tool (310) comprising: a base plate (312); and a plurality of spaced elongated prongs (314); each prong from the plurality of prongs comprising a first longitudinal end adapted to engage a corresponding one of the plurality of racks (92), each prong from the plurality of prongs dimensioned lengthwise to relocate to a first predetermined position the corresponding one of the plurality of racks, the first predetermined position common to each of the plurality of racks, each prong from the plurality of prongs comprising a second longitudinal end connected to the base plate.

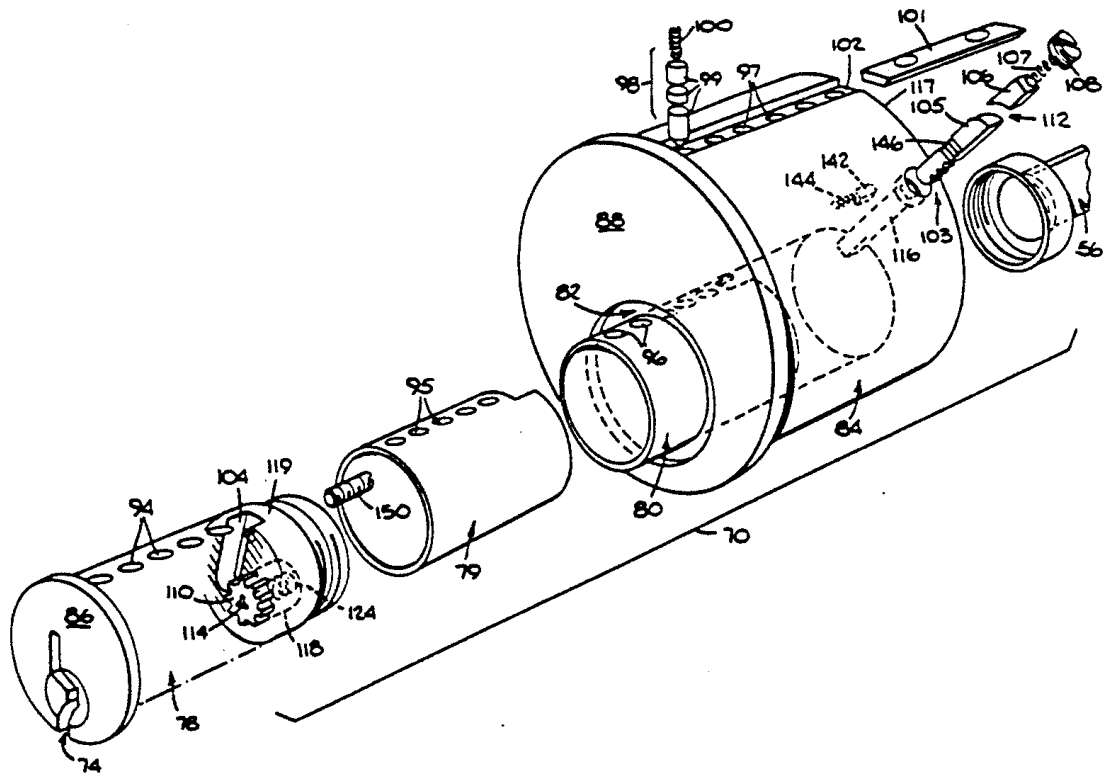
Family 31/100 - FAMPAT - ©Questel

Title

(WO9101425)

Lock adjustable to operate with different keys

Images



Abstract

(WO91/01425)

A **lock** which is **rekeyable** or programmable to operate with a different key from the exterior thereof without disassembling it or removing it from a **lock** assembly in which it is assembled is disclosed. The **lock** (250) may be rekeyed through the keyway so that the **lock** appears from the exterior thereof to be a conventional **lock**, or from the end opposite the keyway from the interior of a door, or from a side of the **lock** which requires disassembly of the **lock** from its **lock** assembly. The **lock** (250) includes structure defining a movable shear line that can be adjusted from the exterior of the **lock** without disassembling the **lock** itself. Such structure may comprise a rotatable cam (251) **and** a pin tumbler (262) **and** an axially adjustable set screw (284).

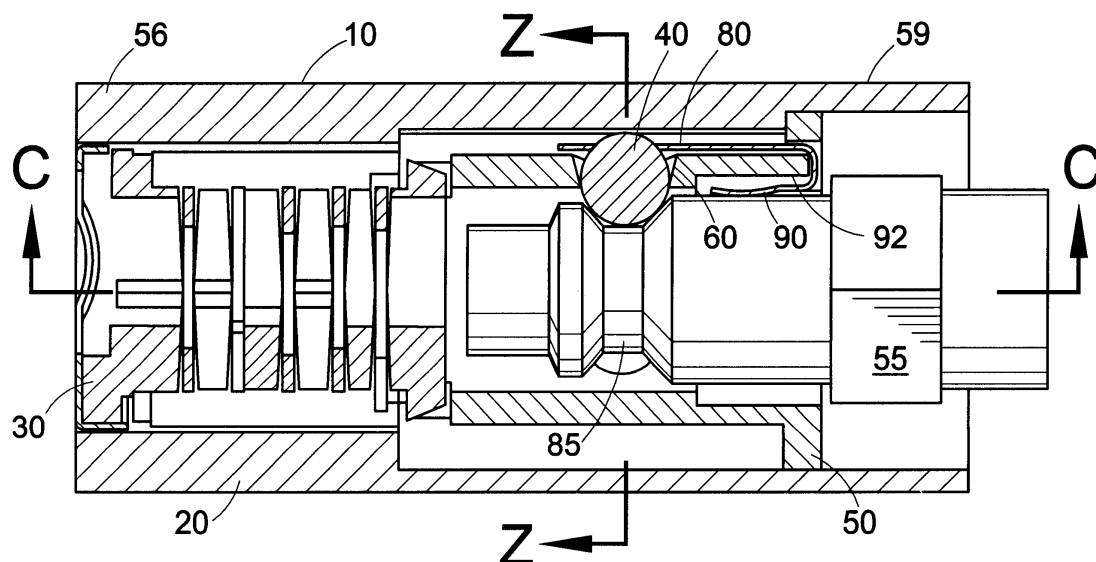
Family 32/100 - FAMPAT - ©Questel

Title

(US6854302)

Pneumatic tool **lock**

Images



Abstract

(US20030015007)

A tool **lock**, especially useful in preventing theft or unauthorized use of a tool. The tool **lock** has a housing in which a **lock cylinder** assembly **and** locking balls are disposed. The tool **lock** housing has an opening at one end in which a portion of a tool, such as a pneumatic fitting on a pneumatic tool, may be inserted **and** secured by the engagement of the locking balls. The tool **lock** housing may further include a shackle portion which can be used in conjunction with a cable, either integral or separate, padlock, or chain to secure the tool **lock** to another object.

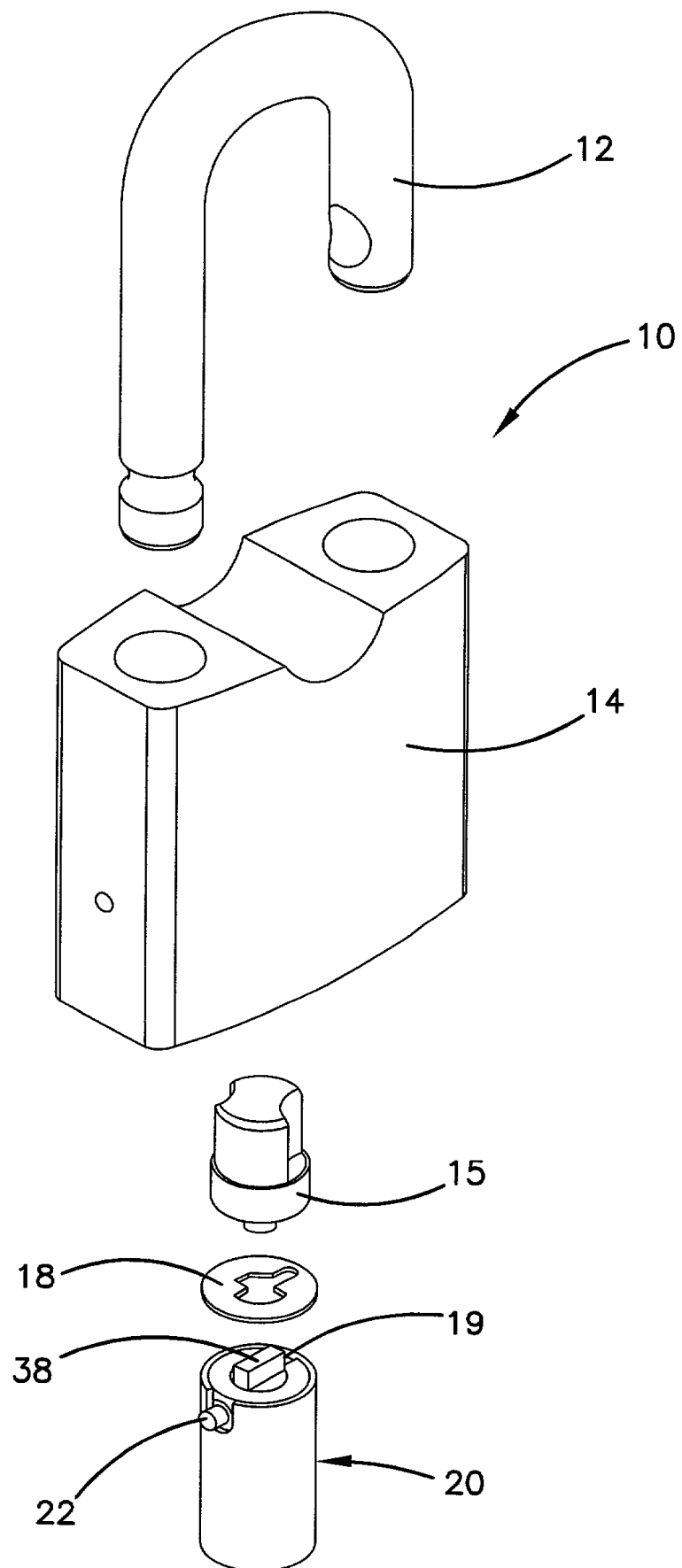
Family 33/100 - FAMPAT - ©Questel

Title

(US20030041630)

Rekeyable lock with circumferential pin configuration

Images



Abstract

(US20030041630)

This disclosure relates to a rekeyable tubular lock cylinder with a core. The core includes a first core piece having locking pin openings and a second core piece having replaceable pin openings. An outer sleeve is mounted over the first and second core pieces. The outer sleeve includes a sleeve end face defining a circular opening coaxially aligned with a hub portion of the second core piece. The sleeve end face and the hub portion cooperate to define an annular keyway. The second core piece is rotatable between a first position where the key receiving notch of the hub portion aligns with a first outer notch of the outer sleeve, and a second position where the key receiving notch of the hub portion aligns with the second outer notch. The replaceable pin openings of the second core piece are aligned with the locking pin openings of the first core piece when the hub portion of the second core piece is in the first position, and the replaceable pin openings of the second core piece are not aligned with the locking pin openings of the first core piece when the hub is in the second position.

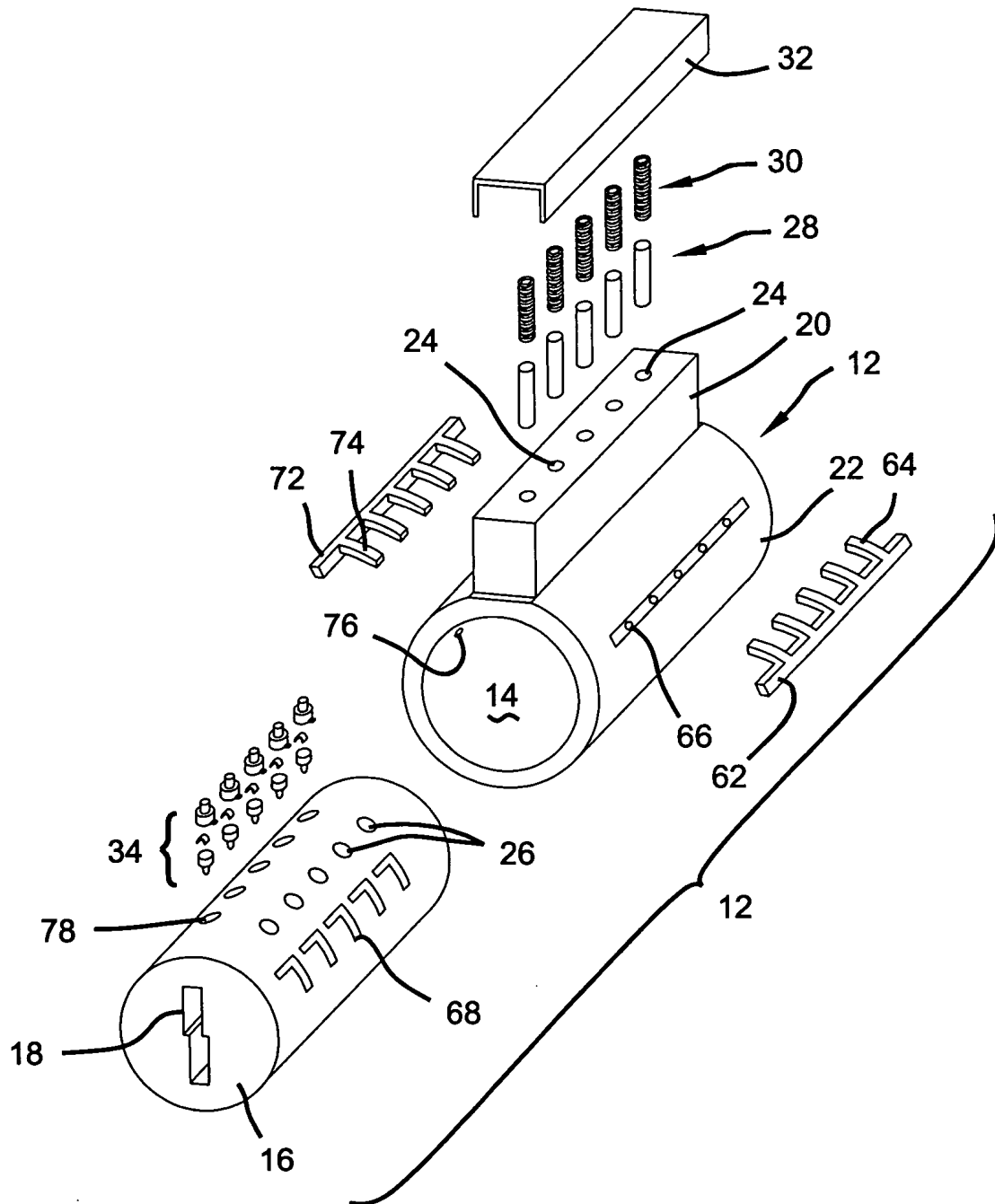
Family 34/100 - FAMPAT - ©Questel

Title

(WO200633864)

Rekeyable lock having 2-piece pin with rotatable member

Images



Abstract

(WO2006/033864)

A re-keyable **lock cylinder** assembly is provided which includes a **cylinder** housing **and** a **cylinder** plug rotatably supported in the **cylinder** housing. A tumbler pin assembly includes a pair of pins disposed **and** slidably supported within a pin bore formed in the **cylinder** plug **and** a coupling element interposed between the pair of pins **and** selectively rotatable between a coupled position wherein the pair of pins are fixed with respect to one another **and** a free position wherein the pair of pins are positionable with respect to one another for varying a height of the tumbler pin assembly.

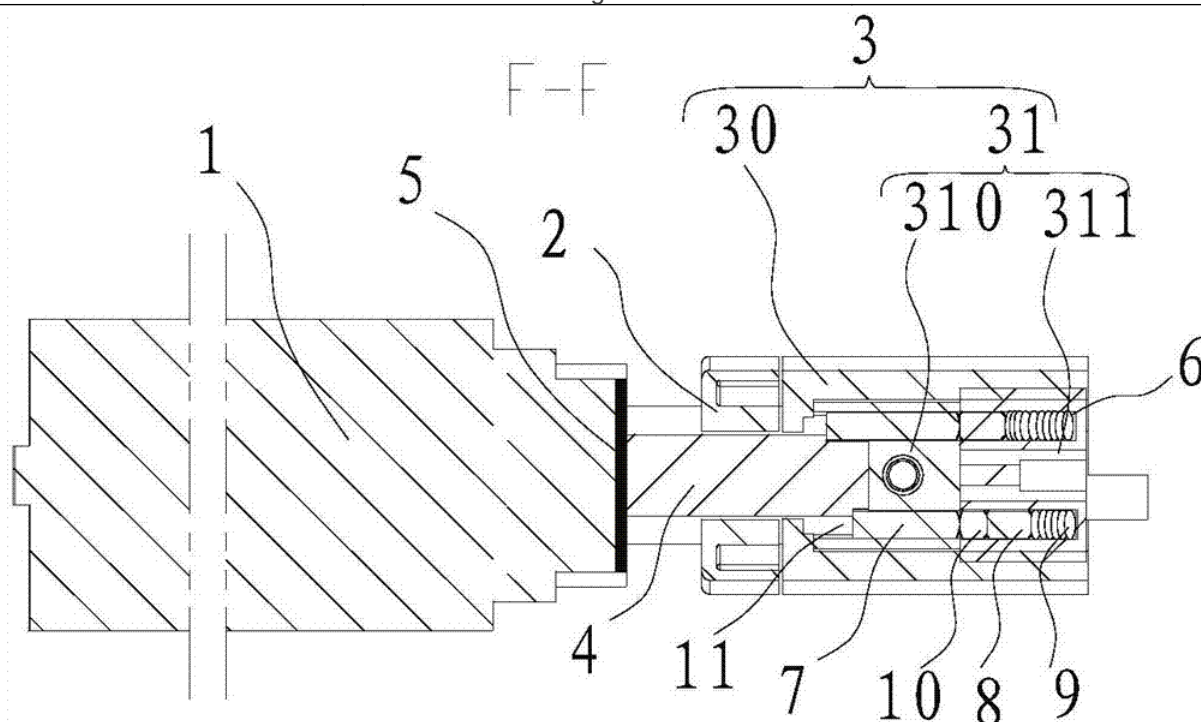
Family 35/100 - FAMPAT - ©Questel

Title

(CN104680631)

Dual-control, graded encoding and state self-detecting lock cylinder and lockset.

Images



Abstract

(CN104680631)

The invention relates to a dual-control, graded encoding and state self-detecting lock cylinder. The dual-control, graded encoding and state self-detecting lock cylinder comprises an intelligent key, a lock cylinder code chip and a lock cylinder, wherein an unlocking shaft of the intelligent key is provided with a key code chip; the lock cylinder is composed of a lock cylinder shell and an inner lock cylinder; the inner lock cylinder comprises a password rotary lock liner and a fixing lock liner; graded and grouped encoding marbles are further arranged between password marbles and bottom marbles of the password rotary lock liner and the fixing lock liner; the encoding marbles and RFID identity recognition codes of the code chips are combined so that the dual control and axial graded management are realized; electromagnet chips, magnetic chips and lock pins are arranged on the unlocking shaft and the password rotary lock liner; furthermore, light signal channels in the password rotary lock liner and the fixing lock liner of the lock cylinder can be used for effectively collecting relative positions of the password rotary lock liner and the fixing lock line, so that the working state of the lock cylinder is judged, and the opening and closing working states of the lock cylinder can be supplied and fed back in real time; and the invention further provides a lockset with the dual-control, graded encoding and state self-detecting lock cylinder.

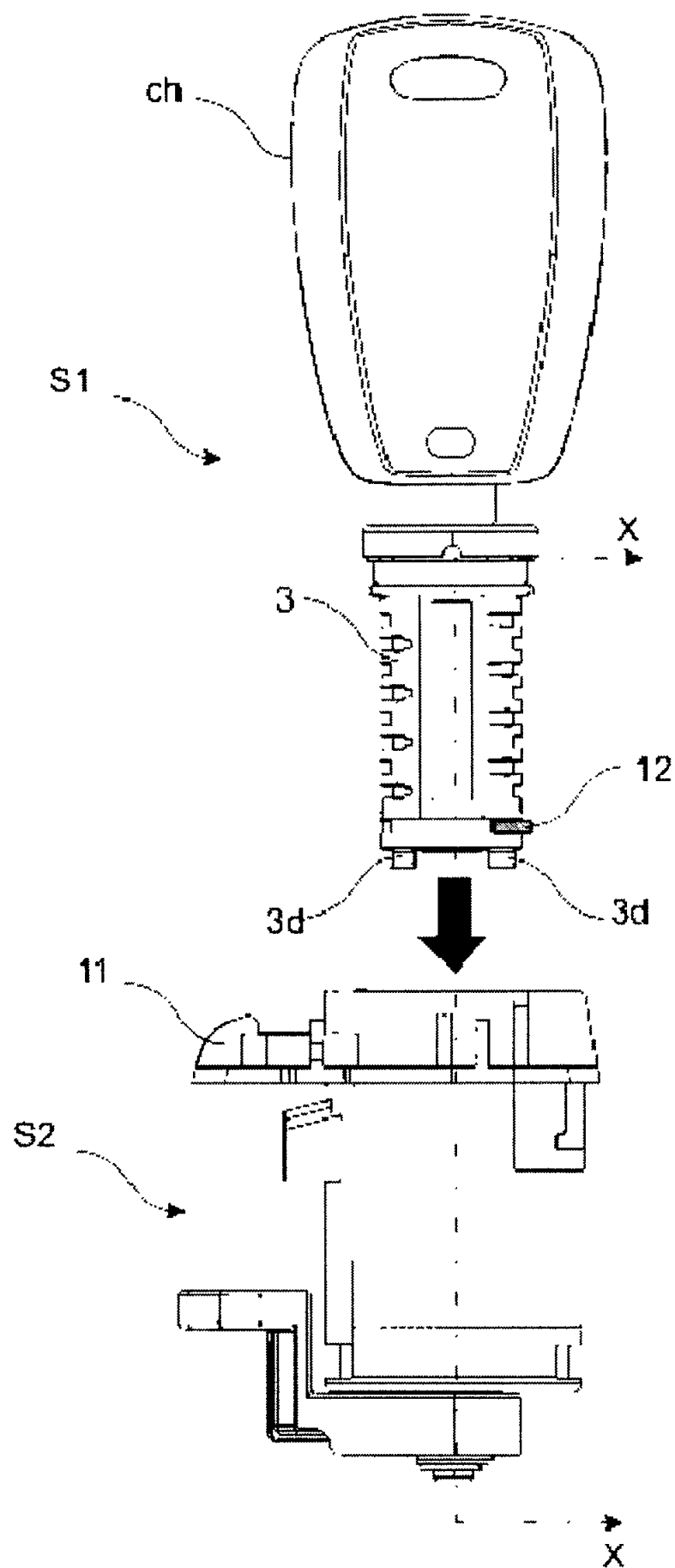
Family 36/100 - FAMPAT - ©Questel

Title

(EP2603652)

Interchangeable system of cylinder combination with embedded key in door lock (side/trunk) equipped with automobile vehicle free-turning anti-theft device

Images



Abstract

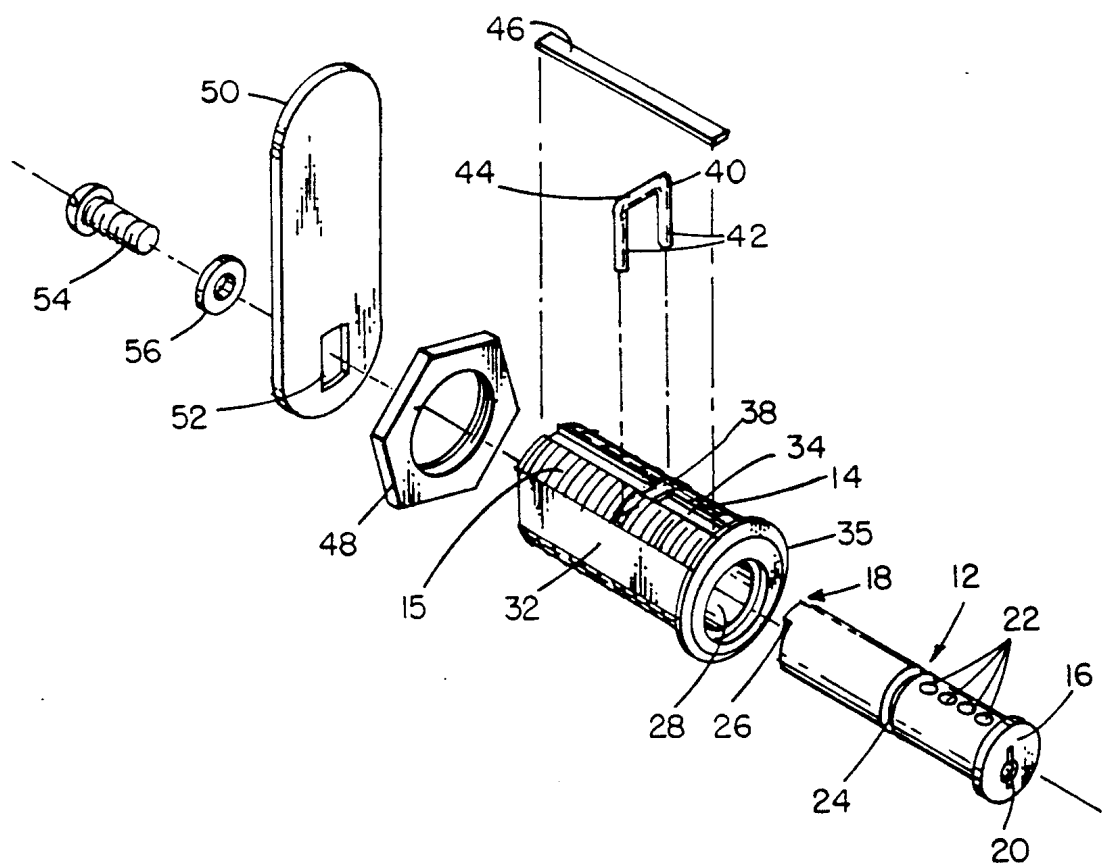
(EP2603652)

The present invention is directed to a free-turning anti-theft device assembled in a door **lock**, a characteristic translated into obtaining a first subcombination **cylinder** with key subcombination (S1) which is mounted on a second subcombination called free-turning anti-theft subcombination (S2), wherein the first can receive all kinds of specifications of **cylinder** (3) with key (ch), **and** accordingly the **cylinder** (3) is now included in its constructive concept, with a **lock** (12) positioned at the rear of the body (3a) of the **cylinder** (3), where in turn the convention rear part of this **cylinder** is separated **and** now forms the unprecedented **cylinder** terminal (4) which is mounted inside the free-turning anti-theft subcombination (S2), such that the **lock** (12) is of the fast **lock** kind, where its locking face (12d) is of the click kind, being raised by the action of a spring (13) also provided inside the **cylinder** (3), **and** compressed upon interference thereof with the inner wall of the intermediary shell (5), which acts in the definitive **lock**, when protruding **and** adjacent to its edge (5a).

Family 37/100 - FAMPAT - ©Questel

Title

(US5038589)

Rekeyable cam **lock****Images****Abstract**

(US5038589)

A **rekeyable** cam **lock** has a plug rotatably received in a **cylinder**. The plug has a keyway **and** pin tumblers **and** is provided with a circumferential groove rearward of the pin tumbler. The **cylinder** has a bore to receive the plug **and** a pair of transverse holes to receive a U-shaped clip in registration with the plug groove. The clip engages the groove, permitting rotation of the plug but preventing its removal from the **cylinder**. When the clip is removed from the holes, the plug is forwardly removable from the **cylinder** to facilitate rekeying of the **lock**.

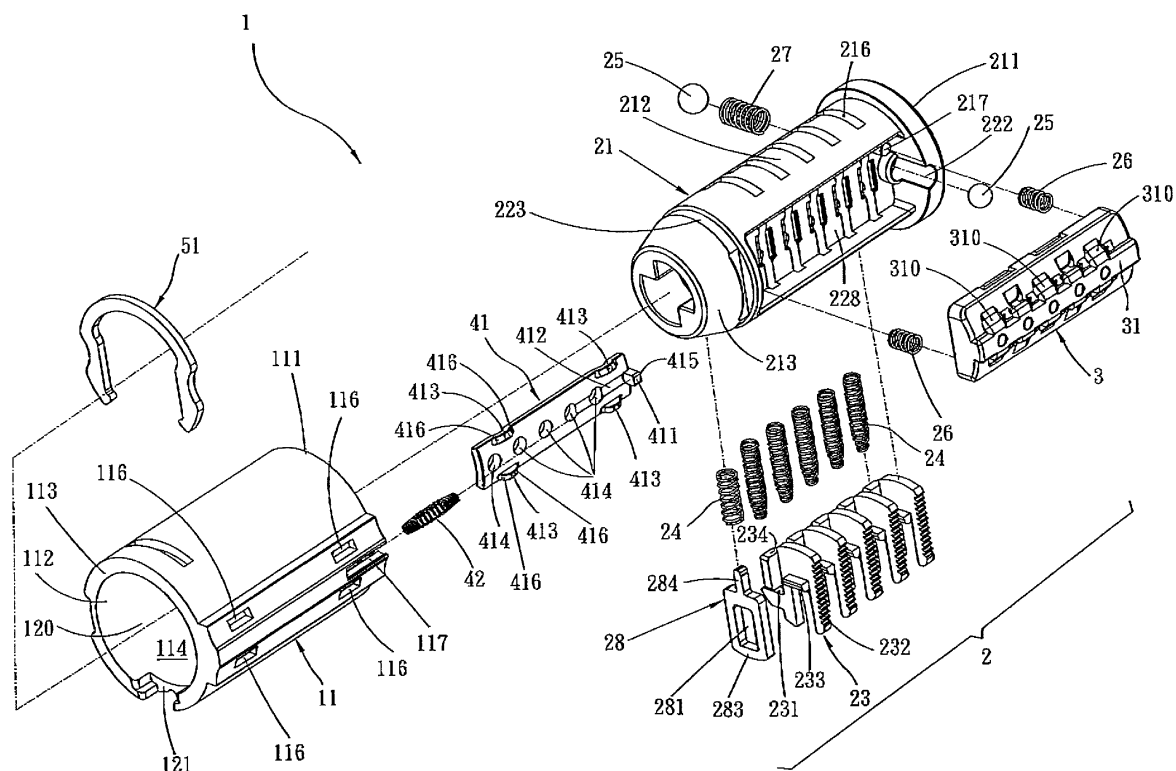
Family 38/100 - FAMPAT - ©Questel

Title

(US8316676)

Re-keyable cylinder lock

Images



Abstract

(US20100050717)

A re-keyable cylinder lock has a control member to permit or restrict transverse movement of a re-keying unit. The control member is movable axially between first and second positions and transversely to a third position from the second position. In the third position, the re-keying unit moves transversely and disengages from first tumbler pieces. A limit member is provided to prevent the control member from moving axially when no right key is inserted into a plug. A security arm is connected to the control member and is breakable so that destructive forces cannot reach the control member.

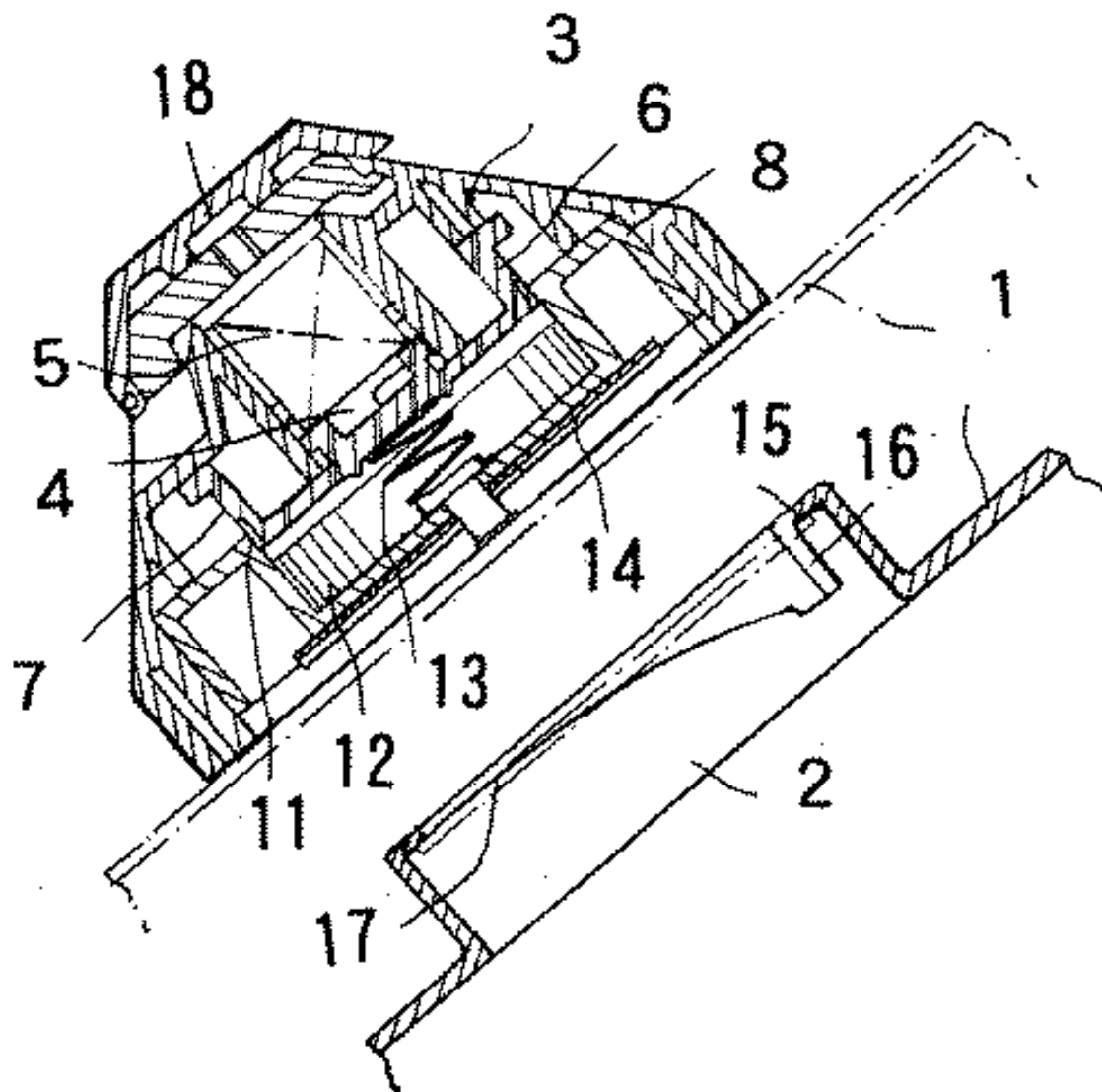
Family 39/100 - FAMPAT - ©Questel

Title

(JP3164161U)

Locking device for vehicle such as uric acid tank

Images



Abstract

(JP3164161)

PROBLEM TO BE SOLVED: Diesel car exteriors uric acid levels in the tank, liquid in the tank vehicle tricky thefts repulsively with uric acid provides a locking **mechanism** of the tank. **SOLUTION:** Liquid inlet 2 to, **and** rotatable cap body MTBR crowned 3 **and**, disposed on its center axis, **and** the main **cylinder** is provided with a coupling claws 5 **rekeyable and** the like, the cap is rotatable inside the body, the main hook 4 NXD Subsidiary capable of coupling claws, such as urea **and** liquid inlet engageable with the outer peripheral side of the stationary vane 14 locking connection body is provided with 6 softwafer manner. Furthermore, the liquid inlet edges of the uric acid as a cross-sectional view reverse 'U' annular-shaped protrusions, on its horizontal axis at an opposite position of the stationary vane tip end portion of the cut A can be ancillaries 16 is provided. Furthermore, the annular ribs in the horizontal direction from the lower end of the next cut such that the cut RGN a distance above the upper end of the fixed wing oblique is always in contact with a bight of the horizontal cutting 17 **and**, during the opening of the tablet **and** the connecting body is locked Subsidiary main claw engagement claw is opened, the cap body is only possible free pivotal movement. In addition, the tablet upon locking, the cap body when removing tank such that, the nail **and** nail main Reformatting Subsidiary engage, **and** the locking cap body connecting body connected to the fixed **and** rotatable together. **SELECTED DRAWING:** Fig. 3

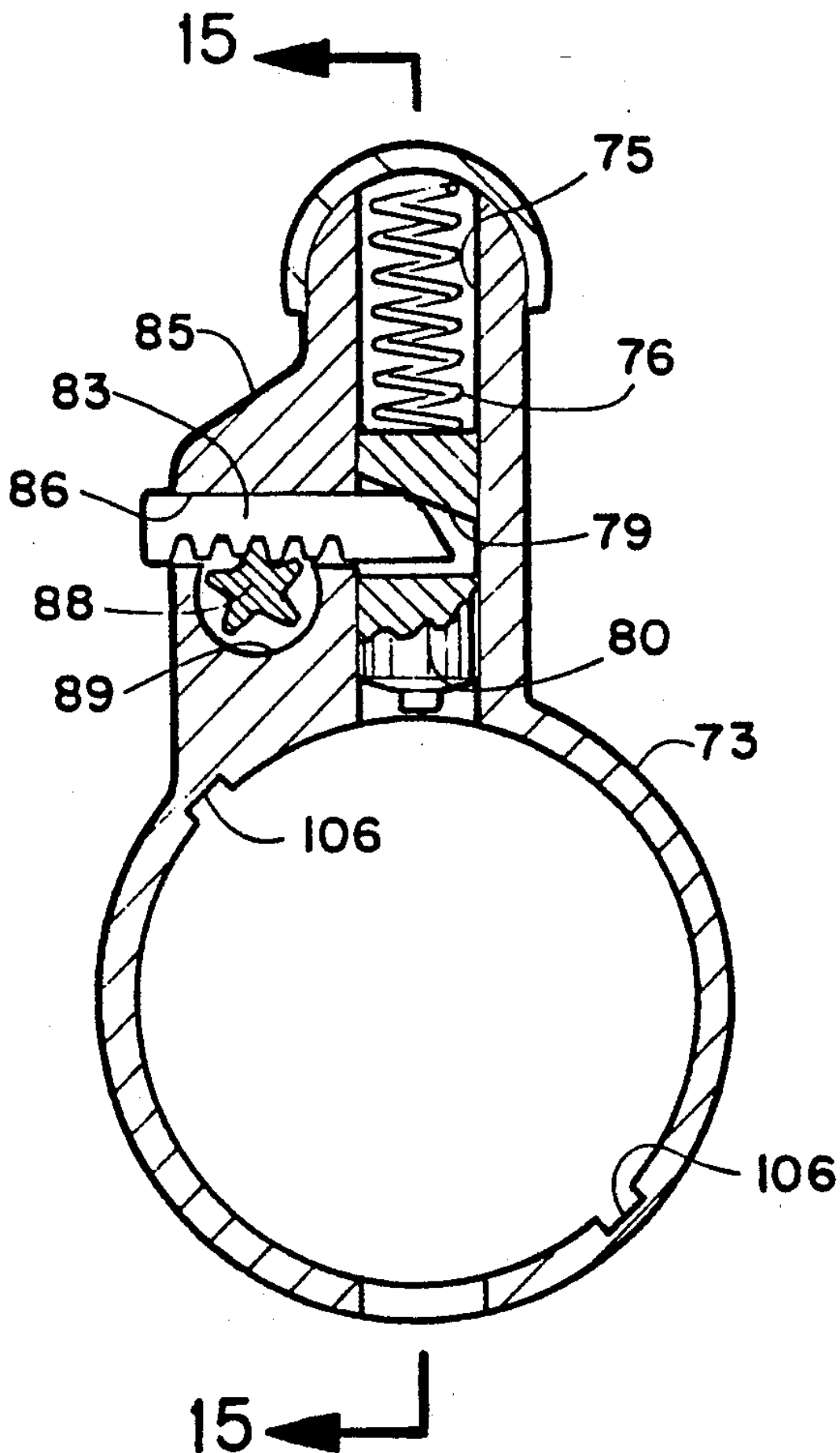
Family 40/100 - FAMPAT - ©Questel

Title

(EP-623184)

Universal **lock and** key

Images

**Abstract**

(EP0623184)

A universal **lock and** key assembly in which the **lock** (24) is **rekeyable and** the key is also changeable. The key (36) has a

shank portion (38) having a longitudinally extending tooth slot (40) in its top surface. A plurality of teeth (50) have their bottom ends inserted into the tooth slot (40) in any desired sequence to give a predetermined profile to the teeth of the key. The bottom pin cylinder (94) of the lock has mating bottom pins (100) for each of the respective teeth. They are then arranged in a coordinated sequence in the bottom pin cylinder (94) of the lock. The structure of the system allows an individual to change both the configuration of the key (36) and also the mating structure within the lock (24) so it will be operable.

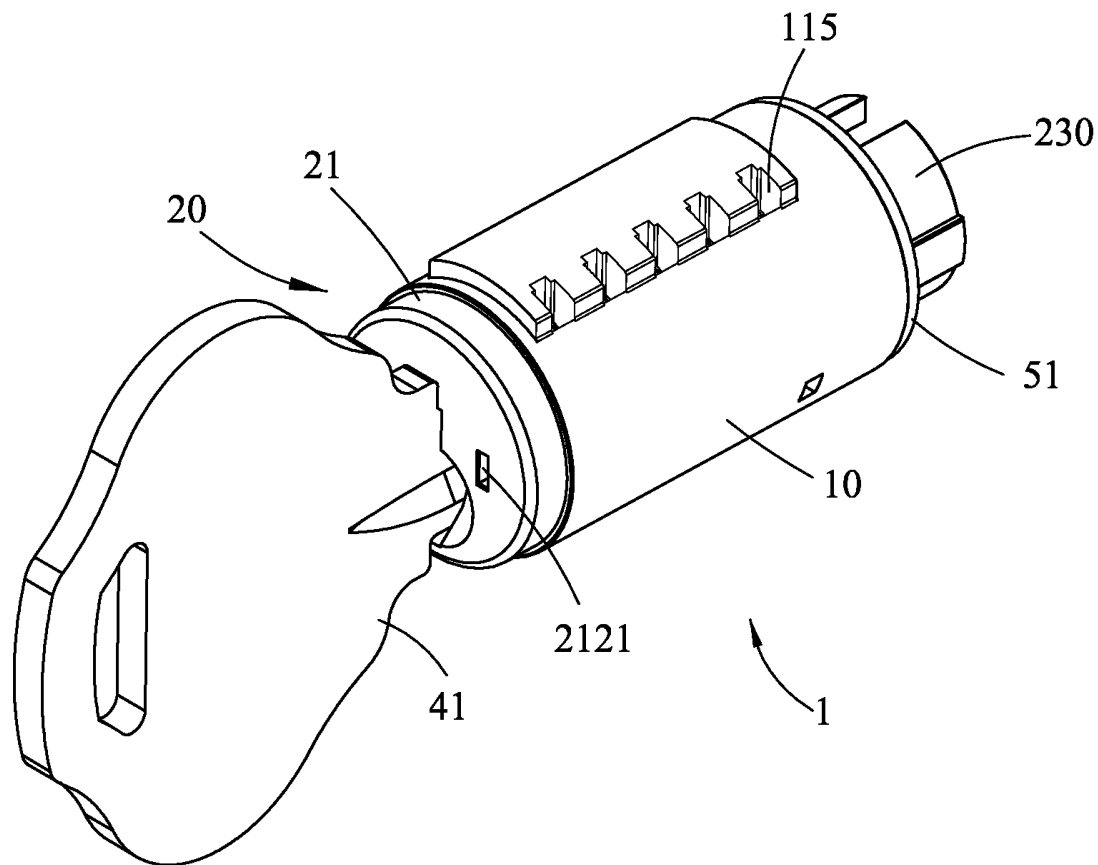
Family 41/100 - FAMPAT - ©Questel

Title

(US20140223976)

Re-keyable cylinder lock

Images



Abstract

(US20140223976)

A re-keyable cylinder lock includes a cylinder housing, a plug, a carrier, a toothed locking bar and a cotter pin. The plug is operable by a right key to rotate with respect to the housing about a longitudinal axis, and the carrier co-rotates with the plug. The locking bar engages the housing when the plug is in a home position where the cylinder lock is locked. The cotter pin is movable transversely, and has a bar-engaging toothed part engaging the locking bar when the carrier is in a normal position and disengaging from the toothed locking bar when the carrier is moved along the axis to a re-keying position, and a housing-engaging part engaging the housing when the plug is in the home position and when the right key is removed from the plug.

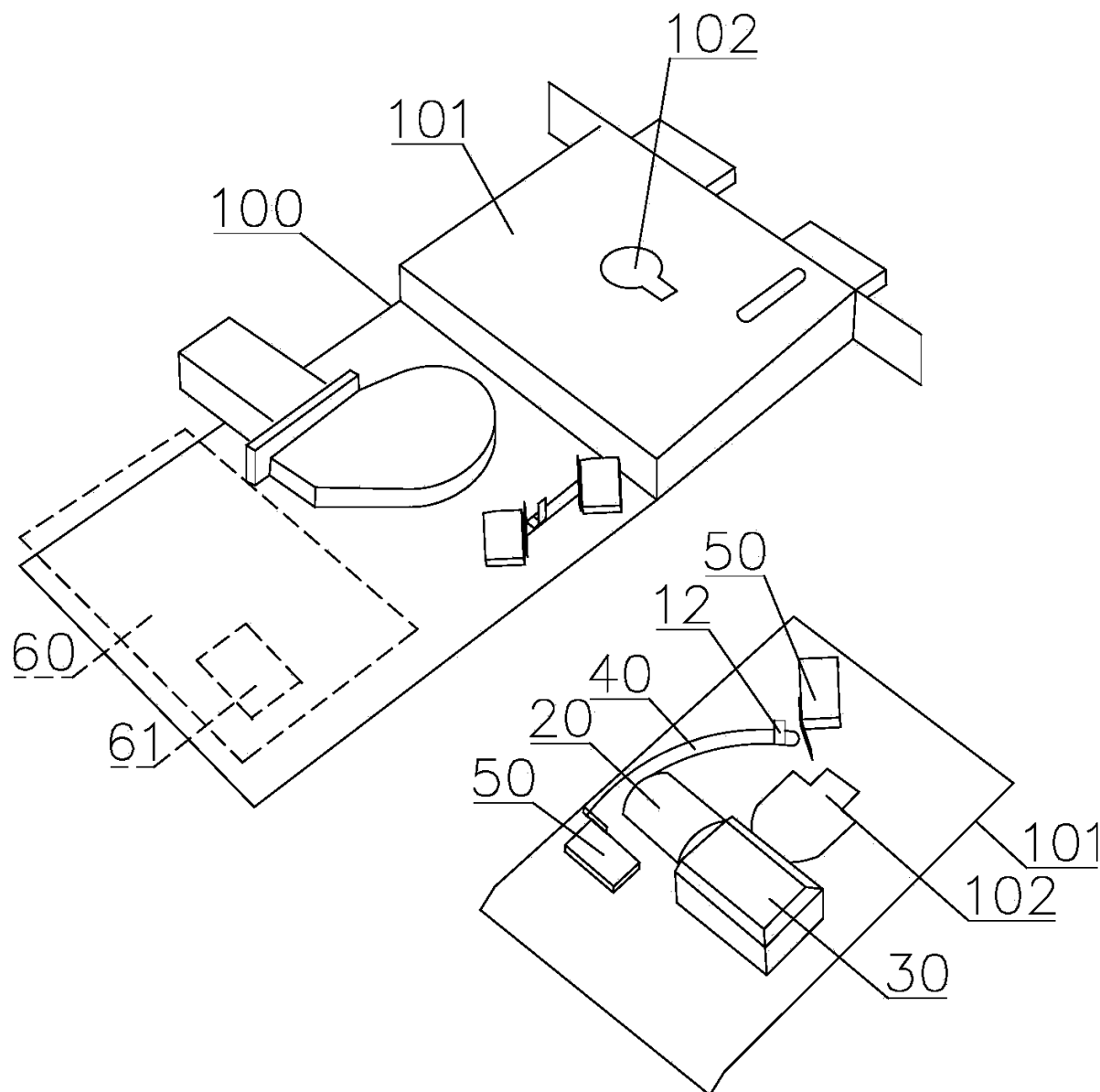
Family 42/100 - FAMPAT - ©Questel

Title

(CN203947882U)

Lock cylinder protection device

Images



Abstract

(CN203947882)

The utility model discloses a **lock cylinder** protection device which is fixed on a **lock**. The **lock** comprises a front plate which is provided with a **lock cylinder** hole. The **lock cylinder** protection device comprises a cover plate, a motor, a power conversion device, an arc sliding groove, two travel switches and a control circuit. The cover plate is connected to the front plate in a pivoted mode through a rotation shaft and provided with a sliding block. The arc sliding groove is formed in the front plate and matched with the sliding block with the rotation shaft as the circle center. The two travel switches are fixed at the two ends of the arc sliding groove respectively, the two travel switches are in signal connection with the control circuit which controls the motor, and the control circuit comprises a remote control receiving device. The **lock cylinder** protection device has the advantage of being capable of effectively lowering the probability that a lawbreaker technically opens a **lock** through a **lock cylinder** or opens the **lock** by breaking the **lock cylinder**.

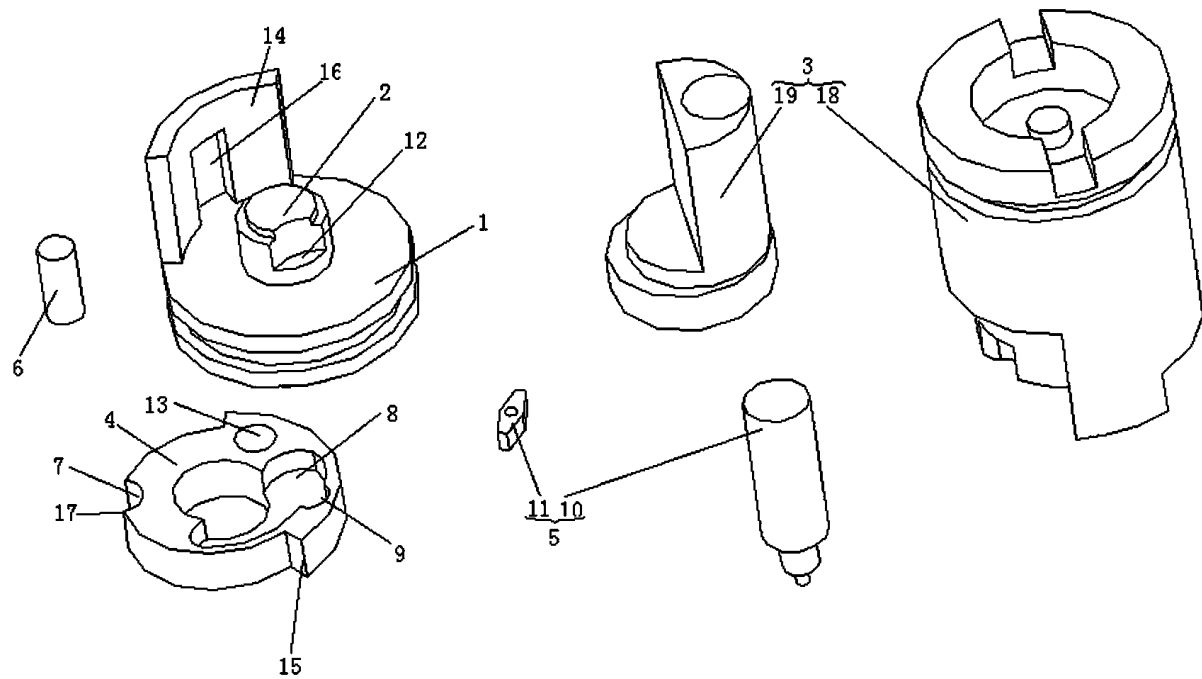
Family 43/100 - FAMPAT - ©Questel

Title

(CN204199871U)

Intelligent passive **lock cylinder**

Images



Abstract

(CN204199871)

The utility model provides an intelligent passive **lock cylinder**. The intelligent passive **lock cylinder** comprises a support, a **lock cylinder** rotating part, a crankset, an electric locking **mechanism** and a locking pin, wherein the support is provided with a rotating shaft; the **lock cylinder** rotating part is rotationally arranged on the support around the center axis of the rotating shaft; the crankset is arranged coaxial with the support and rotationally arranged on the rotating shaft in a sleeving mode; the electric locking **mechanism** is arranged on the **lock cylinder** rotating part and provided with a locking position and an unlocking position, the locking position makes the crankset rotate along with the **lock cylinder** rotating part together, and the unlocking position makes the crankset rotate relative to the **lock cylinder** rotating part; the locking pin is elastically connected to the periphery of the crankset in an abutting-against mode, a locking groove matched with the locking pin is formed in the periphery of the crankset, and the locking pin is provided with an unlocking position located inside the locking groove and a locking position located outside the locking groove. According to the intelligent passive **lock cylinder**, the problem that in the prior art, as power consumption of a key is large, a user needs to replace a battery often can be solved.

Family 44/100 - FAMPAT - ©Questel

Title

(US5737950)

Ambidextrous vertical inverted handed cam **lock**

Images

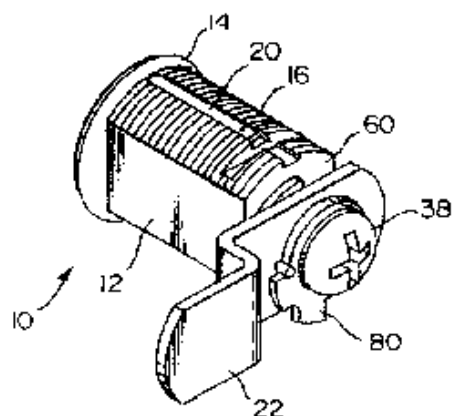


FIG. 1

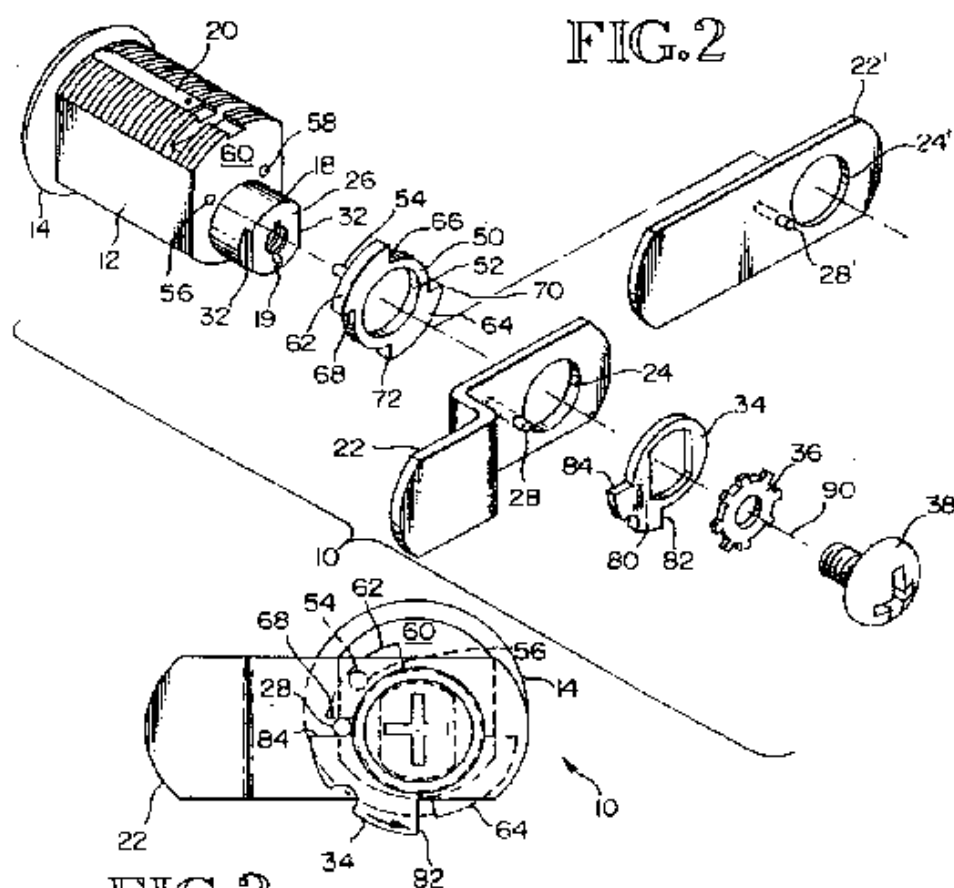


FIG. 3

Abstract

(US5737950)

An ambidextrous vertical inverted handed cam **lock** for cabinet doors **and** drawers has a conventional pin tumbler **cylinder and** plug assembly. An arcuately movable bolt is journaled for rotation about a rearwardly extending portion of the plug. A conventional lazy cam drives the bolt. An arcuately repositionable bolt rotation limiter provides either left hand or right hand throws for the bolt while simultaneously allowing for inverted vertical use.

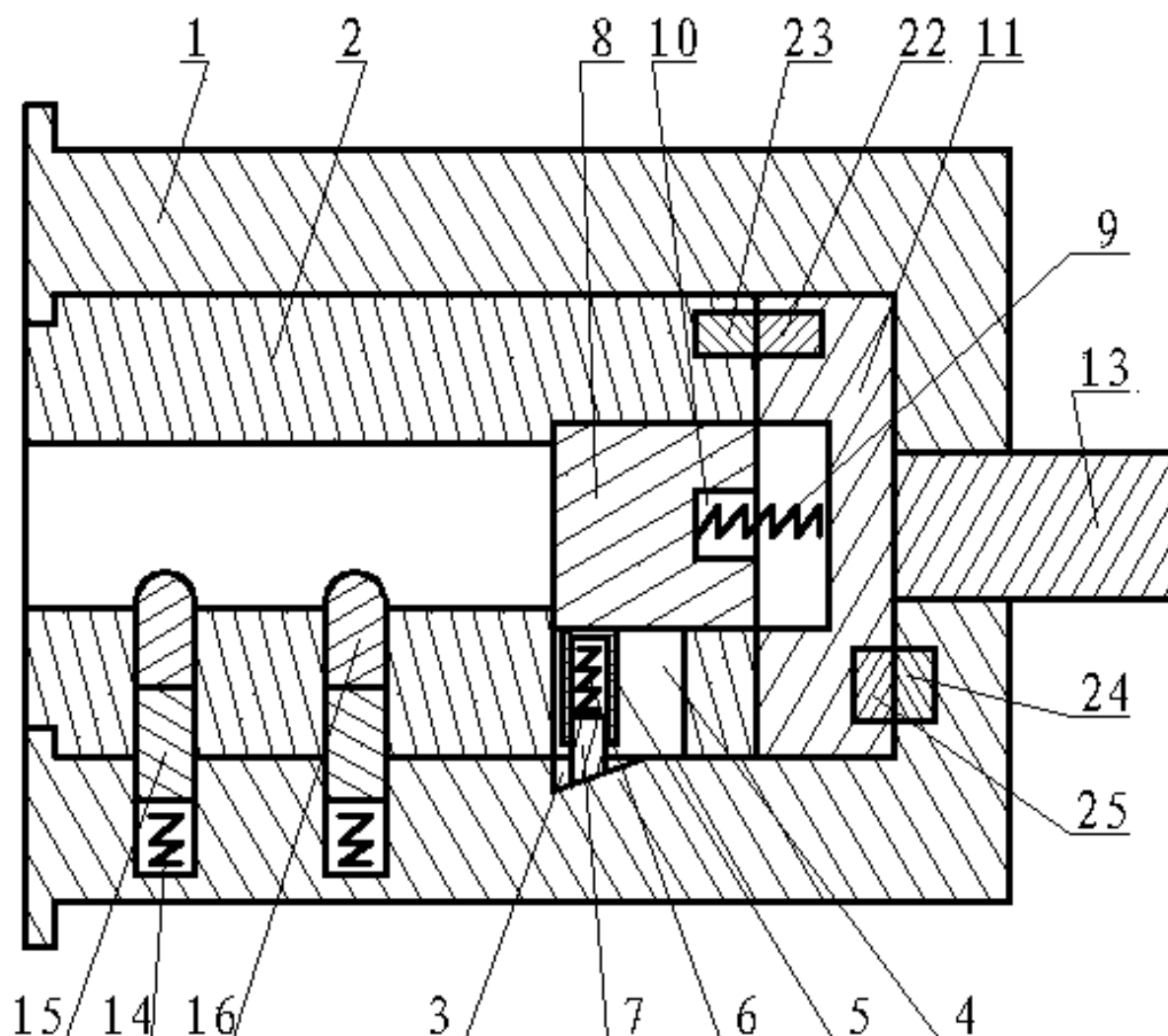
Family 45/100 - FAMPAT - ©Questel

Title

(CN104481246)

Electromechanical hybrid anti-theft locking alarm **lock**

Images



Abstract

(CN104481246)

The invention discloses an electromechanical hybrid anti-theft locking alarm **lock**. A rear **lock cylinder** of the electromechanical hybrid anti-theft locking alarm **lock** is completely disconnect from a connecting body **and** a front **lock cylinder**, the connecting body is hidden in an invisible hole, a locking column locks the front **lock cylinder**, the front **lock cylinder and** the rear **lock cylinder** asynchronously rotate to give an alarm, an electronic remote control device is installed in a power supply circuit of an electromagnet. The electromechanical hybrid anti-theft locking alarm **lock** integrates electromechanical interlocking invisibility, mechanical interlocking, invisibility, invisible connection between the front **lock cylinder and** the rear **lock cylinder and** asynchronous alarming **and** enables a theft to be incapable of opening an interlocking device **and** turning the rear **lock cylinder**. Even if an oblique-locking device **and** connection locking are damaged by adopting a savage means, the theft can only turn the front **lock cylinder, and** the rear **lock cylinder** cannot be turned. Even if the theft uses an electric portable drill to remove the front **lock cylinder and** the rear **lock cylinder and** uses a clamp **and** other like tools to turn a connecting tongue, a rotatable contact is not in contact with the fixed contact so that the power supply circuit of the electromagnet cannot be connected, **and** in addition, the electronic remote control device enables the power supply circuit of the electromagnet to be interrupted so that a safety **lock** crosspiece cannot be opened **and** a complete **and** thorough anti-theft role can be played.

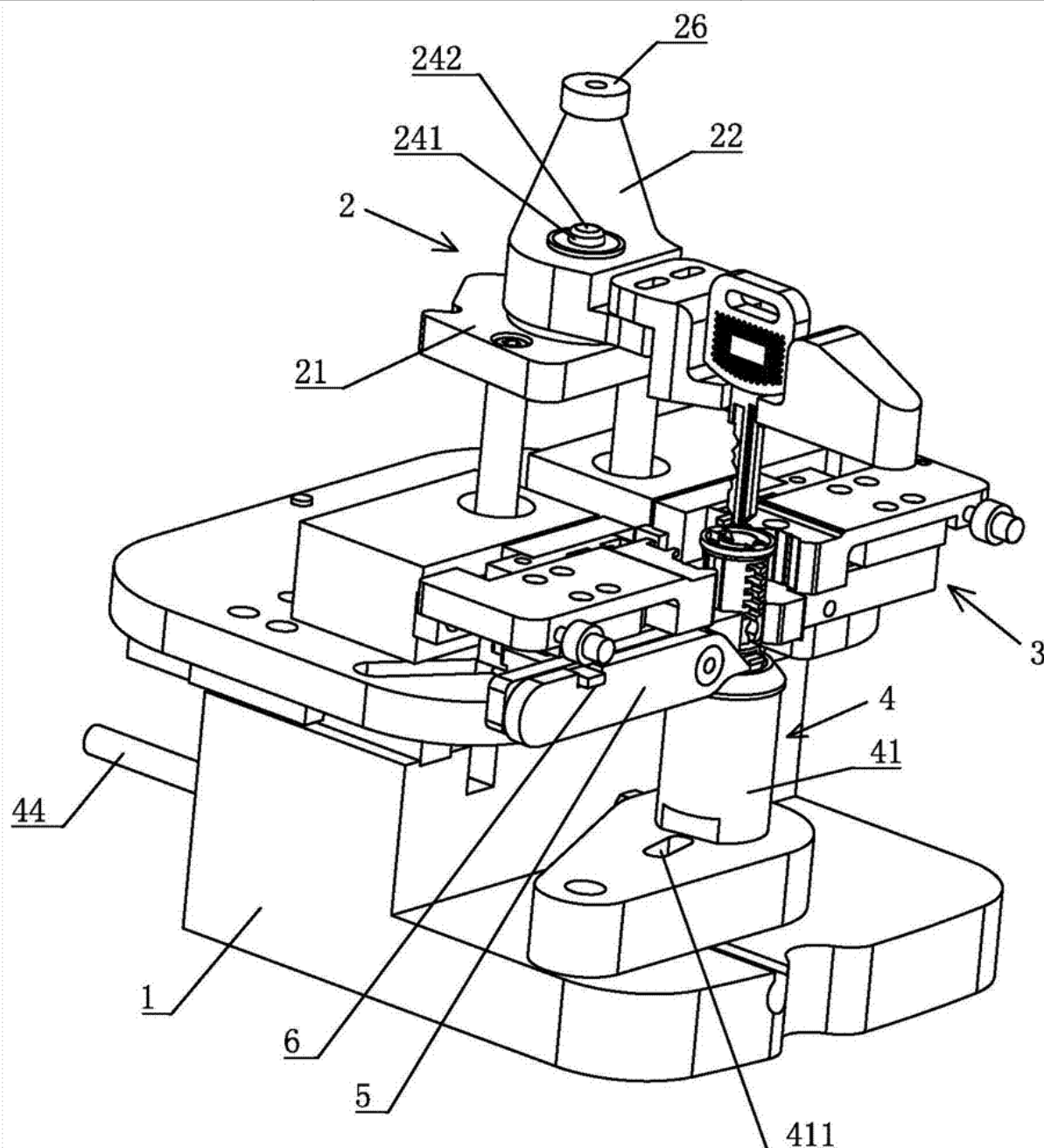
Family 46/100 - FAMPAT - ©Questel

Title

(CN105171406)

Multifunctional clamp used for assembling **lock cylinder**

Images



Abstract

(CN105171406)

The invention discloses a multifunctional clamp used for assembling a **lock cylinder**. The multifunctional clamp used for assembling the **lock cylinder** comprises a supporting frame. A key fixing device, a **lock cylinder** fixing device and a **lock** case fixing device are sequentially installed on the supporting frame from top to bottom. The key fixing device comprises a lifting plate and a rotary rod, wherein the lifting plate is arranged on the supporting frame in a vertical moving mode, and the rotary rod is arranged on the lifting plate in a left-right rotation mode and provided with a key fixing **mechanism** used for fixing a key. The key is switched from the state of a knurling identification procedure into the state of being inserted into the **lock cylinder** through rotation of the rotary rod, the key fixing **mechanism** is driven to descend through descending of the lifting plate, and the key is inserted into the **lock cylinder**. After the key is released, through the rotation of the rotary rod and the ascending of the lifting plate, the key fixing **mechanism** gets back into the state of the knurling identification procedure for the next time of assembly. The multifunctional clamp used for assembling the **lock cylinder** is simple in structure, improves production efficiency and relieves labor intensity for workers.

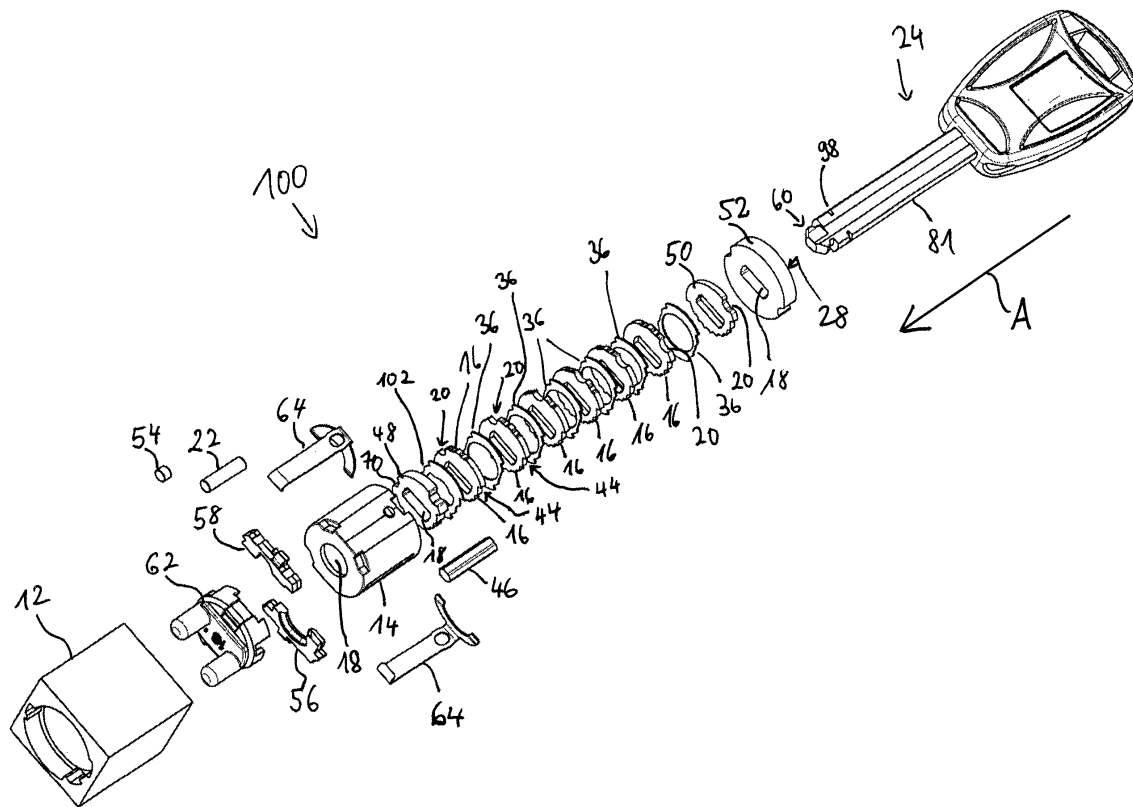
Family 47/100 - FAMPAT - ©Questel

Title

(EP3045620)

Locking **cylinder**

Images



Abstract

(EP3045620)

A **lock cylinder** comprises a **cylinder** housing, a disk housing rotatably supported about a **cylinder** axis in the **cylinder** housing and a plurality of rotatably supported disk tumblers arranged along the **cylinder** axis in the disk housing, wherein each disk tumbler has a reception opening for a key, a blocking cut-out at the outer periphery for an at least partial reception of a blocking pin aligned in parallel with the **cylinder** axis and a fixing cut-out provided offset from the blocking cut-out at the outer periphery for an at least partial reception of a core pin aligned in parallel with the **cylinder** axis. The disk tumblers are rotatable from a starting position with a removed key into an end sorting position by a rotation of the introduced key in the latching direction, in which end sorting position the blocking cut-outs of all the disk tumblers are oriented in alignment with one another, viewed in the direction of the **cylinder** axis. The fixing cut-outs of all the disk tumblers are oriented in alignment with one another in the end sorting position, viewed in the direction of the **cylinder** axis. The **lock cylinder** is adapted such that, on a further rotation of the disk tumblers out of the end sorting position in the unlatching direction, the core pin first engages into the fixing cut-outs and the blocking pin only then engages into the blocking cut-outs.

(From US10006224 B2)

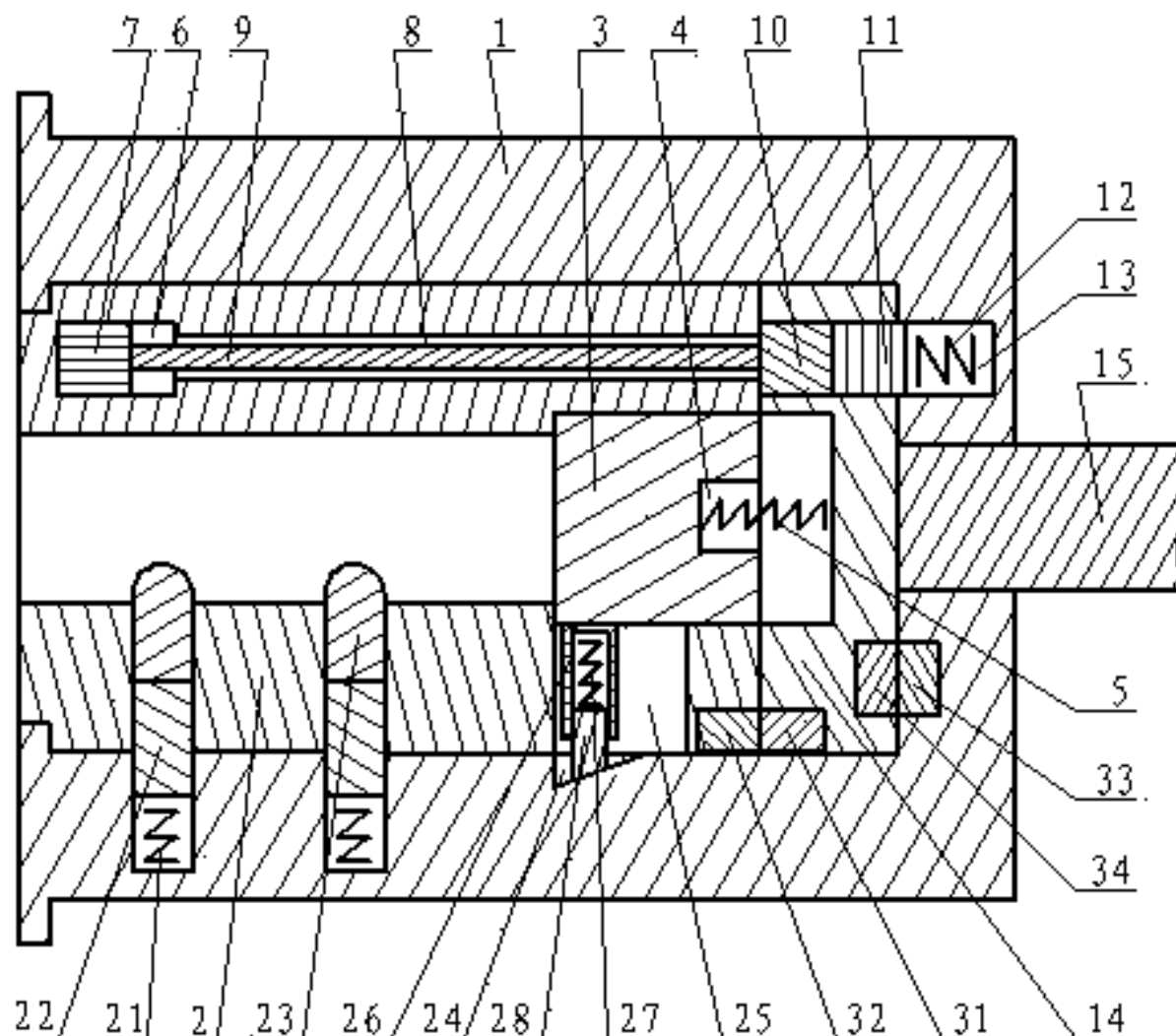
Family 48/100 - FAMPAT - ©Questel

Title

(CN104631937)

Electromechanical combined asynchronous interlocking magnetic pushing anti-theft **lock**

Images



Abstract

(CN104631937)

The invention discloses an electromechanical combined asynchronous interlocking magnetic pushing anti-theft **lock**. A rear **lock cylinder** is completely disconnected with a connector **and** a front **lock cylinder**, the connector is hidden in an invisible hole, a locking pillar **and** a **lock** pillar dead **lock** the front **lock cylinder**, a magnetic pushing **lock and** an attracting **lock** are hidden in a **lock** body **and** the **lock cylinder and** dead **lock** the rear **lock cylinder**, the front **lock cylinder and** the rear **lock cylinder** asynchronously rotate to give an alarm, an electronic remote control device is installed in a power supply circuit of an electromagnet **and** interrupts the power supply circuit of the electromagnet, furthermore a safety **lock** rail can not be opened, **and** a complete **and** thorough theft prevention function is achieved. Electromechanical interlocking invisibility, mechanical interlocking, invisibility, connecting invisibility of the front **lock cylinder and** the rear **lock cylinder and** asynchronous alarming are integrated, a thief can not open an interlocking device or rotate the rear **lock cylinder, and** even if a barbarous method is used for damaging a side **lock** device **and** a connecting **lock**, only the front **lock cylinder** can be rotated, **and** the rear **lock cylinder** is not rotated.

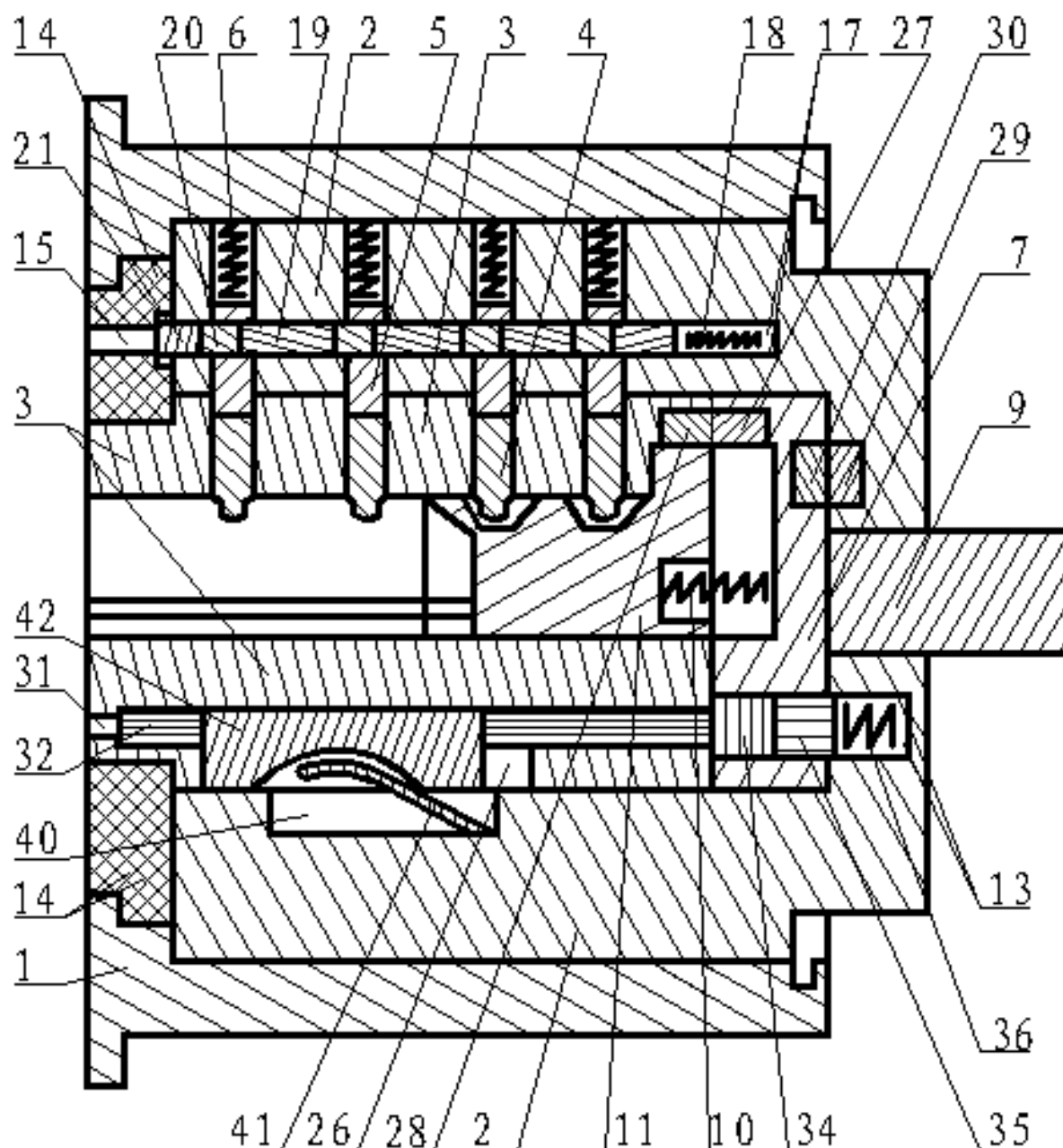
Family 49/100 - FAMPAT - ©Questel

Title

(CN104196362)

Electrical **and** mechanical mixed alarm multi-interlocking anti-theft **lock**

Images

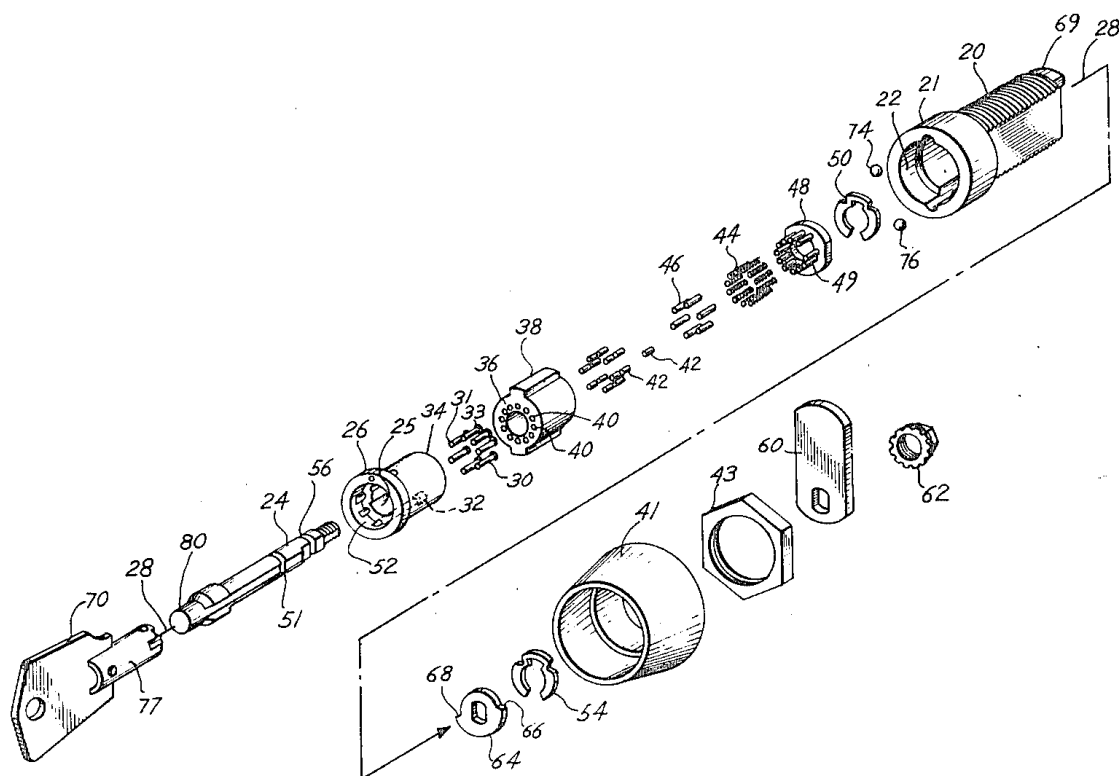


Abstract

(CN104196362)

The invention discloses an electrical and mechanical mixed alarm multi-interlocking anti-theft lock. The electrical and mechanical mixed alarm multi-interlocking anti-theft lock is characterized in that an invisible key or an invisible connector is disconnected from a central key and a rear lock cylinder, the rear lock cylinder is locked by an asynchronous lock head, an expansion piece locks a front lock cylinder and is opened by a pushing pillar, the front lock cylinder and the rear lock cylinder are completely disconnected and asynchronously rotate to give an alarm, an ejection pin and a lock pin transversely lock a locking pillar, and an electronic remote control device is invisibly installed in a power supply circuit of an electromagnet; electrical and mechanical interlocking invisibility, mechanical interlocking invisibility, invisibility of connection between the front lock cylinder and the rear lock cylinder and asynchronous alarming are integrated, and therefore a thief can not open the interlocking devices or rotate the rear lock cylinder. As a rotary contact does not make contact with a fixed contact, the power supply circuit of the electromagnet can still not be connected even if the thief removes the front lock cylinder and the rear lock cylinder through an electric hand drill in a drilling mode and rotates a connecting tongue through a tool like a clamp; besides, the electronic remote control device breaks off the power supply circuit of the electromagnet, a safety lock transverse part can not be opened, and the thorough anti-theft effect is achieved.

(US4233828)

Changeable combination, axial pin tumbler **lock** with single interface**Images****Abstract**

(US4233828)

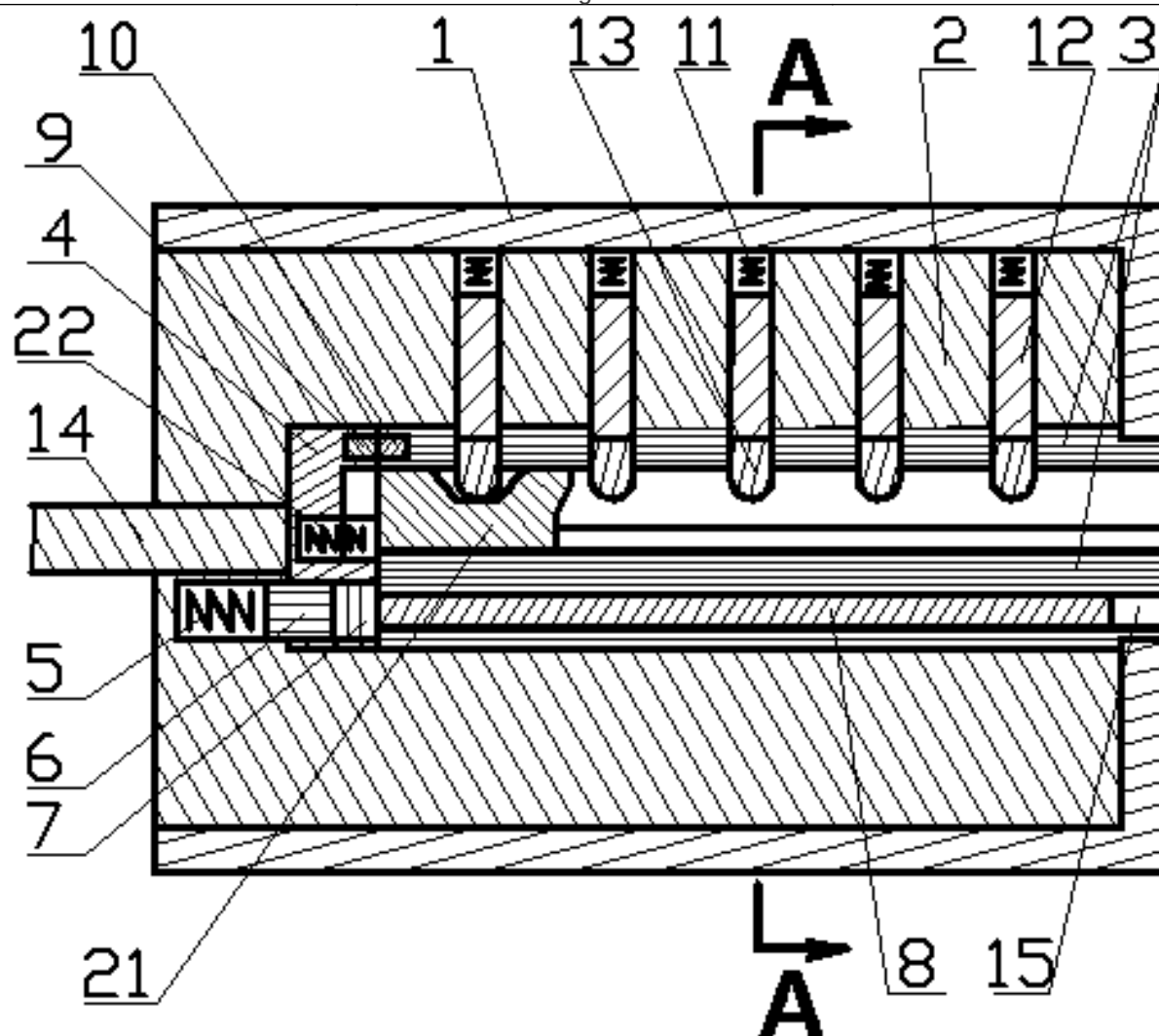
A changeable combination, axial pin tumbler **lock** is operable by means of a cylindrical service key. Set keys are used to change the tumbler combination **and** thereby provide for operation of the **lock** by a different service key. The **lock** includes a fixed cylindrical barrel with twelve tumbler passages in opposed relation with a rotatable plug **and** barrel having seven tumbler passages. One half of the passages of the fixed barrel store reserve tumblers. A single shear interface is defined by the plug barrel **and** fixed barrel. Transfer of reserve tumblers from the fixed barrel passages to the plug barrel passages by means of set keys effects a combination change.

Family 51/100 - FAMPAT - ©Questel

Title

(CN104033041)

Interlocking asynchronous alarming key-hidden anti-theft **lock****Images**



Abstract

(CN104033041)

The invention discloses an interlocking asynchronous alarming key-hidden anti-theft **lock**. An asynchronous **lock** head locks a rear **lock cylinder**, a front **lock cylinder** and the rear **lock cylinder** are completely disconnected, a hidden key shields part of a locking-holding hole, a thief can not open an interlocking device or rotate the rear **lock cylinder**, can not open a projectile partially shielded by the hidden key inside a hidden hole through an unlocking tool, and can not rotate the front **lock cylinder** and the rear **lock cylinder**. Even though the thief damages an ejection **cylinder** brutally through a flat tool and forcedly rotates the front **lock cylinder**, the rear **lock cylinder** is not connected with the front **lock cylinder** due to the locked and hidden asynchronous **lock** head and does not rotate along the front **lock cylinder**, only the front **lock cylinder** can be rotated, the hidden rear **lock cylinder** can not rotated, and an alarm is given due to the asynchronous rotation of the front **lock cylinder** and the rear **lock cylinder**. The interlocking asynchronous alarming key-hidden anti-theft **lock** integrates the functions of being anti-theft, being hidden, achieving asynchronous interlocking and giving an alarm.

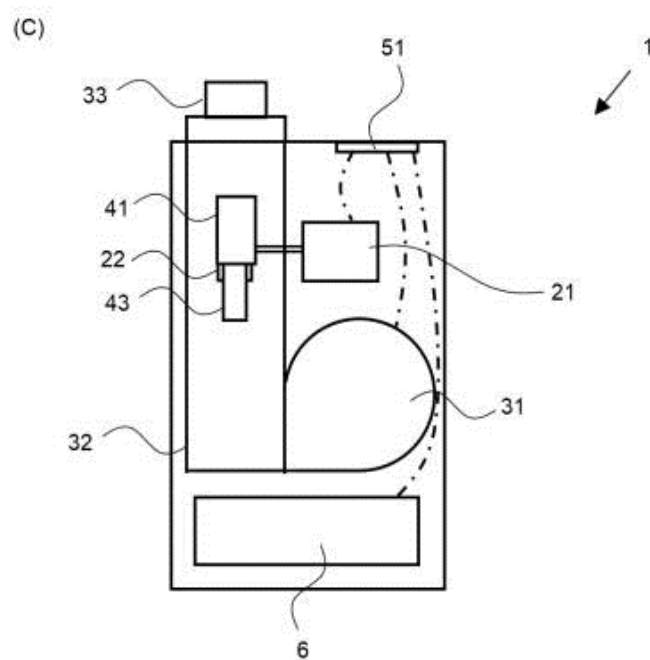
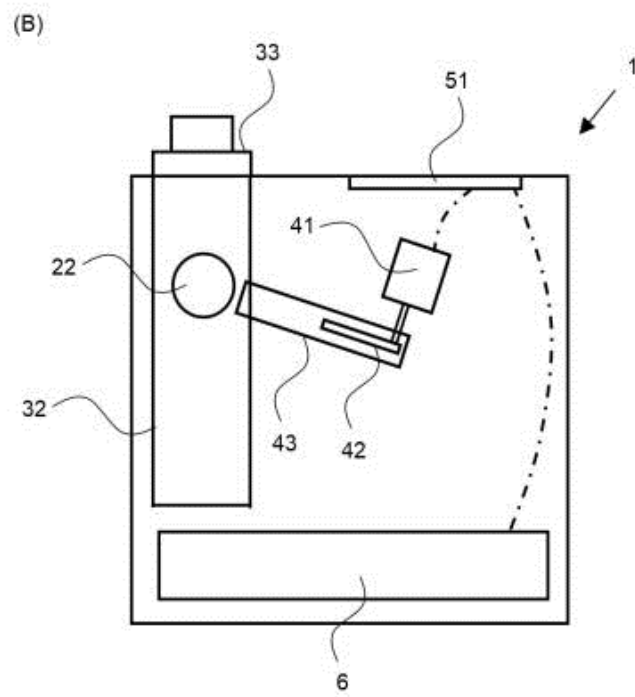
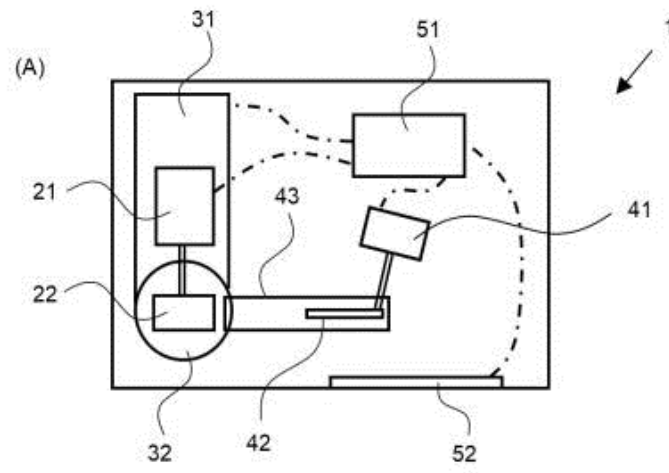
Family 52/100 - FAMPAT - ©Questel

Title

(JP3194790U)

Powder scattering device

Images



Abstract

(JP3194790)

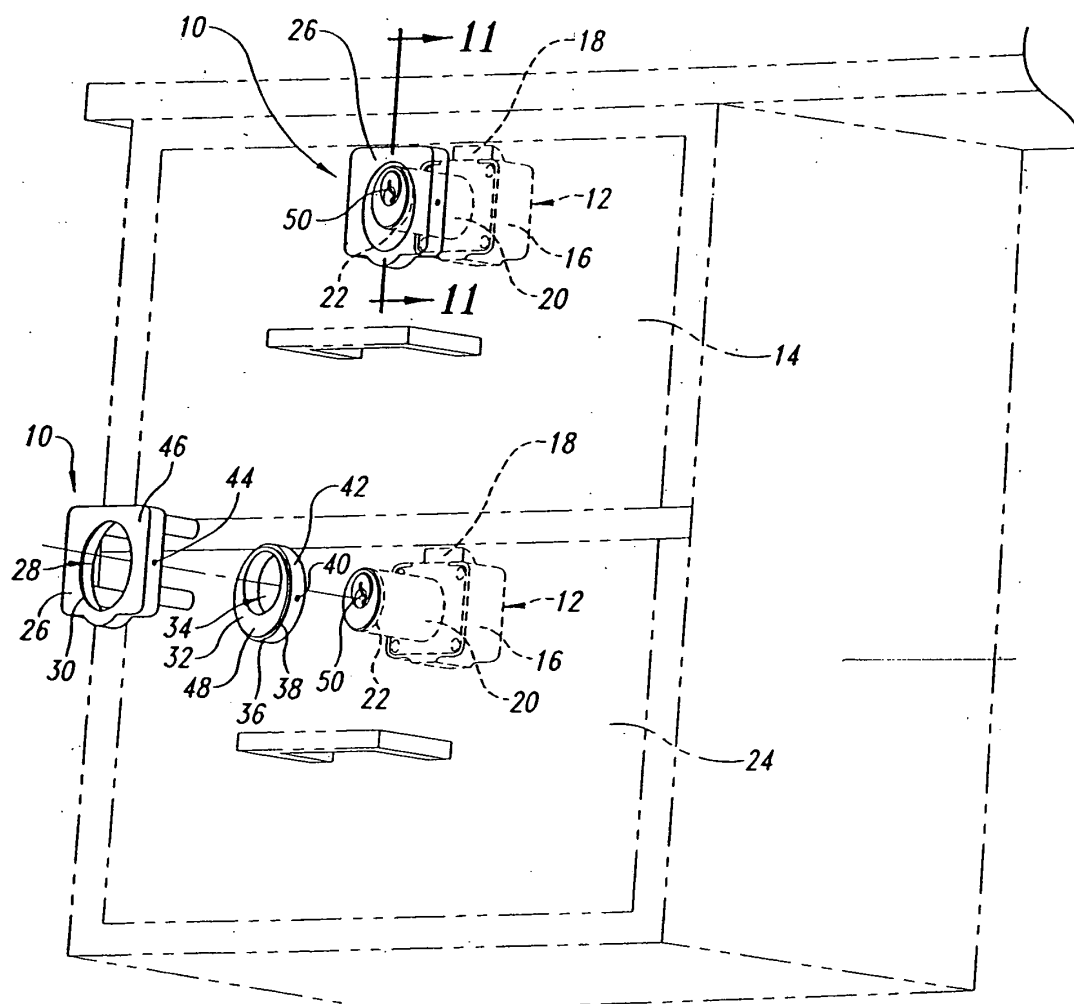
PROBLEM TO BE SOLVED: Powder scattering of powder by weight can be controlled to provide an apparatus for scattering. SOLUTION: Rotation motor 21 rotated by the rotary brush 22 is provided, the rotation brush 22 cutting instrument is made. The rotation brush 22 is, for example a brass wire brush. The rotary motor 21 and rotary brush 22 by means of cutting devices are formed. An exhaust blower 31 supplied from the tube 32 is, the rotation brush 22 provided cover. Tube 32 exhaust stack is 33 connected to, the rotation brush 22 powder being cut by, the wind exhaust stack (air flow) 33 from being scattered. An exhaust blower 31, tube 32 and exhaust stack 33 by exhausting device is formed. The rotation brush 22 extruding the powder toward the cylinder (slot body) rekeyable 43 is provided. Powder tablet cylinder 43 inserted into, the pusher rod 42 applicator. The pusher 42 is, the linear motor 41 driven by. Linear motor 41, the pusher 42 and cylinder 43 formed by an extrusion apparatus. SELECTED DRAWING: Fig. 2

Family 53/100 - FAMPAT - ©Questel

Title

(US20070227210)

Security cover plate with eccentric mounting aperture

Images**Abstract**

(US20070227210)

A cover plate assembly 10 is provided for a cabinet door or drawer lock 12. A cover plate 26 defines a first circular aperture 28 and a rotatably circular cover plate insert 32 defines an eccentrically positioned second circular aperture 34. The second circular aperture 34 defines an inner diameter 33 sized to selectively receive the cylinder and plug assembly housing 20,

and the insert 32 has an outer diameter 39 sized to fit within and selectively rotate with respect to the first circular aperture 28. During installation, the outer diameter 39 of the insert 32 is positioned within the first circular aperture 28, and the insert 32 is selectively rotated to a position that enables the cover plate assembly 10 to register with a bolt housing 16 and the second circular aperture 34 to register with a cylinder and plug assembly housing 20.

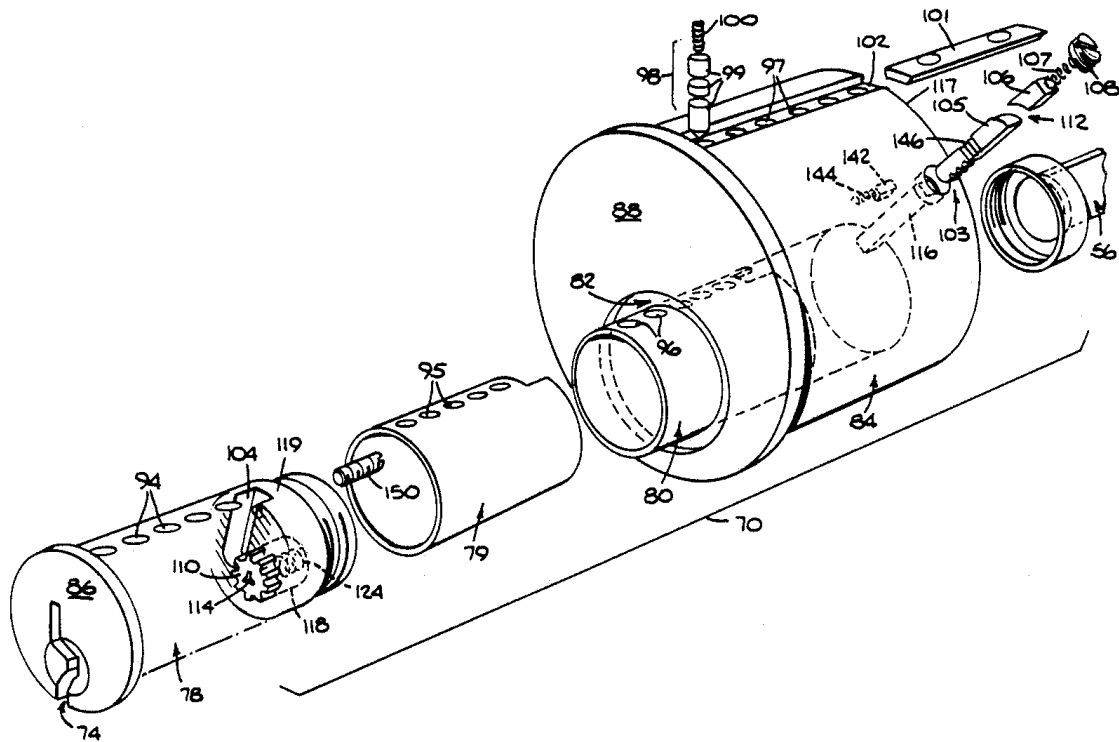
Family 54/100 - FAMPAT - ©Questel

Title

(US4850210)

Lock adjustable to operate with different keys

Images



Abstract

(US4850210)

A lock which is rekeyable or programmable to operate with a different key from the exterior thereof without disassembling it or removing it from a lock assembly in which it is assembled is disclosed. The lock is rekeyed by a change key through the keyway so that the lock appears from the exterior thereof to be a conventional lock. The change key which can not operate the lock adjusts a movable shear line formed by what is in effect an externally adjustable tumbler. The lock includes a plurality of pin tumbler sets and a plurality of cylinders disposed one in the other in the lock casing. The pin tumbler sets and the cylinders cooperate to form a plurality of common pin tumbler shear lines, i.e., shear lines formed by a number of individual shear lines of individual pin tumbler sets. In a given position of the adjustable shear line, only one of the keys will position the pin tumblers to form the proper common pin tumbler shear which is aligned with the adjustable shear line to operate the lock. The rekeying structure of the lock is passive and its presence is not noticed when operating the lock. The lock also includes structure which indicates that the adjustable shear line is in one of the position with which a common tumbler shear line may be aligned. The lock further includes structure which locks the adjustable shear line in a given position.

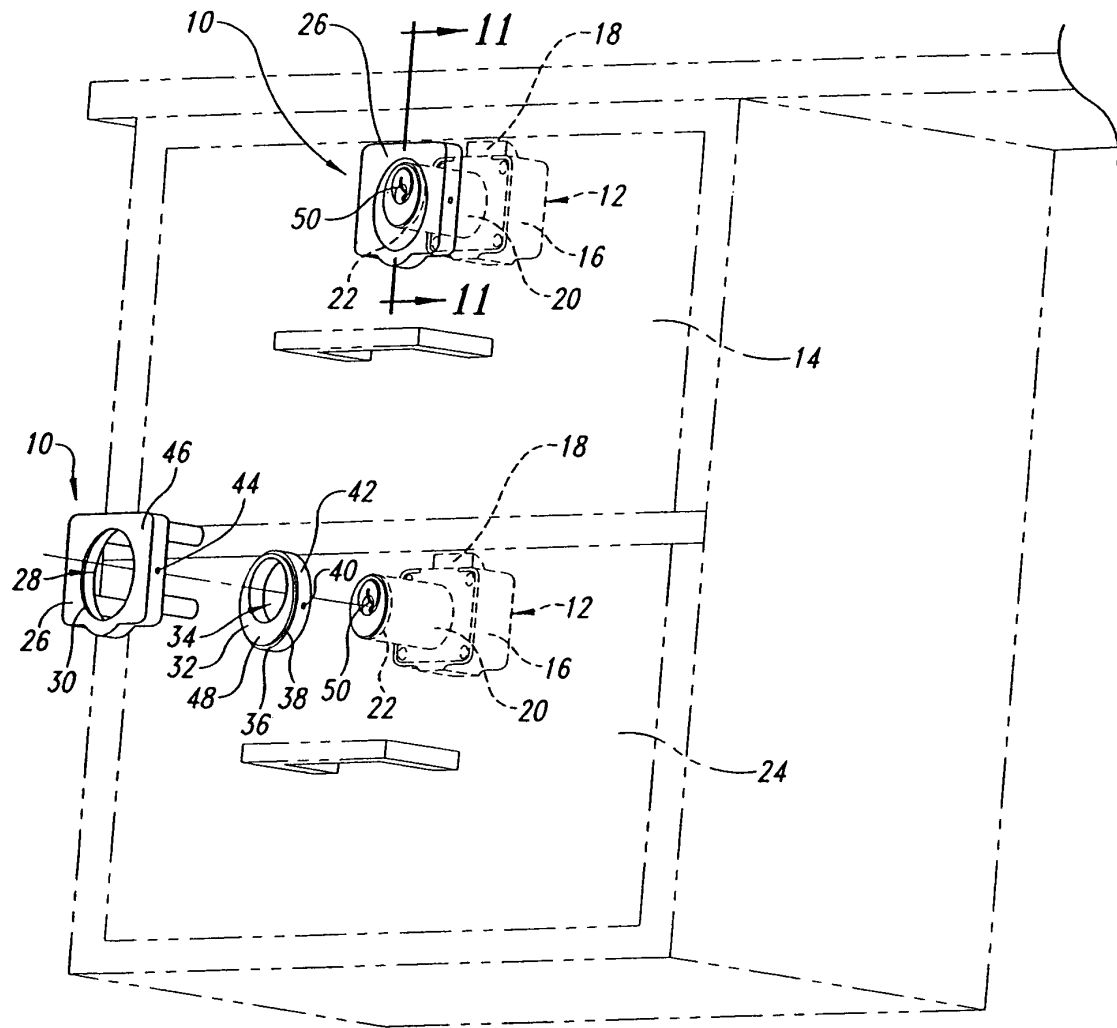
Family 55/100 - FAMPAT - ©Questel

Title

(US8276418)

Security cover plate with eccentric mounting aperture

Images



Abstract

(US20080156054)

A cover plate assembly 10 is provided for a cabinet door or drawer lock 12. A cover plate 26 defines a first circular aperture 28 and a rotatably circular cover plate insert 32 defines an eccentrically positioned second circular aperture 34. The second circular aperture 34 defines an inner diameter 33 sized to selectively receive the cylinder and plug assembly housing 20, and the insert 32 has an outer diameter 39 sized to fit within and selectively rotate with respect to the first circular aperture 28. During installation, the outer diameter 39 of the insert 32 is positioned within the first circular aperture 28, and the insert 32 is selectively rotated to a position that enables the cover plate assembly 10 to register with a bolt housing 16 and the second circular aperture 34 to register with a cylinder and plug assembly housing 20.

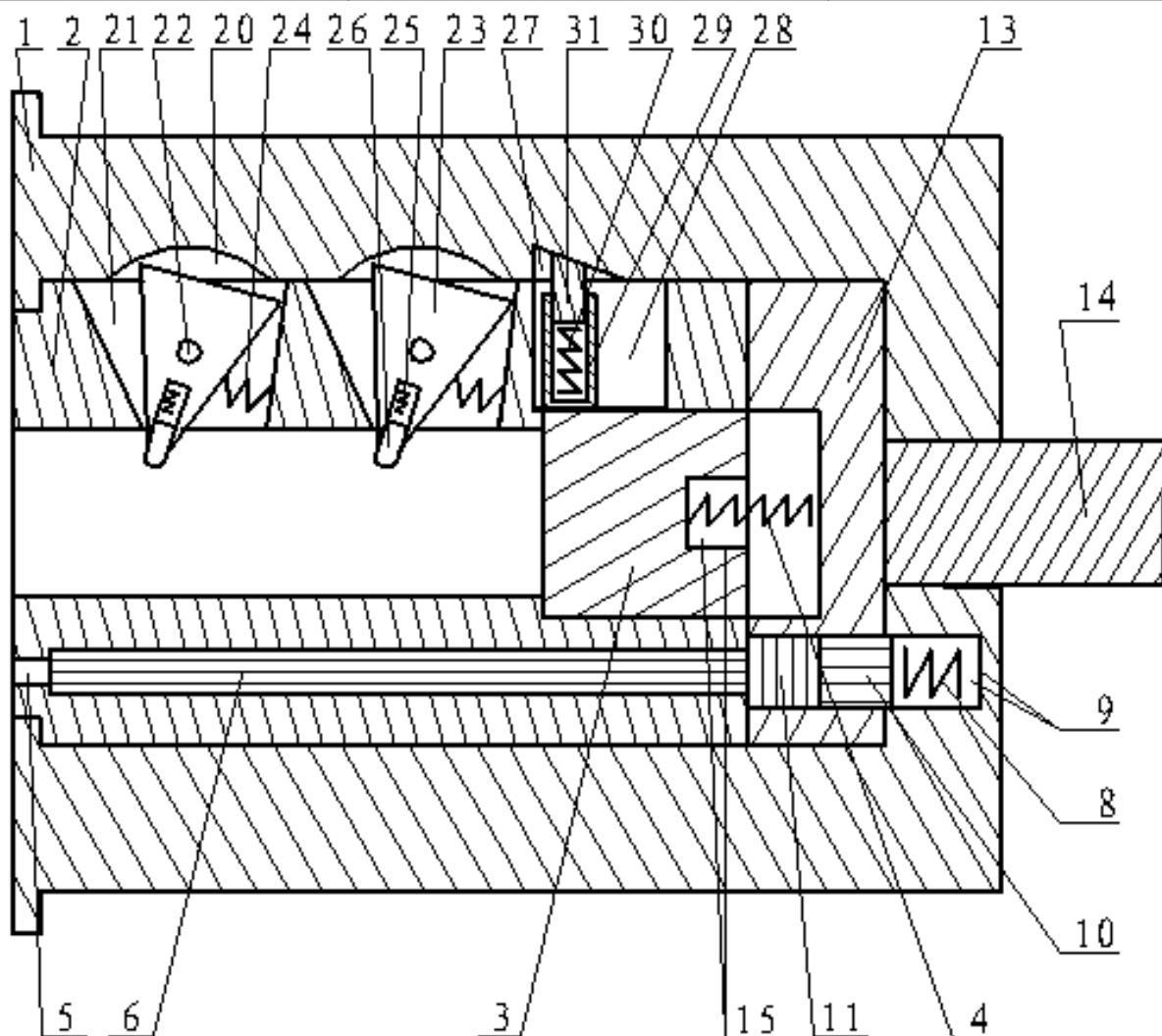
Family 56/100 - FAMPAT - ©Questel

Title

(CN104612466)

Mechanical side locking interlocking anti-theft lock

Images



Abstract

(CN104612466)

The invention discloses a mechanical side locking interlocking anti-theft **lock**. A rear **lock cylinder** of the mechanical side locking interlocking anti-theft **lock** is completely disconnected with a connecting body and a front **lock cylinder**, wherein a connecting hole is formed in the front face of the rear **lock cylinder**, and a passing hole for a connecting tongue to penetrate is formed in the rear face of the rear **lock cylinder**. The front **lock cylinder** is locked by side locking devices and connection locking devices, and the rear **lock cylinder** is locked through a locking head. The mechanical side locking interlocking anti-theft **lock** integrates mechanical interlocking, hiding and connection hiding of the front **lock cylinder** and the rear **lock cylinder**, a thief cannot open the side locking devices, the connection locking devices and an asynchronous locking device at the same time, and the rear **lock cylinder** cannot be rotated; even if the side locking devices and the connection locking devices are damaged with a brutal means, only the front **lock cylinder** can be rotated, the rear **lock cylinder** is locked by the locking head and is disconnected with the connecting body so that the rear **lock cylinder** cannot be rotated, and thus the complete anti-theft effect is achieved.

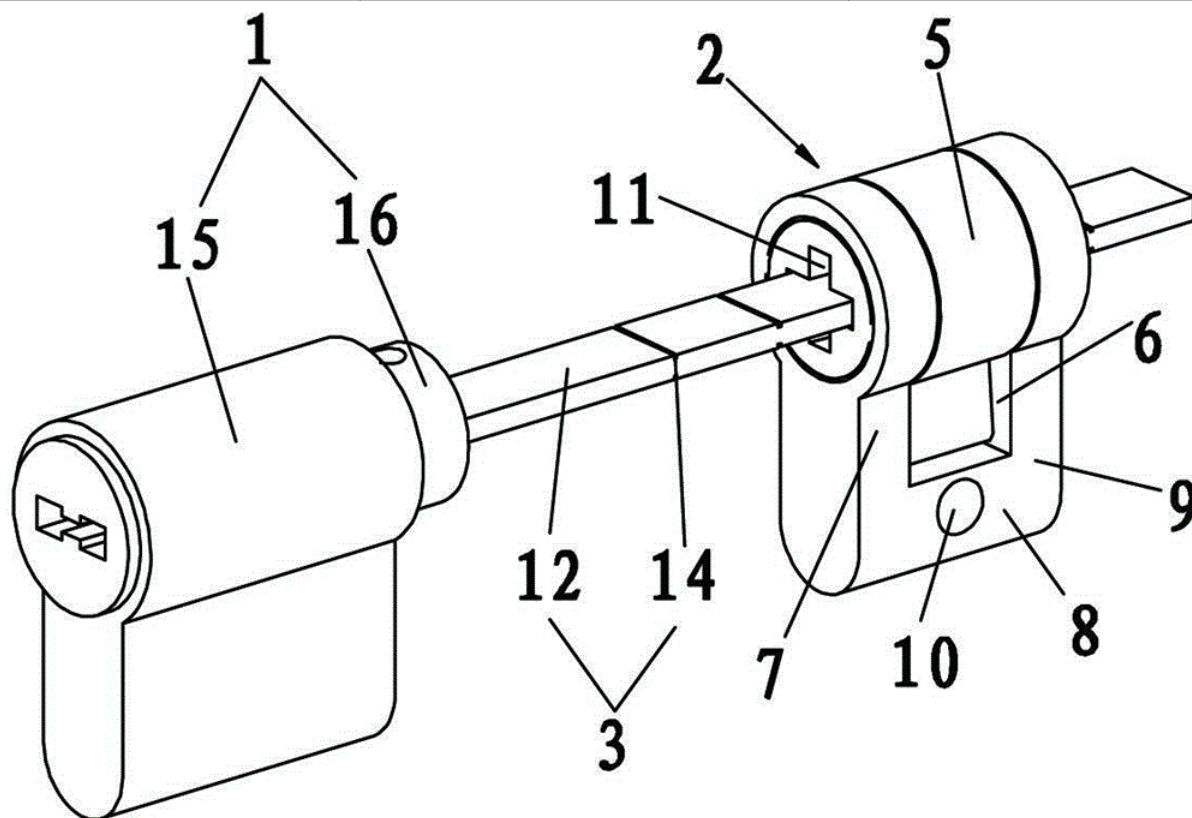
Family 57/100 - FAMPAT - ©Questel

Title

(CN104499780)

Lock cylinder structure

Images



Abstract

(CN104499780)

The invention belongs to the technical field of **lock cylinders**, and in particular relates to a **lock cylinder** structure. The **lock cylinder** structure comprises a main **lock cylinder**, a secondary **lock cylinder** and a drawing sheet; the main **lock cylinder** is connected with the secondary **lock cylinder** through the drawing sheet; the secondary **lock cylinder** comprises a secondary **lock cylinder** body, a first connecting column, a second connecting column and a **lock cylinder** drawing wheel; the secondary **lock cylinder** body is equipped with a mounting slot and an inserting slot; the **lock cylinder** drawing wheel is mounted into the mounting slot; a connecting cavity is formed in the **lock cylinder** drawing wheel; one of the ends of the first connecting column and the second connecting column is inserted into the connecting cavity, and while the other one of the ends of the first connecting column and the second connecting column is inserted into the inserting slot; the drawing sheet sequentially passes through the first connecting column, the **lock cylinder** drawing wheel and the second connecting column by a connecting manner; when unlocking through a key, the main **lock cylinder** drives the drawing sheet to drive the secondary **lock cylinder** to act so as to adapt to the general door plates of all thickness in the market. The **lock cylinder** structure is high in generality, saves the cost and improves the market competitiveness.

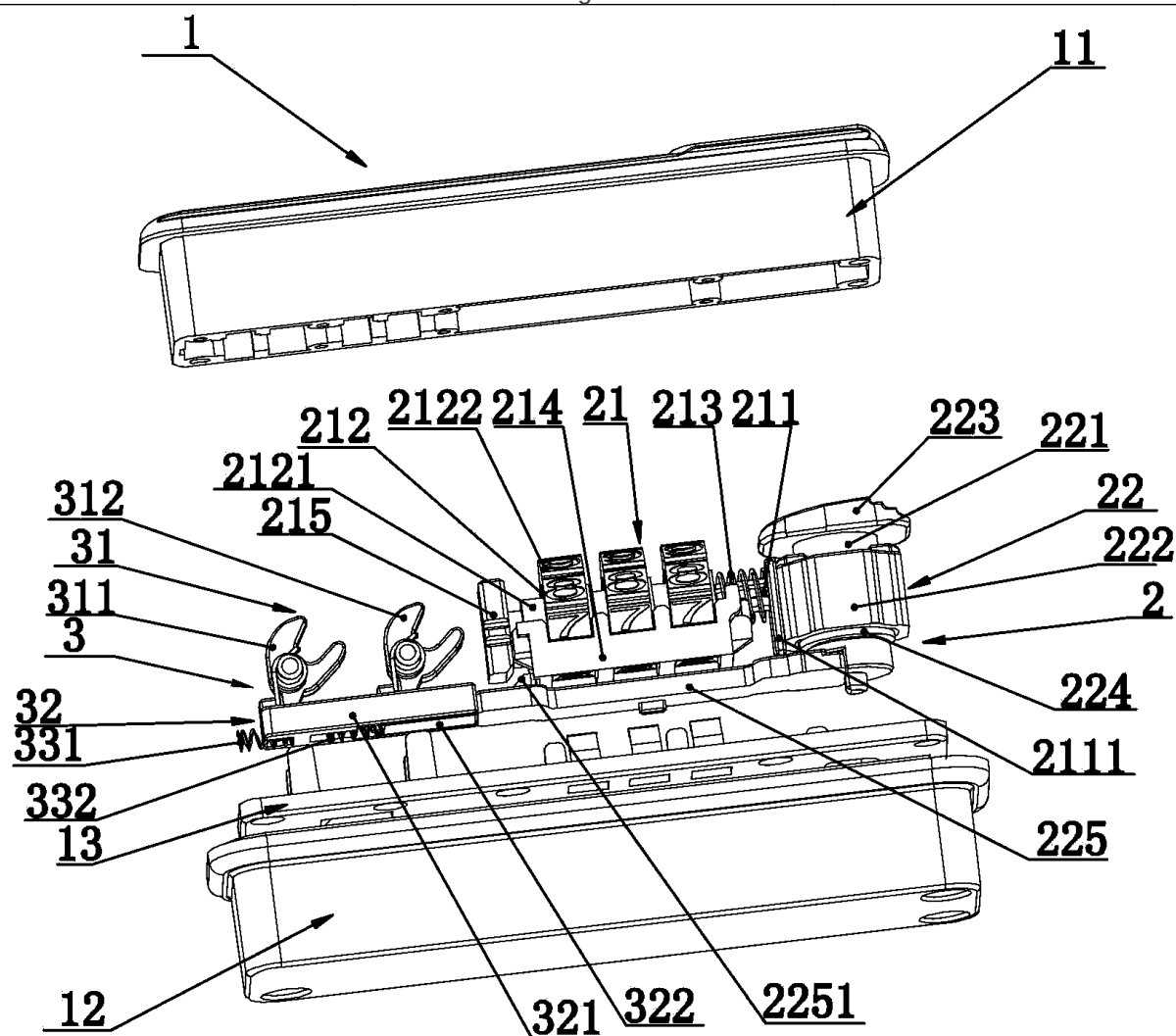
Family 58/100 - FAMPAT - ©Questel

Title

(CN103147638B)

Luggage bag zipper coded **lock**

Images



Abstract

(CN103147638)

The invention relates to a luggage bag zipper coded **lock**. The luggage bag zipper coded **lock** comprises a **lock** shell, a code wheel locking **mechanism**, a key **and lock** core **mechanism** **and** a locking hook **mechanism**, wherein the key **and lock** core **mechanism** comprises a **lock** core body; a **lock** core sleeve is sleeved on the **lock** core body to form a key **and lock** core combining body; the key **and lock** core combining body is arranged in a key **and lock** core accommodating cavity **and** can slide; a positioning groove is peripherally formed in an internal hole of the **lock** core sleeve; when the **lock** core body is in a correct key inserting state, a **lock** core inserting sheet on the **lock** core body is shrunk in the **lock** core body to release the positioning **lock** between the **lock** core inserting sheet **and** the positioning groove; the **lock** core body can freely rotate in the **lock** core sleeve; after a key is pulled out of the **lock** core body, the **lock** core inserting sheet on the **lock** core body extends into the positioning groove to be matched with the positioning groove in a positioning way; a loongson resists against the **lock** core sleeve through a loongson reset spring; a pushing block is arranged at one end, positioned in a key hole inserting opening, of the **lock** core body; the other end of the **lock** core body is linked with a pushing plate; **and** the pushing plate is linked with the locking hook **mechanism**. The luggage bag zipper coded **lock** has the advantages of compact structure, firmness, durability **and** small size.

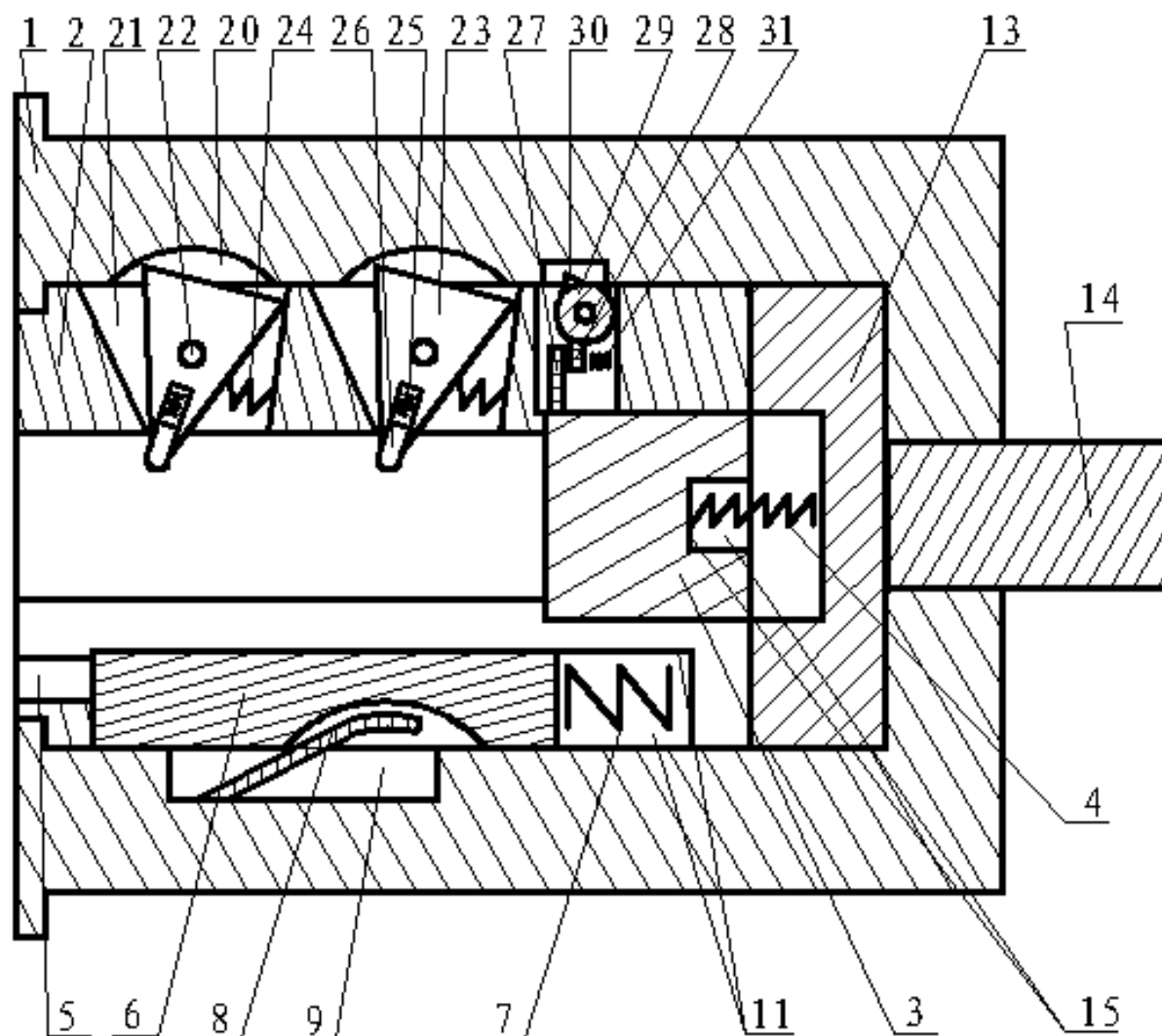
Family 59/100 - FAMPAT - ©Questel

Title

(CN104453396)

Side **lock** additional mechanical interlocking anti-theft **lock**

Images



Abstract

(CN104453396)

The invention discloses a side **lock** additional mechanical interlocking anti-theft **lock**. A back **lock cylinder** is completed separate from a front **lock cylinder** and is hidden in a hidden hole with a connecting body. An expanding hole locks the front **lock cylinder**. A guiding hole, a special key hole and the hidden hole are formed in the front **lock cylinder**. The connecting body is arranged in the hidden hole. The connecting body is separated from the back **lock cylinder**. A connecting hole is formed in the front face of the back **lock cylinder**, and a via hole for connecting tongue penetrating is fixed in the back face of the back **lock cylinder**. A sliding block and a sliding pushing spring are arranged in a sliding groove. An expanding end of the expanding piece locks the front **lock cylinder** in a locking groove. A side **lock** device and a rotating locking device **lock** the front **lock cylinder**. Mechanical interlocking hiding, hiding and front-back-**lock cylinder** connecting hiding are integrated so that a thief cannot open an inner supporting locking part and rotate the back **lock cylinder** at the same time, even if the inner supporting locking part and a connecting body part are damaged in a savage mode, only the front **lock cylinder** can be rotated, the back **lock cylinder** does not rotate, and complete anti-theft effect is achieved.

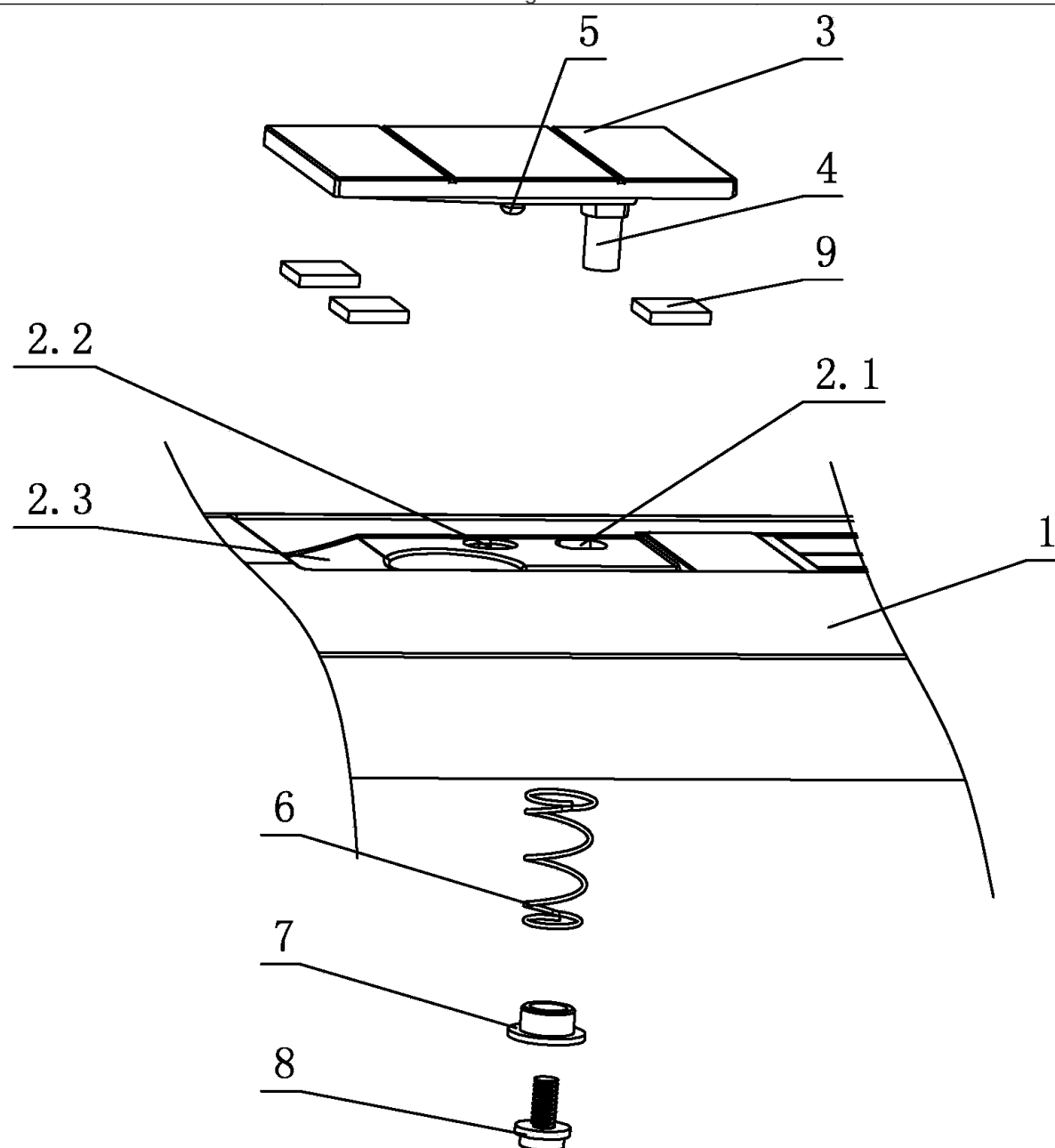
Family 60/100 - FAMPAT - ©Questel

Title

(CN204175024U)

Lock cylinder cover with rotating structure

Images



Abstract

(CN204175024)

A **lock cylinder** cover with a rotating structure comprises a **lock** body outer shell and is characterized in that a concave part is formed in the **lock** body outer shell and provided with a through hole and a **lock cylinder** cover body, a rotating shaft is arranged on the **lock cylinder** cover body which penetrates through the through hole in the concave part through the rotating shaft so as to rotate around the rotating shaft on the concave part, and therefore the effect of shielding the concave part by the **lock cylinder** cover body is achieved. The rotating shaft is arranged on the **lock cylinder** cover body and provided with a spring telescoping mechanism, and in this way, the **lock cylinder** cover body can rotate around the rotating shaft and move vertically through the rotating shaft and the spring telescoping mechanism. The **lock cylinder** cover body is limited in rotation through a limiting shaft arranged on the **lock cylinder** cover body. The plane concealing performance of the **lock cylinder** cover is high, and through various opening structures, the **lock cylinder** cover can be screwed open by hand, and will not separate and fall off. Meanwhile, due to the mechanical structure, the **lock cylinder** cover is high in reliability and has the advantages of being simple and reasonable in structure, easy and convenient to operate, long in service life, high in stability and the like.

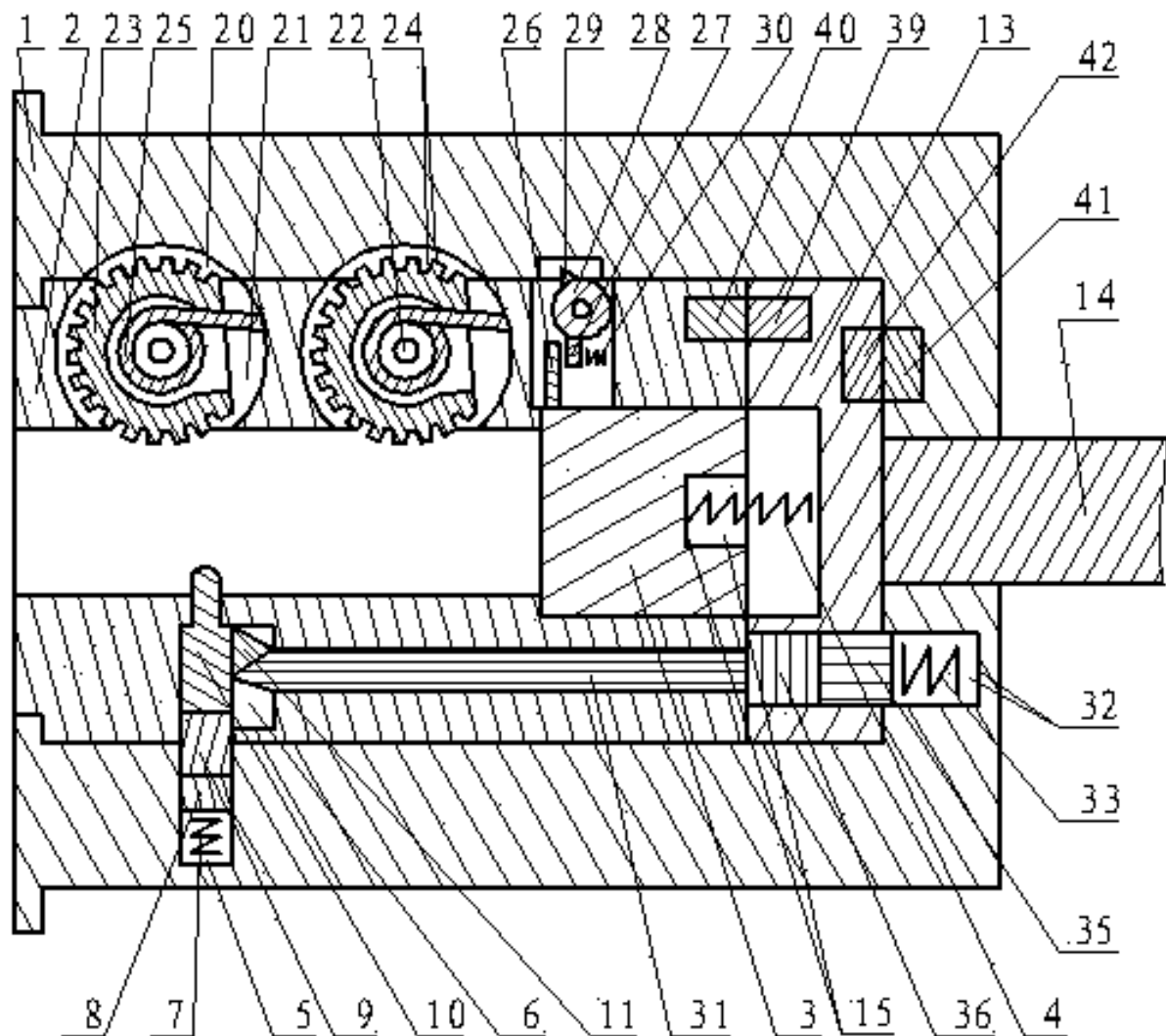
Family 61/100 - FAMPAT - ©Questel

Title

(CN104499823)

Electromechanical interlocking anti-theft warning tooth pushing lock

Images



Abstract

(CN104499823)

The invention discloses an electromechanical interlocking anti-theft warning tooth pushing lock. A rear lock cylinder of the electromechanical interlocking anti-theft warning tooth pushing lock is completely disconnected from a connector and a front lock cylinder; the connector is hidden in an invisible hole; a tooth rotation wheel, a rotation angle and a rotation disk lock the front lock cylinder, a locking head locks the rear lock cylinder, the front and rear lock cylinders asynchronously rotate for warning, and an electronic remote control device is mounted in a power supply circuit of an electromagnet. The electromechanical interlocking anti-theft warning tooth pushing lock integrates the functions of electromechanical interlocking invisibility, mechanical interlocking, invisibility, connecting invisibility of the front lock cylinder and the rear lock cylinder and asynchronous warning, so that a thief cannot open an interlocking device and cannot rotate the rear lock cylinder; even if a tooth pushing device and a connecting locking device are damaged in a barbarous way, only the front lock cylinder can be rotated while the rear lock cylinder cannot be rotated. Even if the thief drills out the front lock cylinder and the rear lock cylinder by using an electric hand drill and rotates a connecting tongue by using a tool such as a clamp, a rotary contact is not in contact with a fixed contact, so that the power supply circuit of the electromagnet cannot be switched on; in addition, the electronic remote control device switches off the power supply circuit of the electromagnet, and a transverse safety lock pin cannot be opened, so that a complete and thorough anti-theft effect can be achieved.

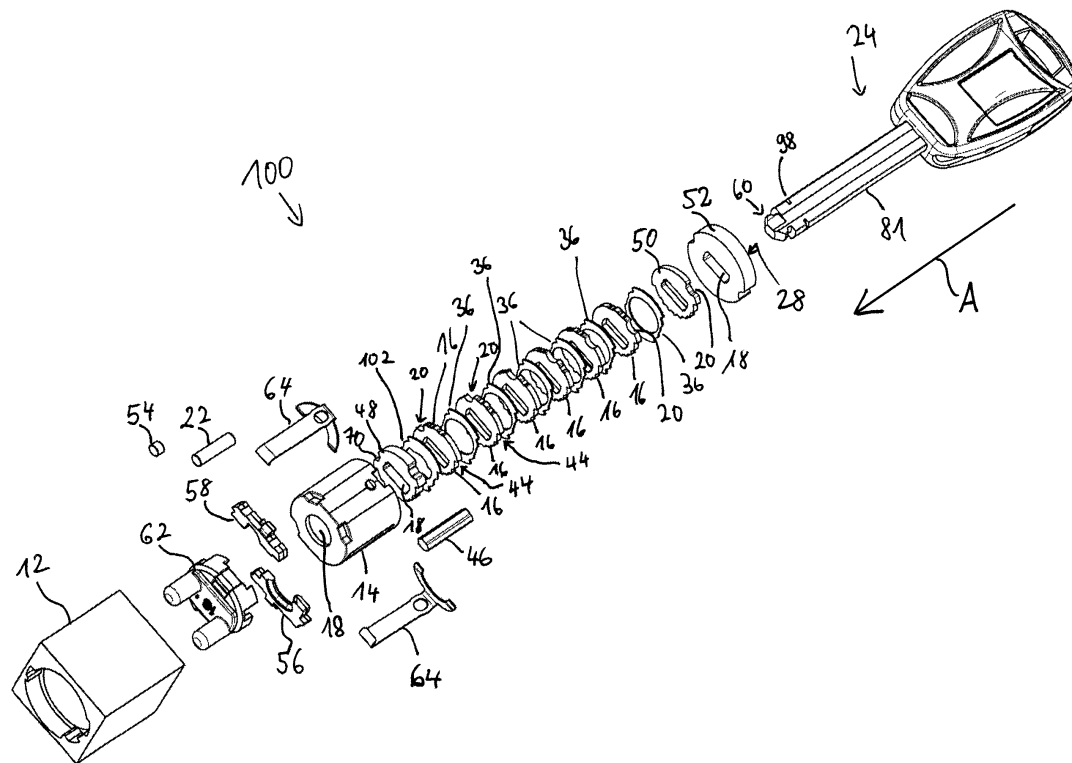
Family 62/100 - FAMPAT - ©Questel

Title

(EP3045621)

Lock cylinder, key and key blank

Images



Abstract

(EP3045621)

A **lock cylinder** comprises a **cylinder** housing, a disk housing rotatably supported about a **cylinder** axis in the **cylinder** housing, a plurality of rotatably supported disk tumblers arranged along the **cylinder** axis in the disk housing, wherein each disk tumbler has a reception opening for a key, **and** a blocking element which is arranged in front of the disk tumblers, with respect to the key introduction direction, **and** is rotationally coupled to the disk housing. The blocking element is movable by a rotation of the key in an unlatching direction out of a blocking position in which the blocking element engages into a reception recess at the inner wall of the **cylinder** housing into a release position in which the blocking element is out of engagement with the reception recess.

(From US10358842 B2)

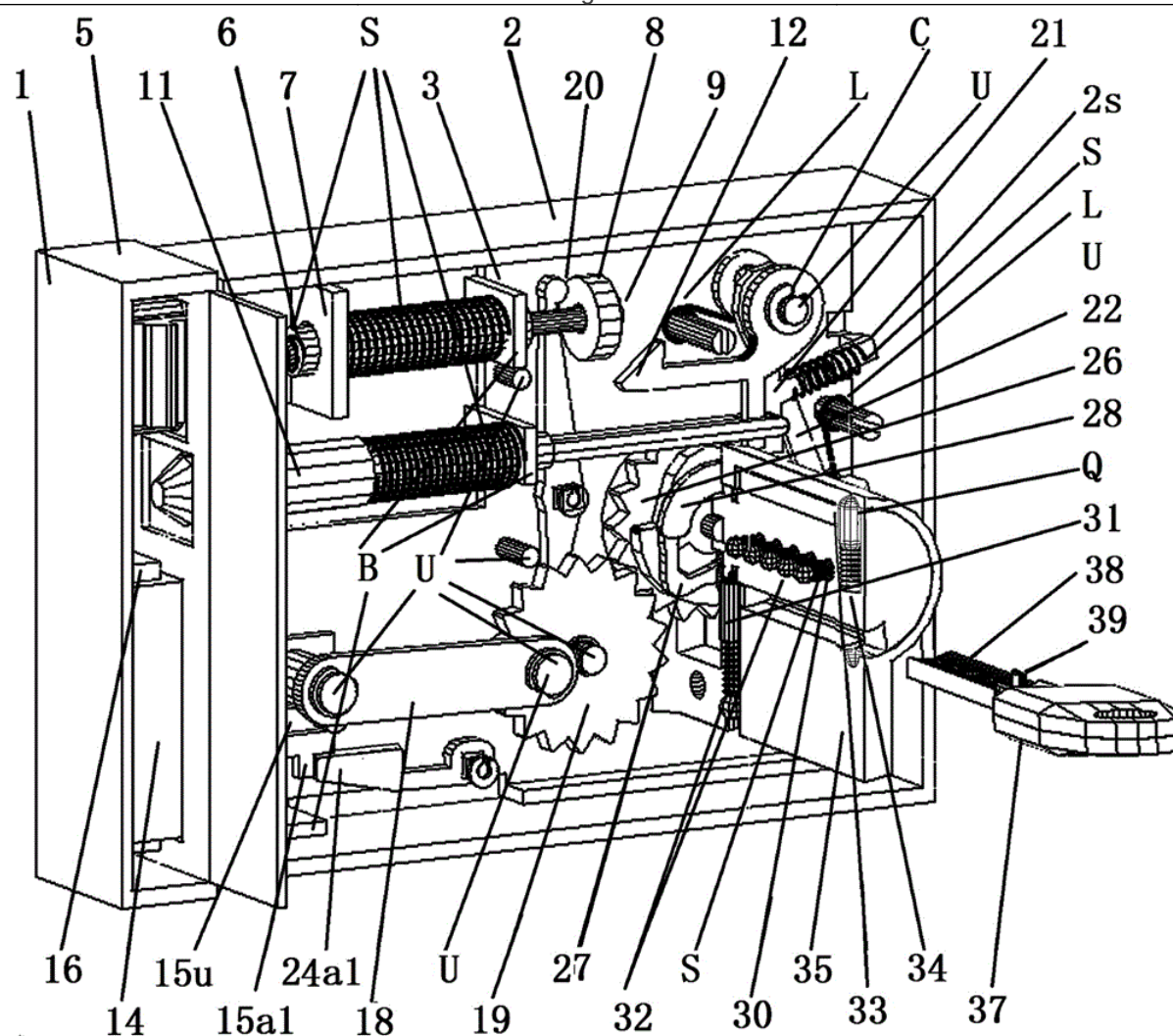
Family 63/100 - FAMPAT - ©Questel

Title

(CN104110175)

Anti-technical-unlocking automatic door **lock**, anti-technical-unlocking idle **cylinder** **and** anti-technical-unlocking automatic engaging-disengaging key

Images



Abstract

(CN104110175)

The invention relates to an automatic door **lock**, an idle **cylinder** and an automatic engaging-disengaging key, belongs to the field of burglar prevention and aims to prevent technical unlocking. The automatic door **lock** comprises a latch, a housing, an auxiliary latch bolt **mechanism**, a reset **mechanism**, a main bolt **mechanism**, a switch **mechanism** and a safety locking **mechanism**. The auxiliary latch bolt **mechanism** comprises a latch bolt; at least one side of the latch bolt is provided with a groove. The main bolt **mechanism** comprises a slider bolt, an inner bolt and an outer bolt; the slider bolt and the inner bolt fit with each other and are slidably and retractably mounted inside the outer bolt. The idle **cylinder** comprises a **cylinder** shell, a **cylinder** body, a locking plate and a transmission shift wheel; the **cylinder** body comprises an inner plug and a plug sleeve; the inner plug and the plug sleeve are idly mounted inside a **cylinder** hole; during unlocking or locking, a key hole of the inner plug and key grooves of the plug sleeve automatically stagger at a certain angle and synchronously rotate. The automatic engaging-disengaging key comprises a key stem and key teeth. During unlocking, unlocking is achieved by a separation method of automatically hiding the key teeth.

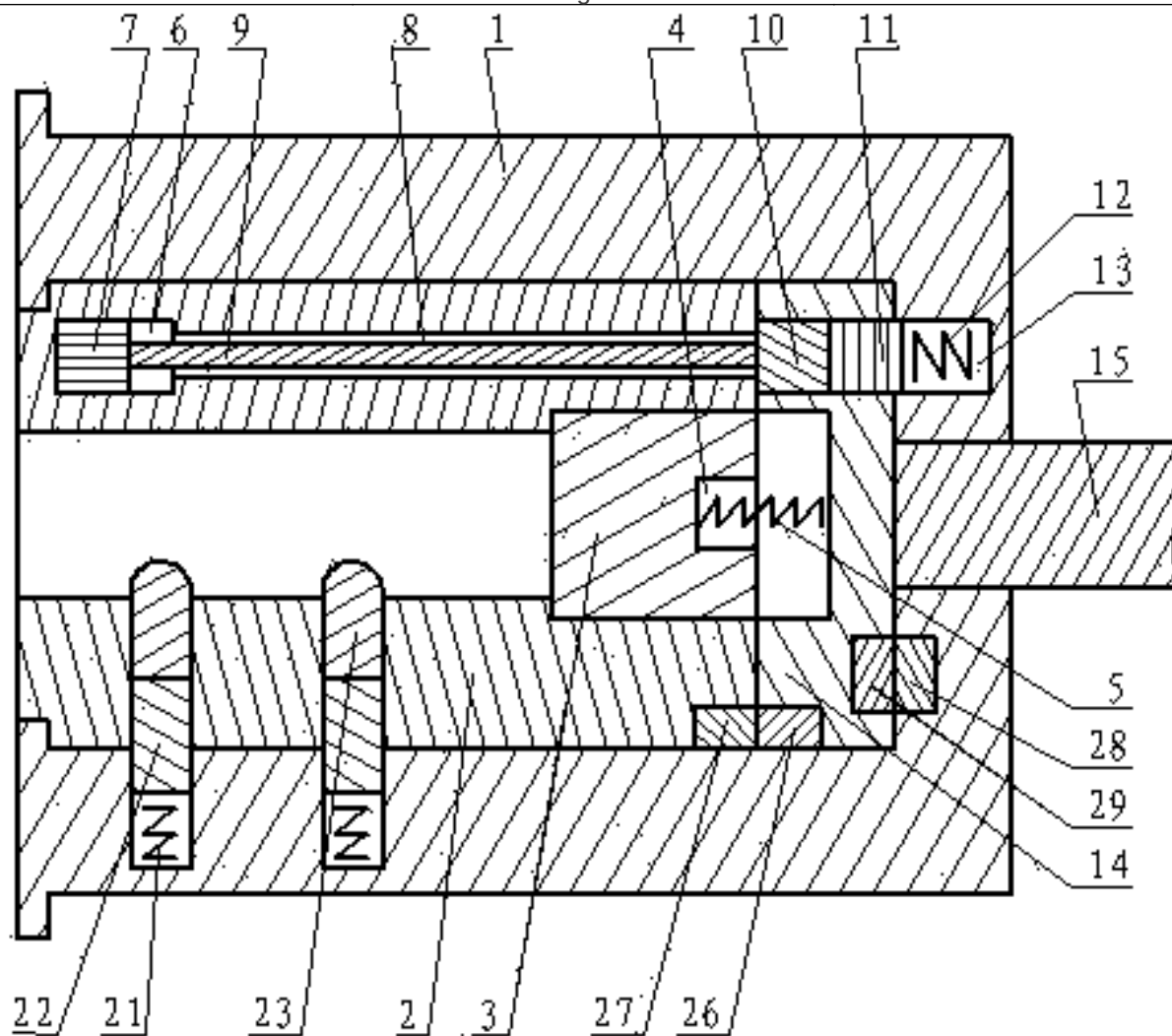
Family 64/100 - FAMPAT - ©Questel

Title

(CN104631935)

Anti-theft electromechanical interlocking magnetic repulsion alarm **lock**

Images



Abstract

(CN104631935)

The invention discloses an anti-theft electromechanical interlocking magnetic repulsion alarm lock. A rear lock cylinder is completely disconnected with a connector and a front lock cylinder. The connector is hidden in a hidden hole, a locking column locks the front lock cylinder, and magnetic repulsion locks and attractive locks are hidden in a lock body and the lock cylinders to lock the rear lock cylinder. The front lock cylinder and the rear lock cylinder asynchronously rotate for alarming. An electronic remote control device is arranged in a power supply circuit of electromagnets. The lock integrates electromechanical interlocking invisibility, mechanical interlocking, invisibility, front lock cylinder and rear lock cylinder connection invisibility and asynchronous alarm, a thief cannot open an interlocking device and rotate the rear lock cylinder, only the front lock cylinder can be rotated even if the locking column is damaged through the barbaric means, and the rear lock cylinder cannot be rotated; even if the thief removes the front lock cylinder and the rear lock cylinder through an electric hand drill, a connection tongue is rotated through a clamp and the like, the power supply circuit of the electromagnets cannot be switched on due to the fact that no fixed contact exists to make contact with a rotating contact, the power supply circuit of the electromagnets is cut off through the electronic remote control device, and a safety lock bolt cannot be opened.

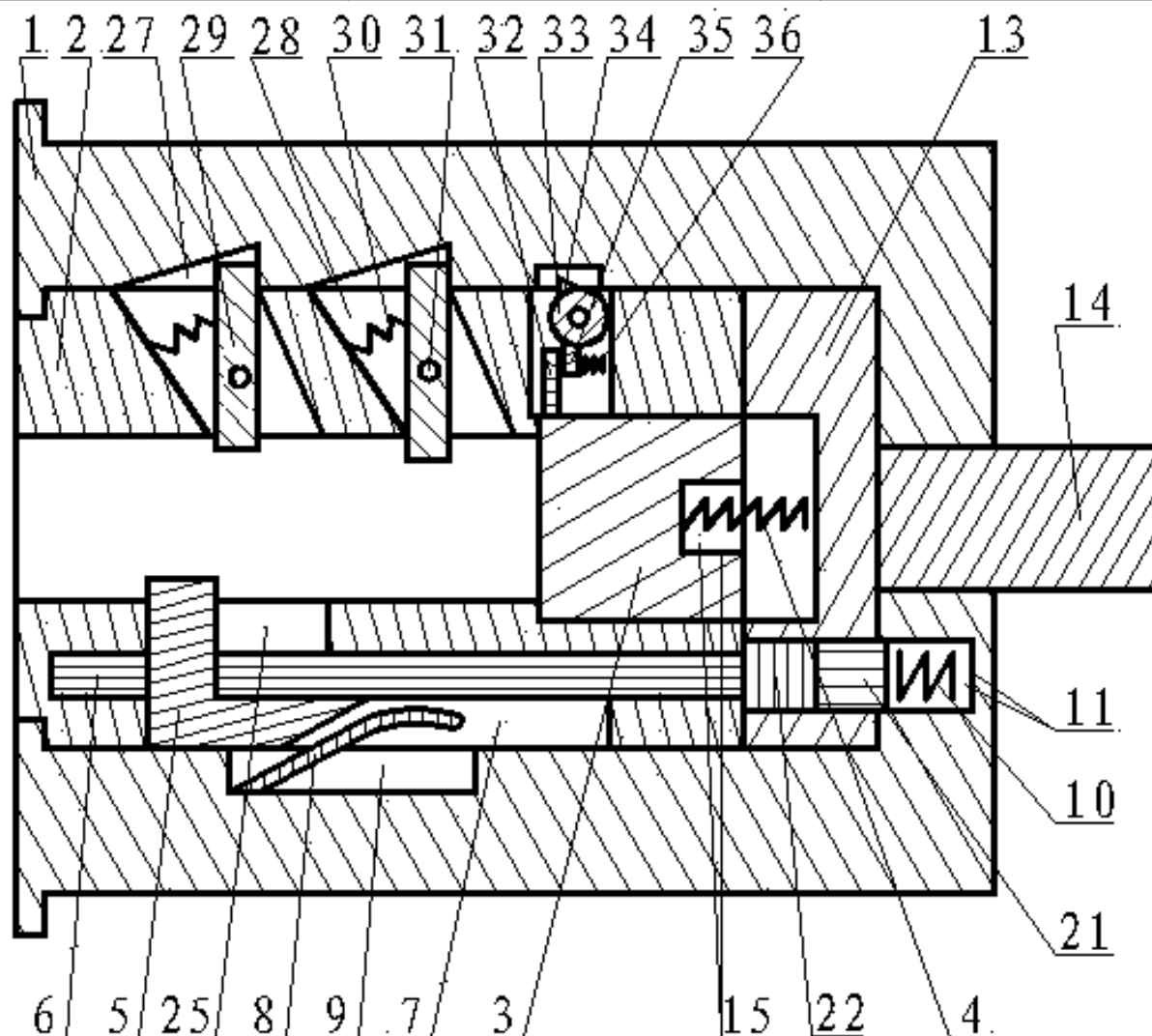
Family 65/100 - FAMPAT - ©Questel

Title

(CN104453469)

Interlocking mechanical elasticity-free anti-theft multi-locking lock

Images



Abstract

(CN104453469)

The invention discloses an interlocking mechanical elasticity-free anti-theft multi-locking **lock**. In the interlocking mechanical elasticity-free anti-theft multi-locking **lock**, a rear **lock cylinder** and a front **lock cylinder** are completely disconnected with a connecting body, a sliding rod is arranged in a sliding hole in the front **lock cylinder**, the connecting body is installed in an invisible hole in the front **lock cylinder**, a squeezing block is fixed to the sliding rod, a connecting spring bolt at the rear end of the rear **lock cylinder** penetrates through a via hole and then is connected with a linkage **mechanism** and connected with a spring bolt, a locking head is arranged at the front face of a locking spring in a locking bearing hole, the locking head and an ejector post are installed in a locking hole, the sliding rod in the front face of the ejector post is installed in a squeezing groove and the sliding hole, the expansion end of an expansion piece stretches into the squeezing groove to **lock** the front **lock cylinder**, and an inclined locking device and a rotary locking device **lock** the front **lock cylinder**. Mechanical interlocking, invisibility and front and rear **lock cylinder** connection invisibility are integrated, and therefore a thief cannot open an interlocking device or rotate the rear **lock cylinder**. Even if the thief damages interlocking and the self-locking portions in a savage means, only the front **lock cylinder** can be rotated, and the rear **lock cylinder** cannot be rotated. The complete and thorough anti-theft effect is achieved.

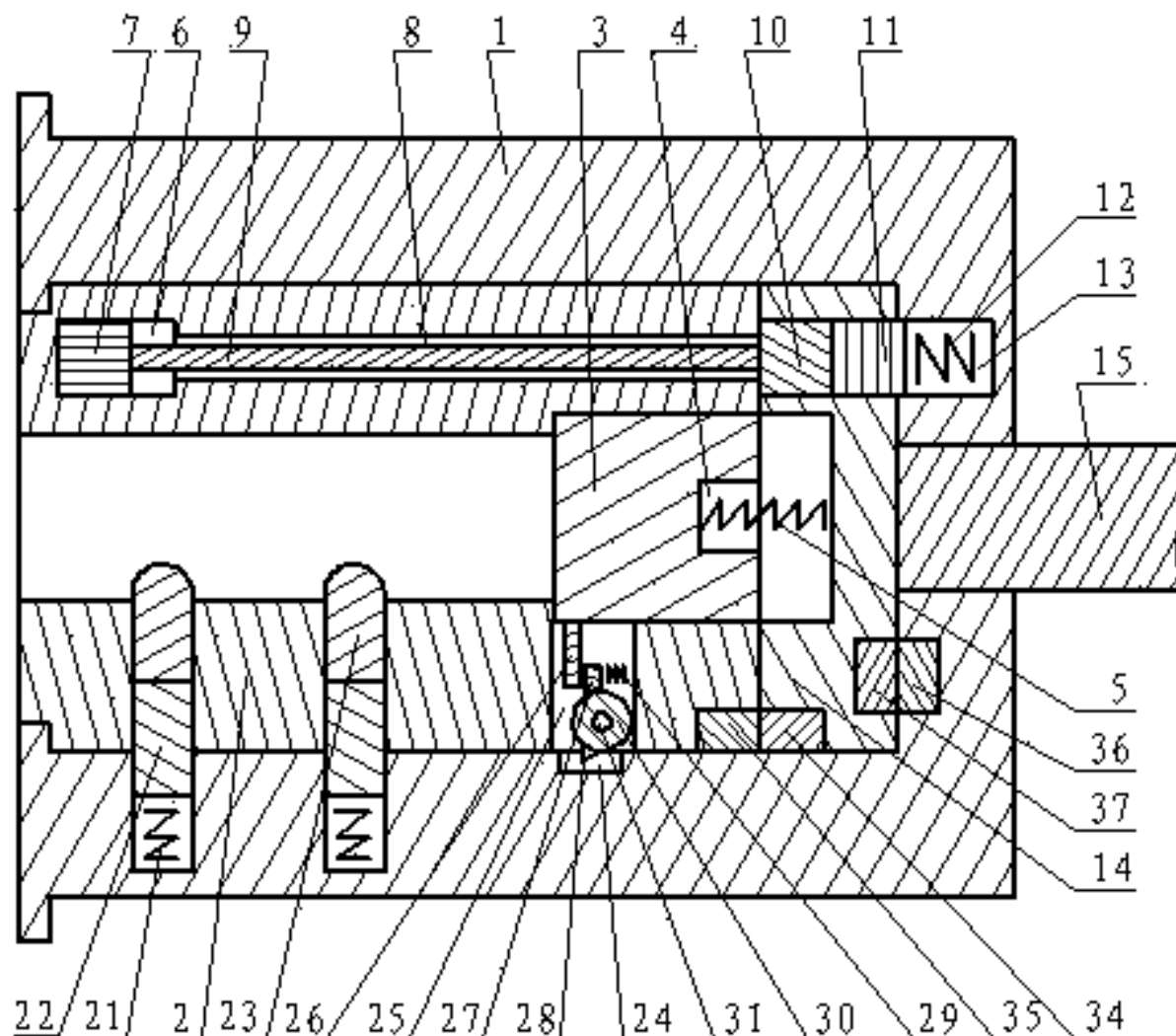
Family 66/100 - FAMPAT - ©Questel

Title

(CN104631936)

Interlocking magnetic-repulsion electromechanical anti-theft alarm **lock**

Images



Abstract

(CN104631936)

The invention discloses an interlocking magnetic-repulsion electromechanical anti-theft alarm **lock**. A rear **lock cylinder** of the **lock** is completely disconnected with a connecting body **and** a front **lock cylinder**, the connecting body is hidden in an invisible hole, a corner **and** a turntable locks the front **lock cylinder**, a magnetic-repulsion locking part **and** an attraction locking part are hidden in a **lock body and** the **lock cylinder** to **lock** the rear **lock cylinder**, the front **lock cylinder and** the rear **lock cylinder** asynchronously rotate to give an alarm, an electronic remote control device is installed in a power supply circuit of an electromagnet **and** interrupts the power supply circuit of the electromagnet, **and** a safety **lock** crosspiece cannot be opened. The interlocking magnetic-repulsion electromechanical anti-theft alarm **lock** integrates electromechanical interlocking invisibility, mechanical interlocking, invisibility, connecting invisibility of the front **lock cylinder and** the rear **lock cylinder and** asynchronous alarming so that a theft cannot open an interlocking device **and** turn the rear **lock cylinder**, **and** even if the theft adopts a brutal means to damage a side locking device **and** a rotary locking device, only the front **lock cylinder** can be turned, **and** the rear **lock cylinder** cannot be turned.

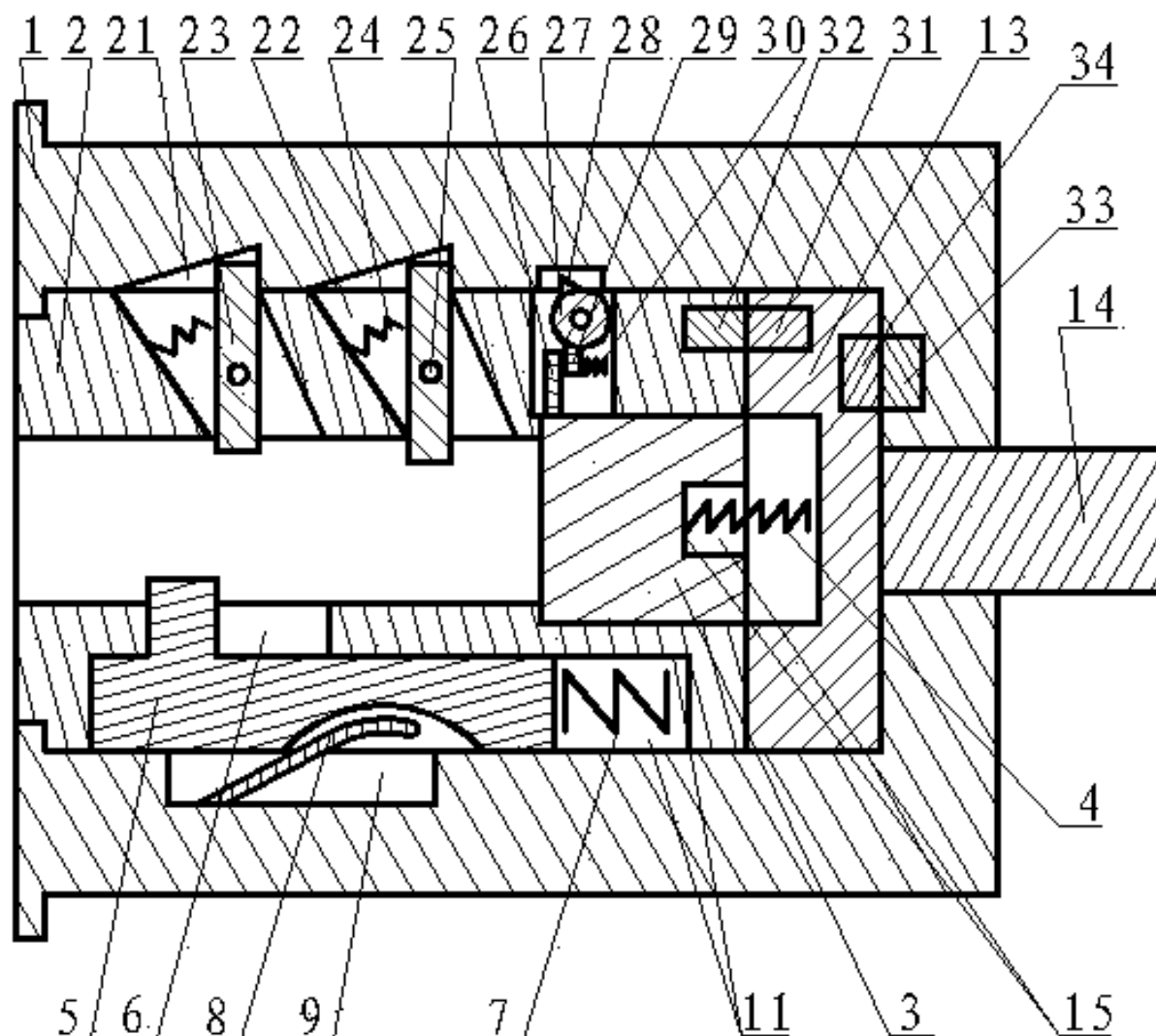
Family 67/100 - FAMPAT - ©Questel

Title

(CN104453423)

Interlocking marble-free electromechanical anti-theft alarm multiple **lock**

Images



Abstract

(CN104453423)

The invention discloses an interlocking marble-free electromechanical anti-theft alarm multiple **lock**. A connecting body of the **lock** is hidden in an invisible hole **and** is disconnected from a rear **lock cylinder**. An expansion sheet, a rotary block, a rotary angle **and** a rotary disk **lock** a front **lock cylinder**. The front **lock cylinder** **and** the rear **lock cylinder** rotate asynchronously to give an alarm. An electronic remote control device is invisibly mounted in a power supply circuit of an electromagnet. The interlocking marble-free electromechanical anti-theft alarm multiple **lock** integrates electromechanical interlocking invisibility, mechanical interlocking invisibility, connection invisibility of the front **lock cylinder** **and** the rear **lock cylinder** **and** asynchronous warning, so a thief can not open an interlocking device **and** rotate the rear **lock cylinder**, the thief can only rotate the front **lock cylinder** even after damaging an internal supporting **lock** stopper **and** the connecting body by a barbaric means, **and** the rear **lock cylinder** can not be rotated. Even if the thief drills off both the front **lock cylinder** **and** the rear **lock cylinder** through an electric hand drill **and** rotates a connecting tongue through tools such as a clamp, the power supply circuit of the electromagnet can not be powered on since a rotating contact does not make contact with a fixed contact; besides, the electronic remote control device breaks off the power supply circuit of the electromagnet, **and** a safety latch can not be opened, so that a thorough anti-theft effect is achieved.

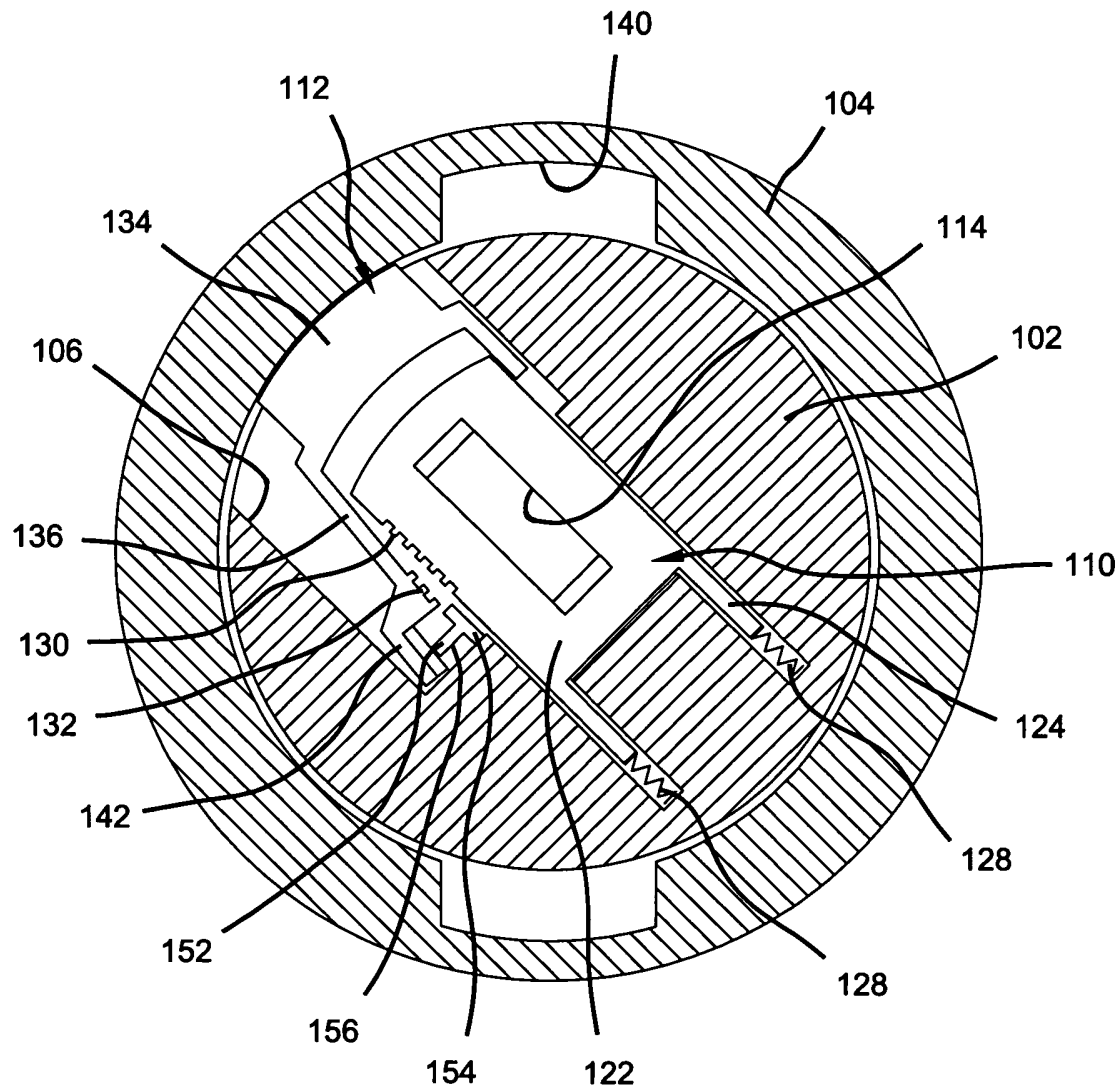
Family 68/100 - FAMPAT - ©Questel

Title

(EP1538285)

Re-keyable **lock and** method

Images



Abstract

(EP1538285)

A re-keyable **lock** and method. The **lock** has locked and unlocked positions and includes a housing and a **cylinder** rotatably supported in the housing. The **lock** includes a plurality of wafer tumblers resiliently supported in corresponding channels formed in the **cylinder**. Each wafer tumbler includes a rider element selectively engaged with a base element in first and second engagement positions, wherein the first engagement position corresponds to a first key and the second engagement position corresponds to a second key. The **lock** also includes a re-keying **mechanism** such as a re-keying tool which is inserted in a re-keying slot when the **lock** is in the unlocked position to disengage the rider element from the corresponding base element in the first engagement position and to re-engage the rider element to the base element in the second engagement position.

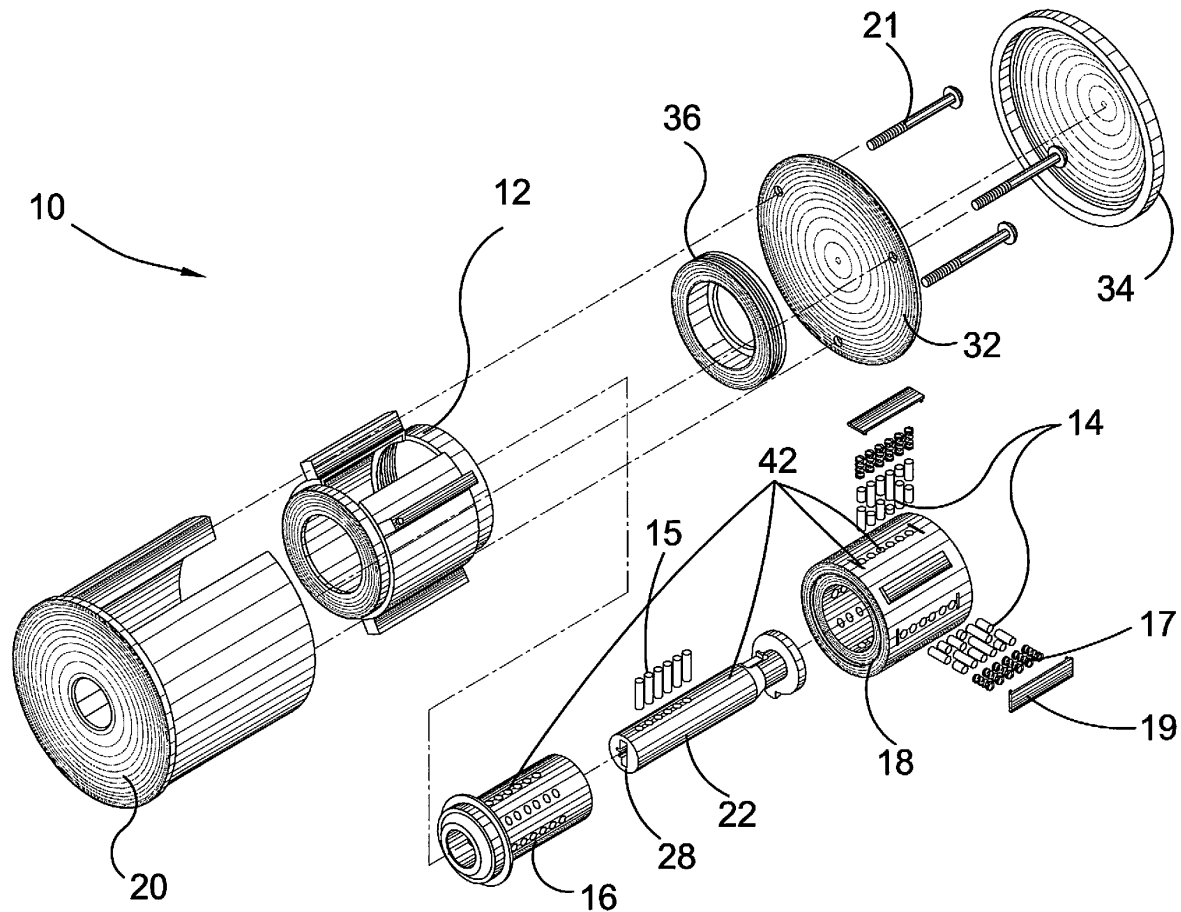
Family 69/100 - FAMPAT - ©Questel

Title

(US7340929)

Axially rotative **rekeyable lock**

Images



Abstract

(US7340929)

A **lock** apparatus able to be installed in a structure comprising an outer sleeve having a plurality of outer rows extending transversely therethrough **and** radially therearound **and** a first bore extending through substantially a center thereof. An inner sleeve having a second bore extending through substantially a center thereof **and** is releasably connected within the first bore. The inner sleeve includes a plurality of inner rows extending therethrough wherein each respective inner row is aligned with a respective one of the plurality of outer rows. A plurality of user selectable pin sets is positioned within the plurality of outer **and** inner rows. A **lock** core for receiving a key therein is releasably connected within the second bore **and** includes a core pin set wherein a respective one of the plurality of user selectable pin sets is aligned with the core pin set creating an active pin formulation. A means for changing said active pin formulation is connected within each of the core **and** the inner **and** outer sleeves for changing the active pin formulation.

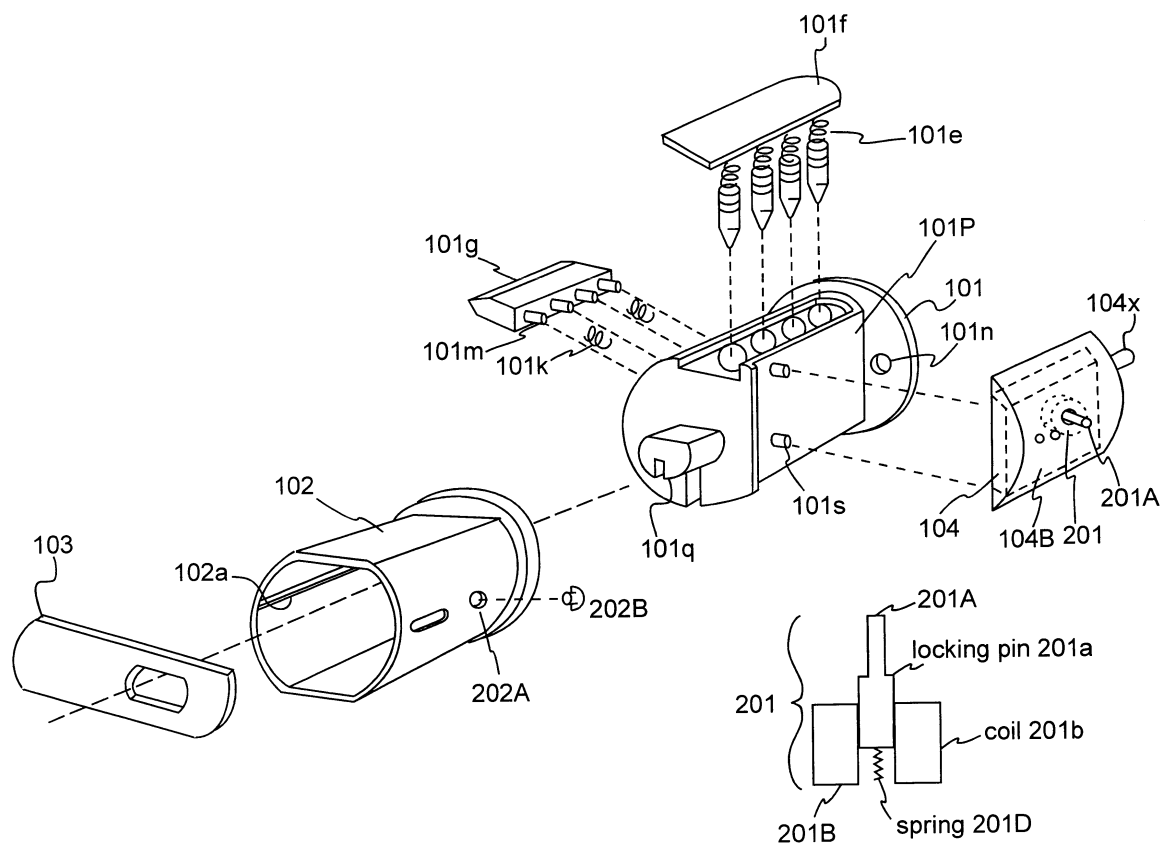
Family 70/100 - FAMPAT - ©Questel

Title

(US20040107751)

Electromechanical **cylinder** plug

Images



Abstract

(US20040107751)

An electromechanical locking **mechanism** provides a plug with a **rekeyable** primary **lock** mechanism such as a tumbler stack, an electromechanical operator such as a solenoid or a motor, **and** an electronic circuit having a memory, or an electronic memory **and** an electronic logic stage, controlling activation **and** operation of the electromechanical operator, contained entirely within the plug. Insertion of a blade of a key that is properly profiled **and** bitted to correctly displace the primary **lock** assembly relative to a **cylinder** encasing the plug, **and** application by the key of electrical power, or of electrical power **and** a correct data signal, to the electronic circuit, will cause activation of the electrical operator **and** repositioning of a distal member of the operator relative to the **cylinder**, **and** thereby enable torque manually applied to the blade of the key to rotate the plug within the **cylinder**.

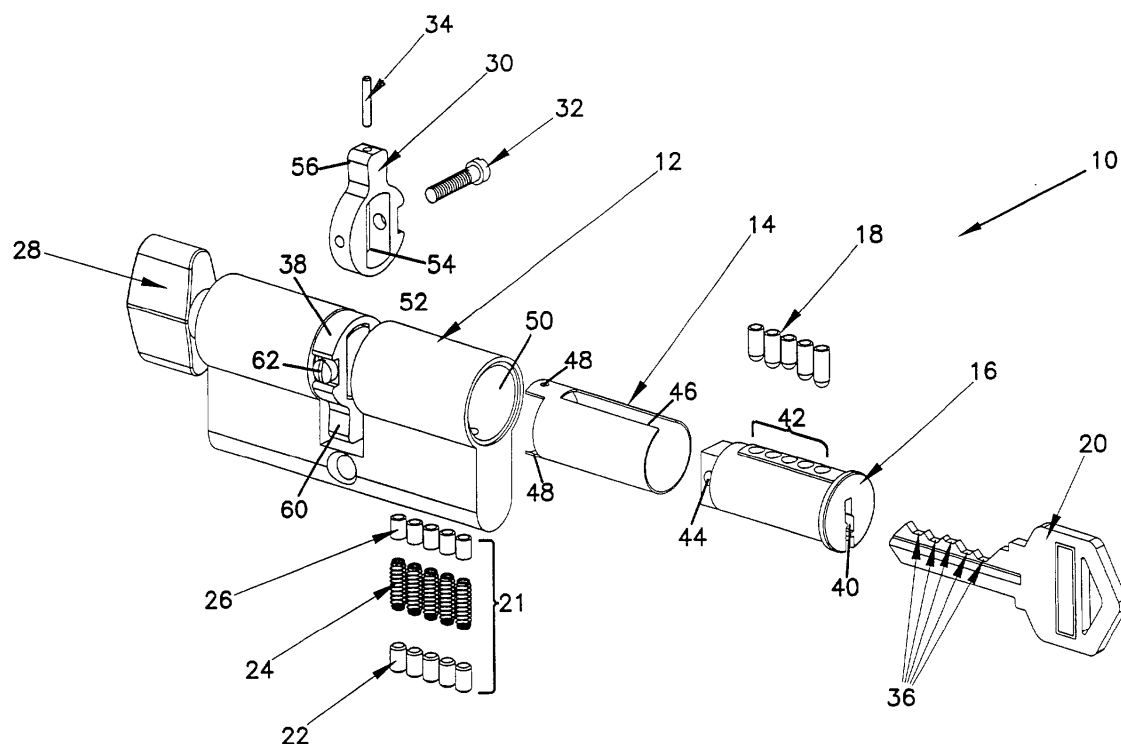
Family 71/100 - FAMPAT - ©Questel

Title

(US20030159483)

Rekeyable mortise **lock**

Images



Abstract

(US20030159483)

A **lock** apparatus includes a housing having a cylindrical bore formed therein **and** a cam rotatably mounted in the housing. A cylindrical sleeve having a notch formed therein rotatably mounts in the bore of the housing. A **cylinder** core inserts into the sleeve **and** engages the cam. The core including multiple tumblers **and** the housing has a corresponding number of drivers biased toward the bore **and** engaging the tumblers through the notch **and** aligned along the periphery of the bore when a proper key is inserted. When the sleeve is rotated, the drivers are captured in their bores, allowing the core to be easily removed without a tube or special tools **and** providing for simple rekeying.

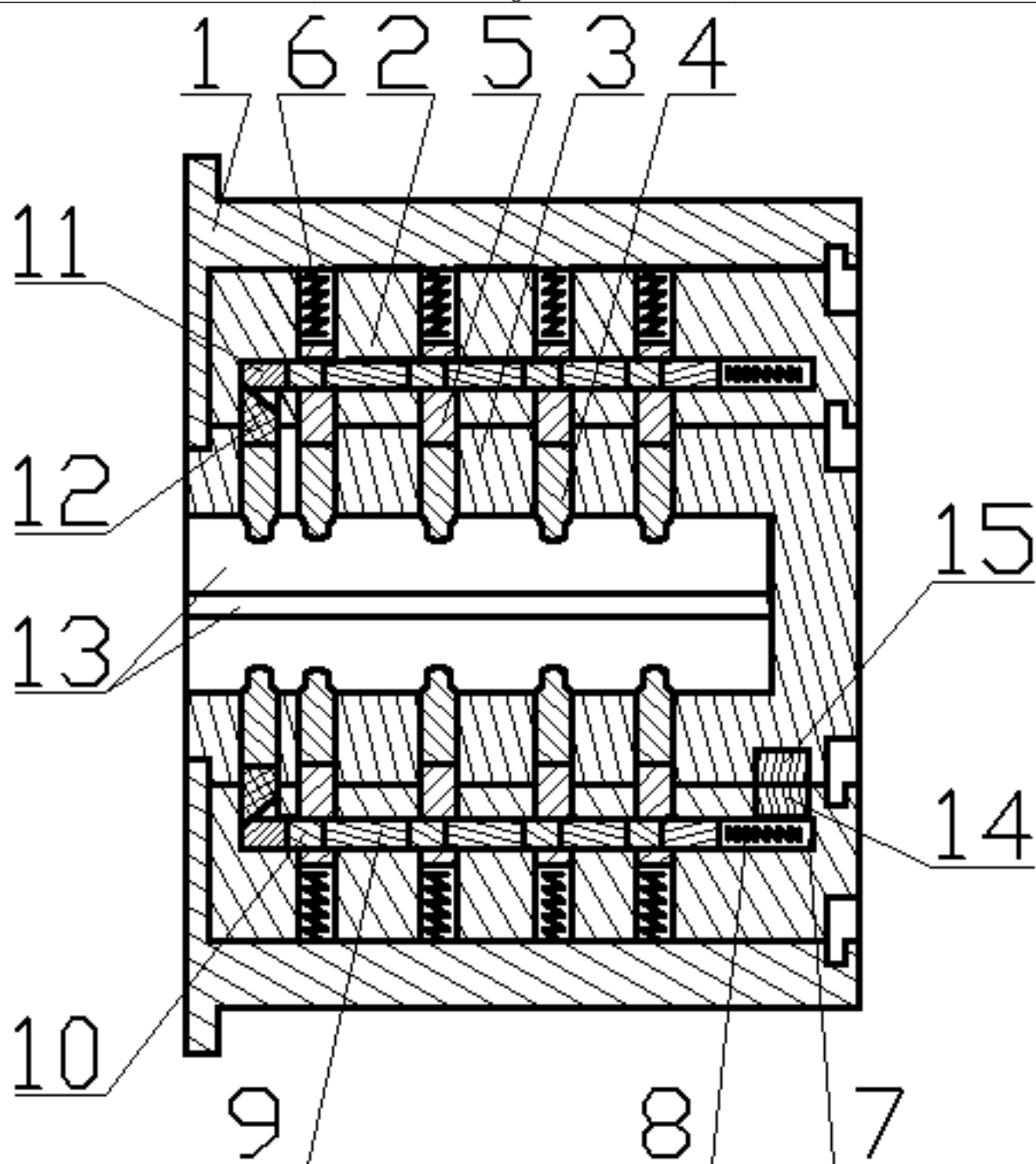
Family 72/100 - FAMPAT - ©Questel

Title

(CN104033032)

Interlocking-type alarming anti-theft **lock**

Images

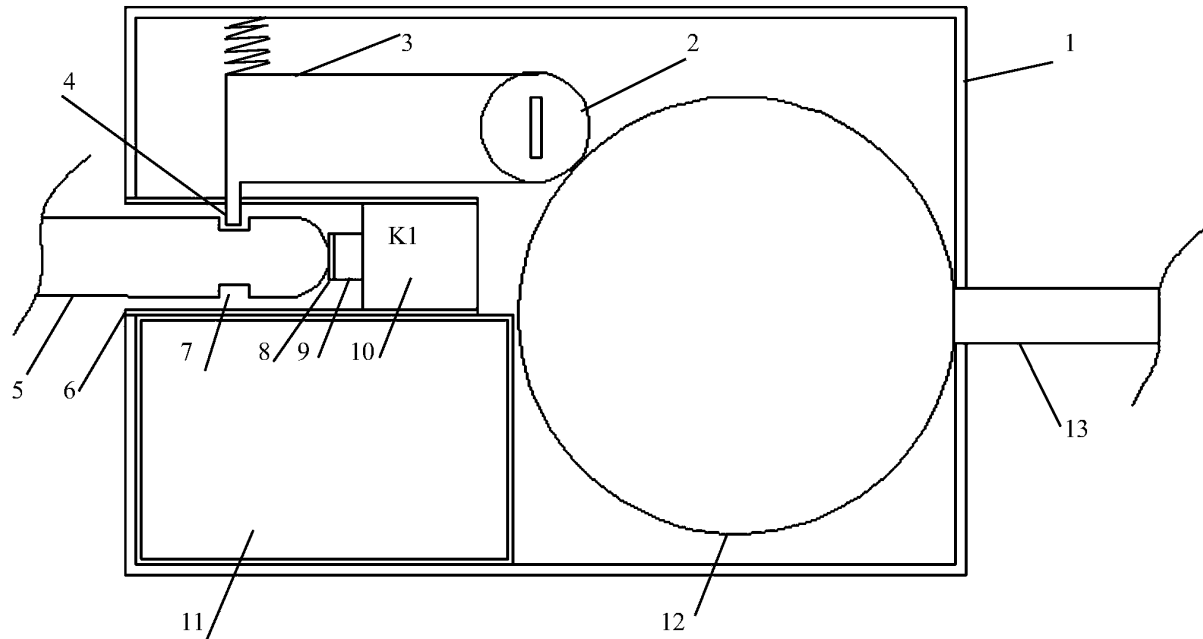


Abstract

(CN104033032)

The invention discloses an interlocking-type alarming anti-theft **lock**. A **lock** body is arranged in a fixing shell of the anti-theft **lock**, a **lock cylinder** and an interlocking hole are arranged in the **lock** body, a key hole is formed in the **lock cylinder**, the **lock** body and the **lock cylinder** are provided with a locking-holding hole and a locking-stopping hole, a **lock** pillar spring, a **lock** pillar and a head pillar are arranged in the locking-holding hole, and the **lock** pillar is provided with an ejection pin hole. The interlocking hole and the ejection pin hole are connected to form a linear passage in a natural locking state, an interlocking spring, an ejection pin, a **lock** pin and an abutting pin are arranged in the linear passage, and the linear passage is perpendicularly communicated with the locking-holding hole and communicated with the locking-stopping hole. The rear end of the **lock cylinder** is connected with a connecting tongue piece or connected with a linkage mechanism. After the interlocking-type alarming anti-theft **lock** which is reasonable in structure and convenient to manufacture and use is used, the ejection pin and the **lock** pin can transversely **lock** the **lock** pillar, anti-theft interlocking of the anti-theft **lock** is achieved, a thief and an unlocking professional can not open an interlocking device or rotate the **lock cylinder**, and an alarm will be given, so that the anti-theft effect is good.

(CN103452389)

Antitheft alarm **lock and** production method thereof**Images****Abstract**

(CN103452389)

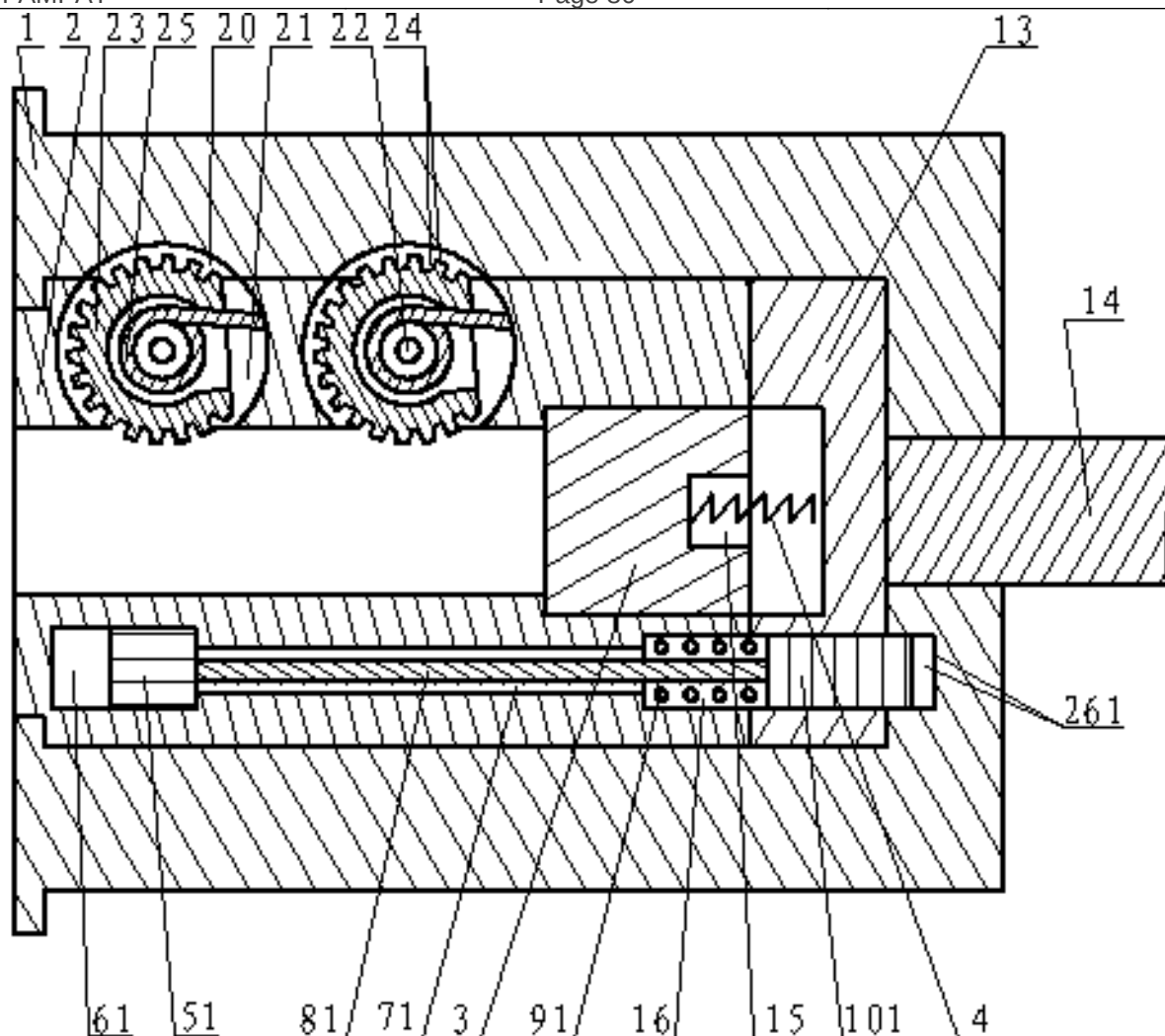
An antitheft alarm **lock** comprises a **lock** body **and** a steel cable. The **lock** body comprises a housing. A mechanical **lock** structure, a rope **mechanism and** an electronic alarm system are disposed inside the housing. The electronic alarm system includes a cable break alarm module, a vibration alarm module **and** a wireless transmitting module. The antitheft alarm **lock** is further provided with an alarm master capable of receiving signals from the wireless alarm module. An insert of the steel cable is inserted into a hole **and** ejects up a button switch inside. After the alarm system is powered, the steel cable forms a lead circuit of the cable break alarm module; meanwhile, a pin is in locking fit with a clamp groove of the end insert of the steel cable, an alarm mode starts; if vibration occurs or the steel cable is cut off, field alarming is sent out **and** wireless alarm signals are sent out; the steel cable is unlocked through a key, the insert ejects out, the **lock** body is unpowered, **and** alarming is terminated.

Family 74/100 - FAMPAT - ©Questel

Title

(CN104652970)

Magnetic-push asynchronous mechanical anti-theft **lock****Images**



Abstract

(CN104652970)

The invention discloses a magnetic-push asynchronous mechanical anti-theft **lock**. A rear **cylinder** of the magnetic-push asynchronous mechanical anti-theft **lock** is completely disconnected from a connecting body **and** a front **cylinder**, the connecting body is mounted in an invisible hole in the front **cylinder**, the front of the rear **cylinder** is provided with a connecting hole, **and** a connecting bolt is fixed at the back of the rear **cylinder** **and** passes through a through hole; a magnetic push **lock** **and** an attracting **lock** are hidden in a **lock** body **and** the **cylinder** to **lock** the rear **cylinder**, **and** the front **cylinder** is locked by a toothed pusher. The magnetic-push asynchronous mechanical anti-theft **lock** is integrated with mechanical interlocking, invisibility **and** invisible front **cylinder** **and** rear **cylinder** connection, so that a burglar cannot simultaneously open the magnetic push **lock**, the attracting **lock** **and** the toothed pusher **and** rotate the rear **cylinder**; even if a savage means is used for damaging the toothed pusher, only the front **cylinder**, rather than the rear **cylinder**, can be rotated, **and** thereby the magnetic-push asynchronous mechanical anti-theft **lock** plays the role of thoroughly preventing theft.

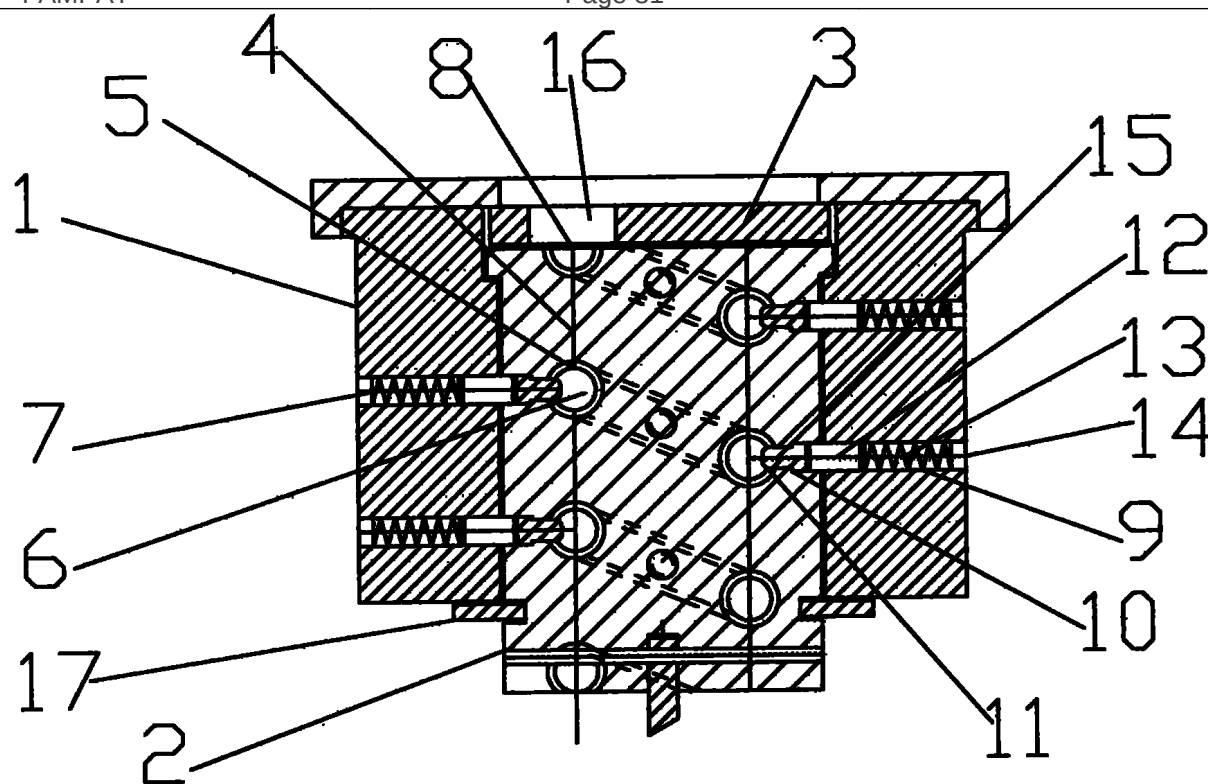
Family 75/100 - FAMPAT - ©Questel

Title

(CN101864864)

Method for manufacturing **lock** bulb with spiral keyhole

Images



Abstract

(CN101864864)

A **lock** bulb with a spiral keyhole comprises a **lock** body, a **lock cylinder**, spring mechanisms and an anti-drilling cover, wherein the **lock cylinder** is movably fit in the **lock** body, is provided with the spiral keyhole and is composed of a **lock cylinder** body and a spiral tube; the spiral tube is provided with the spiral keyhole; and the **lock** body, the **lock cylinder** body and the spiral tube are provided with the spring mechanisms. A method for manufacturing the **lock** bulb with the spiral keyhole comprises the steps of **lock cylinder** manufacturing, **lock** body manufacturing, spring mechanism manufacturing, clamp spring installing and anti-drilling cover using for sealing. A method for manufacturing the **lock cylinder** is characterized by machining the metal tubes with high melting point into the spiral tubes by spring producing equipment, placing the spiral tubes into a cavity of a die cast by metals to manufacture a **lock cylinder** long tube with the spiral hole and machining the **lock cylinder** long tube into the **lock cylinder** in required specification and size by metal machining equipment, wherein the cavity has low melting point. The method for manufacturing the **lock cylinder** is lower in production cost.

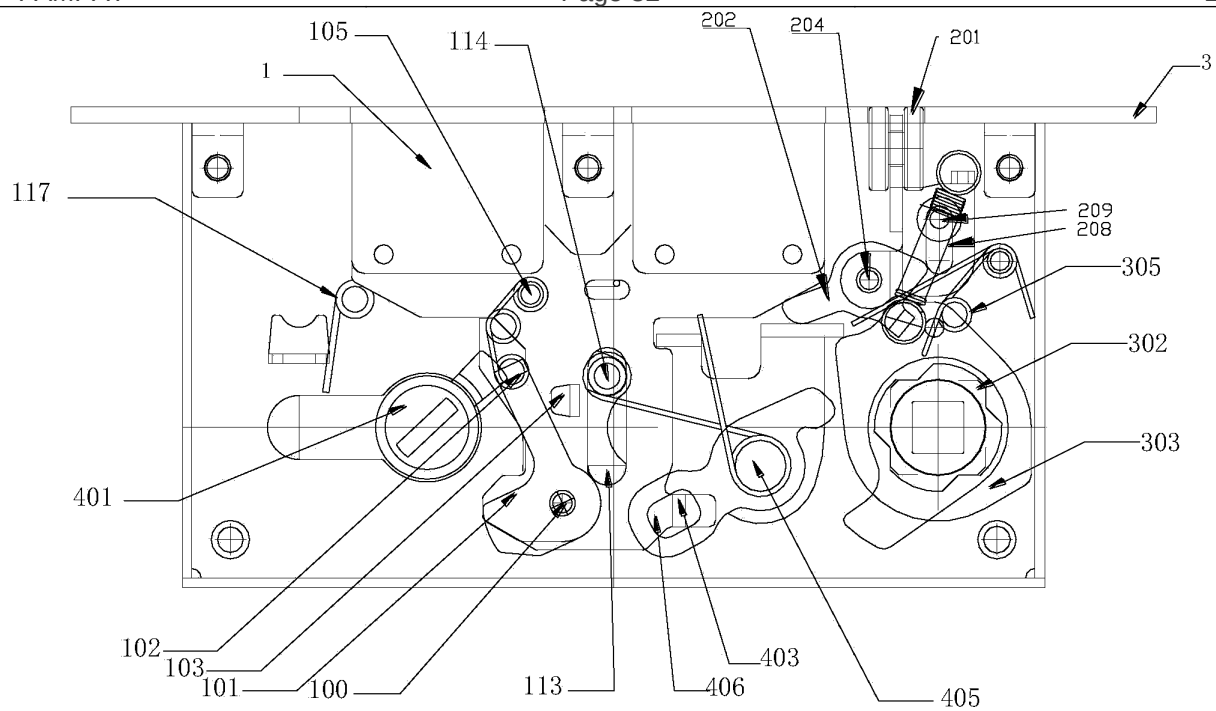
Family 76/100 - FAMPAT - ©Questel

Title

(CN203856291U)

Indoor door **lock**

Images



Abstract

(CN203856291)

The utility model relates to an indoor door **lock**, which comprises a **lock** housing, a bolt member, a driving **mechanism**, a locking **mechanism**, and an operating **mechanism**, and also comprises a **lock** opening and closing assembly and a handle opening and closing assembly, wherein a **lock** in the **lock** opening and closing assembly is of a double-**lock** structure which can be opened indoors and outdoors by inserting keys, and the double-**lock** structure is provided with a **lock cylinder** shifting piece; a **lock-out** and **lock-in** device is only shifted by the **lock cylinder** shifting piece to be unlocked, and a bolt locked by the **lock-out** and **lock-in** device is unlocked when the **lock cylinder** shifting piece rotates towards the unlocking direction; the **lock cylinder** shifting piece continues to rotate, so that a bolt plate is dragged back to the **lock** housing. The indoor door **lock** provided by the utility model has the advantages of simple and compact structure, good anti-theft effect, more convenient unlocking and lower noise.

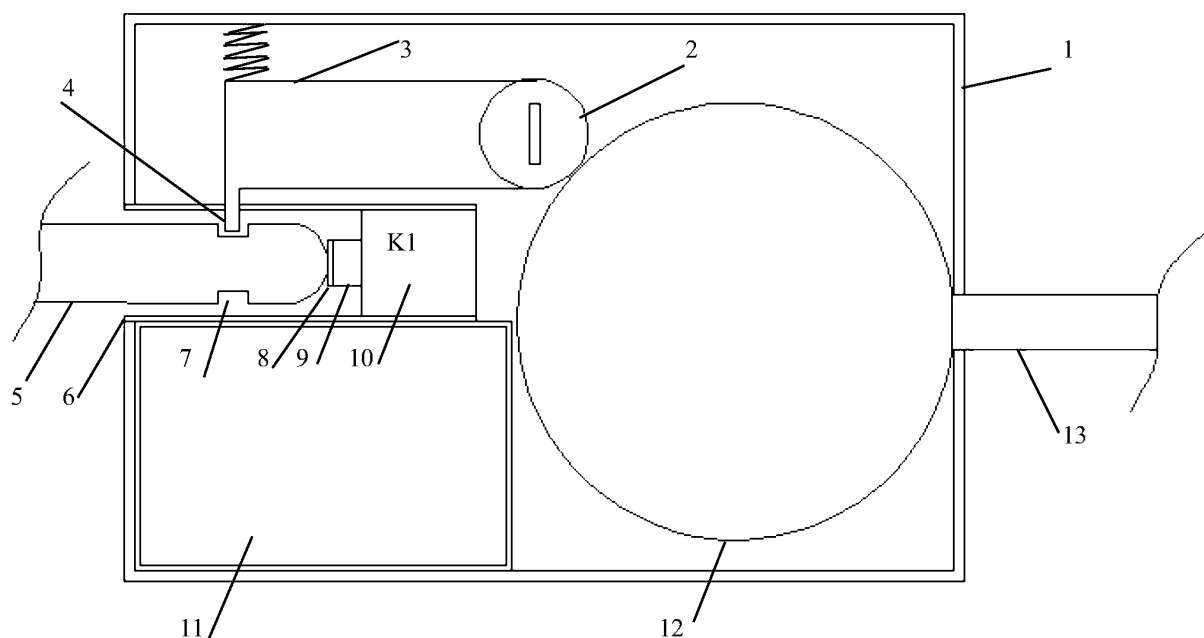
Family 77/100 - FAMPAT - ©Questel

Title

(CN203452482U)

Anti-theft alarm **lock**

Images



Abstract

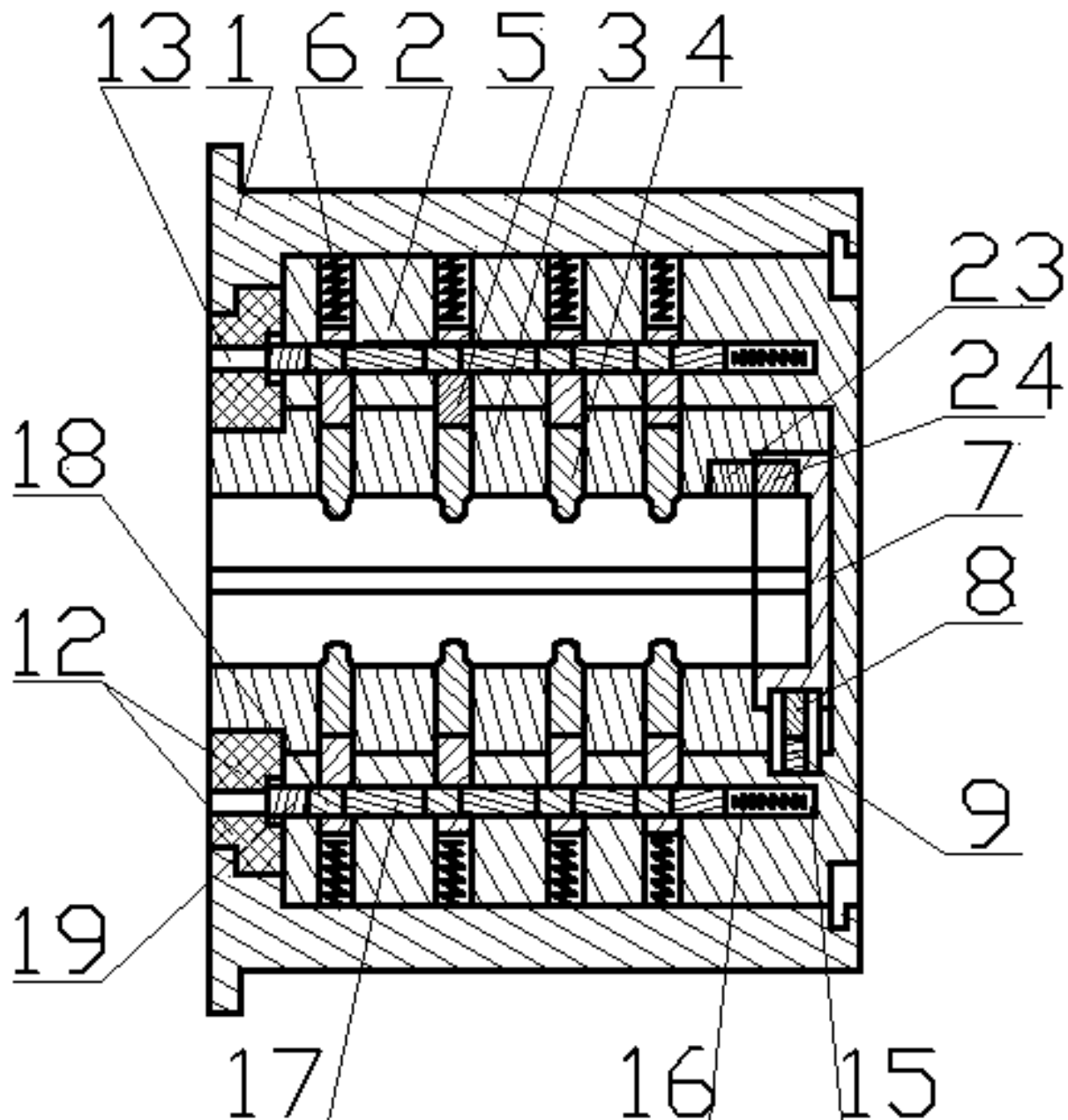
(CN203452482)

The utility model discloses an anti-theft alarm **lock** which consists of a **lock** body **and** a steel rope, wherein the **lock** body is provided with a shell; a mechanical **lock** structure, a noose **mechanism and** an electronic alarm system are arranged in the shell; the electronic alarm system comprises a broken-line alarm module, a vibration alarm module **and** a wireless emission module **and** is also provided with an alarm host capable of receiving a signal of the wireless emission module; a steel rope plug is inserted into an insertion hole to jack up an inner button switch, so that an alarm system power supply is switched on, **and** the steel rope forms a wire loop of the broken line alarm module; meanwhile, an insertion pin is matched with the plug at the end of the steel rope to be locked, so that the anti-theft alarm **lock** enters an alarm state; in case of vibration or in case that the steel rope is cut off, the anti-theft alarm **lock** sounds on-site alarm **and** sends a wireless alarm signal; if the steel rope is opened through a key, the plug pops out, **and** the **lock** body has no power, so that the alarm is relieved.

Family 78/100 - FAMPAT - ©Questel

Title

(CN104033035)

Automatic alarm interlocking double-key anti-theft **lock****Images****Abstract**

(CN104033035)

The invention discloses an automatic alarm interlocking double-key anti-theft **lock**. The front ends of a **lock** body and a **lock cylinder** of the anti-theft **lock** are provided with interlocking covers; the **lock** body is provided with an interlocking hole and a locking hole, a centre hole is formed in an ejection column, a specially-matched key hole is formed in the **lock cylinder**, a straight-line channel formed by the interlocking hole and the centre hole in a connected mode is provided with an interlocking spring, a centre, a locking needle and an abutting-against needle, a fixed contact is fixed on the **lock** body or a fixed shell, a rotary contact is fixed on a rotary connection device, the rotary connection device is fixed at the back end of the **lock cylinder**, the rotary contact, the fixed contact and an electronic telecontrol device are connected into a power supply circuit of an electromagnet, and the electromagnet is connected with a locking transverse piece. The automatic alarm interlocking double-key anti-theft **lock** is reasonable in structure and convenient to manufacture and use, the ejection column can be transversely locked through the centre and the locking needle, the **lock cylinder** and the rotary connection device are completely disconnected, the electronic telecontrol device can invisibly break off the power supply circuit, a theft and an unlocking person cannot unlock the interlocking device and rotate the rotary connection device, a circuit of the electromagnet cannot be connected, and alarming, theft prevention, interlocking and hiding of the anti-theft **lock** are achieved.

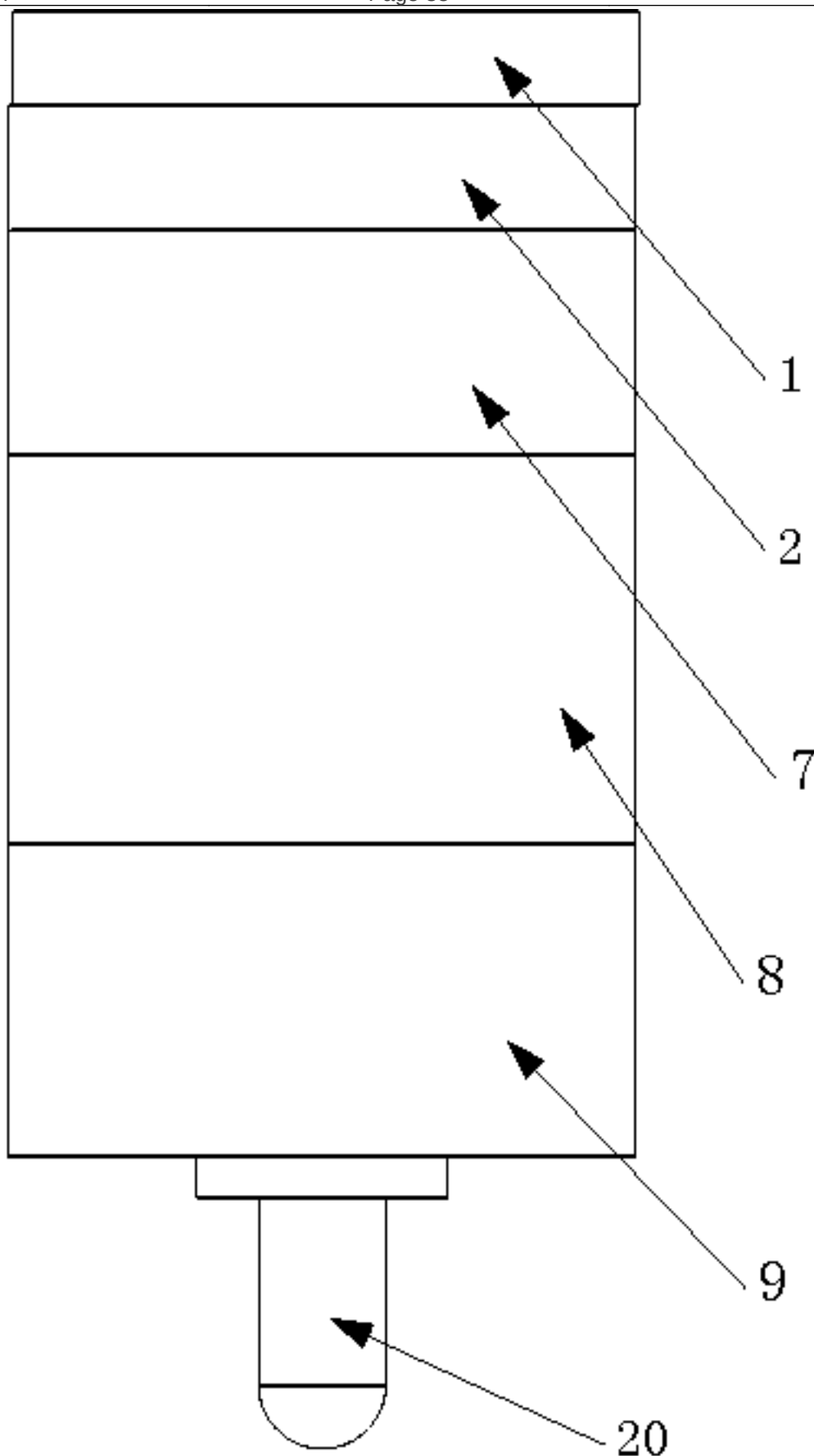
Family 79/100 - FAMPAT - ©Questel

Title

(CN204552354U)

Theftproof bicycle **lock** of debugging stage by stage

Images

**Abstract**

(CN204552354)

The utility model provides a theftproof bicycle **lock** of debugging stage by stage has solved the problem that bicycle **lock** was opened easily among the prior art include the upper cover **and** link the device outward, still include the top **lock** body, go up the **lock** body, lower **lock** body **and** bottom **lock** body, the **lock** body is gone up to the top **lock** body, **and** the center pin department of lower **lock** body **and** bottom **lock** body is equipped with **lock** core **mechanism**, **and** the **lock** body is gone up to the top **lock** body, **and** the eccentric shaft department of lower **lock** body **and** bottom **lock** body is equipped with

locating lever **mechanism**, and the upper end of locating lever **mechanism** sets up in the constant head tank of upper cover, the top **lock** body, upward the **lock** body is equipped with the password line on lower **lock** body and the bottom **lock** body outer wall, even has the lid of antithetical couplet axle between top **lock** body and the upper cover only the password line accords with when setting for the requirement, just can open the upper cover and expose the **lock** core, and this can realize first order theftproof in addition, still necessary key is correct, just can insert in the **lock** core **mechanism** for **lock** core **mechanism** and **lock** body **mechanism** break away from, realize second level theftproof prevent burglary through the two-stage, the utility model provides high theftproof effect.

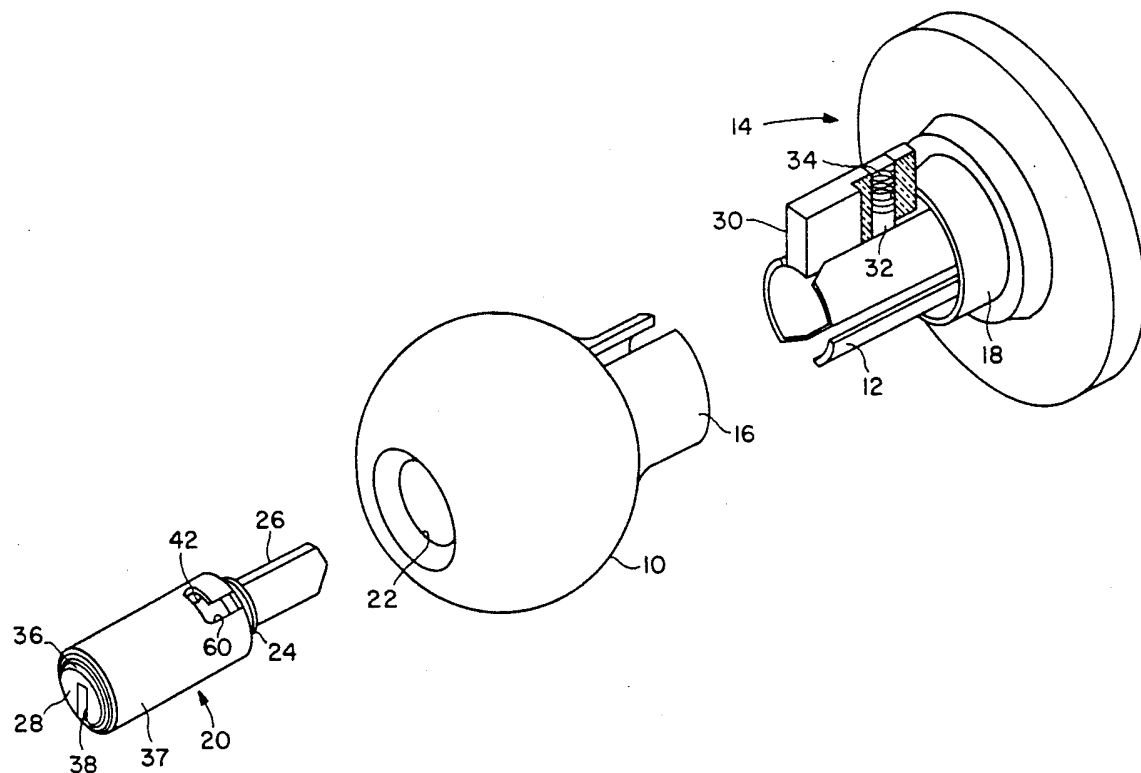
Family 80/100 - FAMPAT - ©Questel

Title

(US5010753)

Interchangeable core **lock**

Images



Abstract

(US5010753)

A **rekeyable lock** includes a false bible which houses a retainer pin, the retainer pin engaging the **lock** core. The **lock** core has a pin tumbler located to selectively engage the retainer pin so as to cause disengagement thereof from the core. The false bible is not physically attached to the core and is configured to match the operating environment.

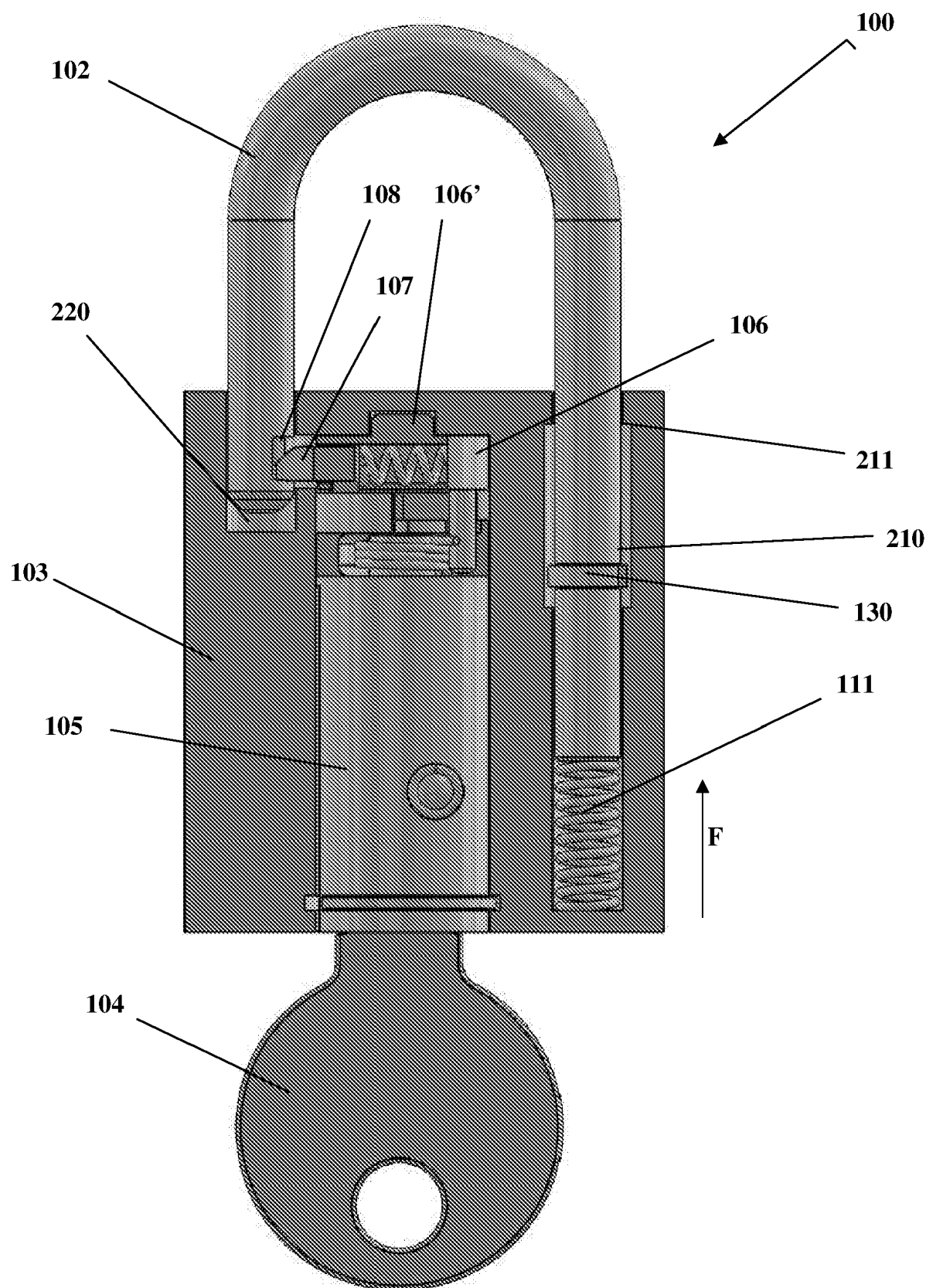
Family 81/100 - FAMPAT - ©Questel

Title

(EP3030732)

A **lock** with the opening **mechanism** integrated in the **cylinder**

Images

FIG. 1**Abstract**

(EP3030732)

The present invention concerns a padlock (100) comprising : - A case (103); - An arc (102) assembled mobile with respect to the case (103) between an open position **and** a close position; - Means (105, 150, 106, 180) to block the arc (102) in said close position **and** unblock it, allowing it to turn to the open position. In accordance with the invention, said means (105, 106, 180) comprise a cylindrical device (105) assembled in a rotatable manner in the case (103) **and** forming a cam (150), said cam being cooperating with a retaining device (106) lodged in the case (103), **and** provided with a tooth (107),

mobile, **and** configured in such a way that, through a rotation of the cam, said tooth (107) moves between an extended position, in which it engages with the arc (102), **and** a retracted position, in which it disengages from the arc (102), **and** vice-versa.

Family 82/100 - FAMPAT - ©Questel

Title

(JP2561606Y)

Sliding door **lock** for mounting of the structure

Abstract

(JP6056415)

[Object] mounting **and** attachment to a position with a sliding door can be easily adjusted for an object to provide a mounting structure of **lock and**. PURPOSE: A door stile rather take a bath of an outdoor A1 B rather take a bath of the collapsible indoor door B1 **and**, embedded in either the first side **and** the corresponding 1 **rekeyable** 2 **and**, embedded in the other second 1 **rekeyable** 2 positioned in the first side of the retrofit 2 **rekeyable** 3 **and**, second 2 **rekeyable** 3 is, a combination of the external cover exposed on a side take a bath 31 **and**, stile rather take a bath B1 is buried in the inner cover 32 **and**, the external cover 3 1 **and** the internal cover 32 bridged between the fixing screw 34 by, stile rather take a bath B1 fixed, for a sliding door **lock** 1 in the mounting structure, the securing screw 34 to, an internal cover 32 screwable with the configuration from the side, take a bath stile rather B1 rather take a bath of a side opposite to the side, the securing screw 34 operable to clamp the operating opening B2 is formed.

Family 83/100 - FAMPAT - ©Questel

Title

(CN1086573)

Manufacturing method **and** use of **lock**

Abstract

(CN1086573)

A high-security **lock** fetures use of **cylinder** with tapered round end, cooperation of radical **and** axial cylinders, **and** steel ball type bolt. Its cost is greatly reduced.

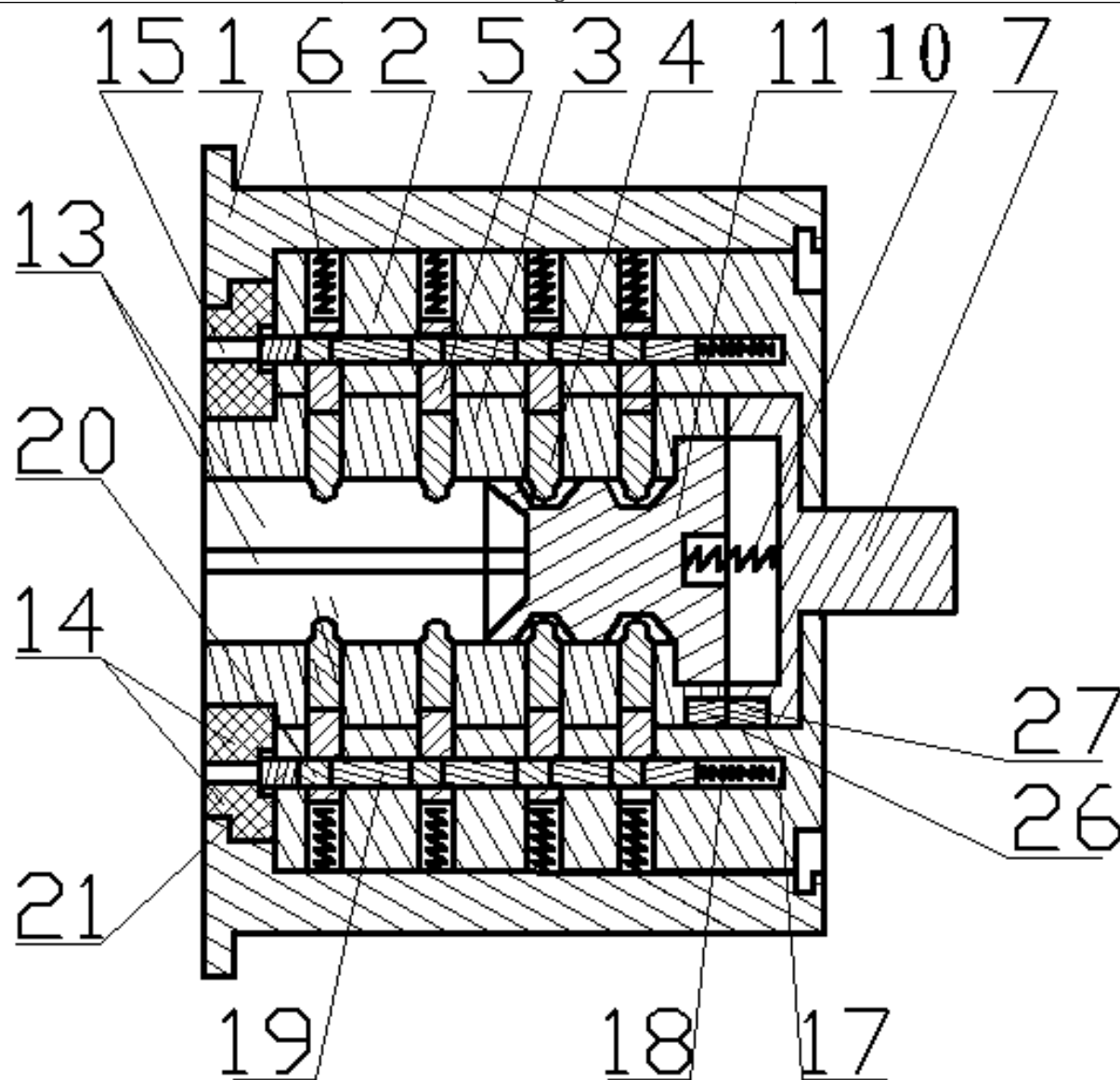
Family 84/100 - FAMPAT - ©Questel

Title

(CN104033036)

Intermittent alarm embedded key interlocking dual-key anti-theft **lock**

Images



Abstract

(CN104033036)

The invention discloses an intermittent alarm embedded key interlocking dual-key anti-theft **lock**. An interlocking cover is arranged at the front end of a **lock** body **and** the front end of a **lock cylinder**. Center holes are formed in top columns inside **lock** holding holes. Interlocking springs, centers, locking pins **and** abutting pins are arranged in interlocking holes in the **lock** body. An invisible key is hidden in the rear portion inside a special key hole, **and** a rotating connecting tongue is arranged behind the invisible key. The invisible key is disconnected with a special key, the invisible key shields some **lock** holding holes, the invisible key is disconnected with the rotating connecting tongue, the **lock cylinder** is disconnected with the rotating connecting tongue, the centers **and** the locking pins can transversely **lock** the top columns, an interlocking key is separated from the special key, **and** the anti-theft **lock** cannot be unlocked by the interlocking key or the special key independently, so that the multi-invisibility anti-theft function **and** the interlocking anti-theft function are achieved, **and** a thief **and** an unlocking master cannot unlock or rotate the **lock cylinder**. Only the **lock cylinder** part can be rotated **and** the rotating connecting tongue cannot be rotated even after the interlocking part **and** the self-locking part are damaged by brutal means, **and** an alarm circuit is closed to give an alarm.

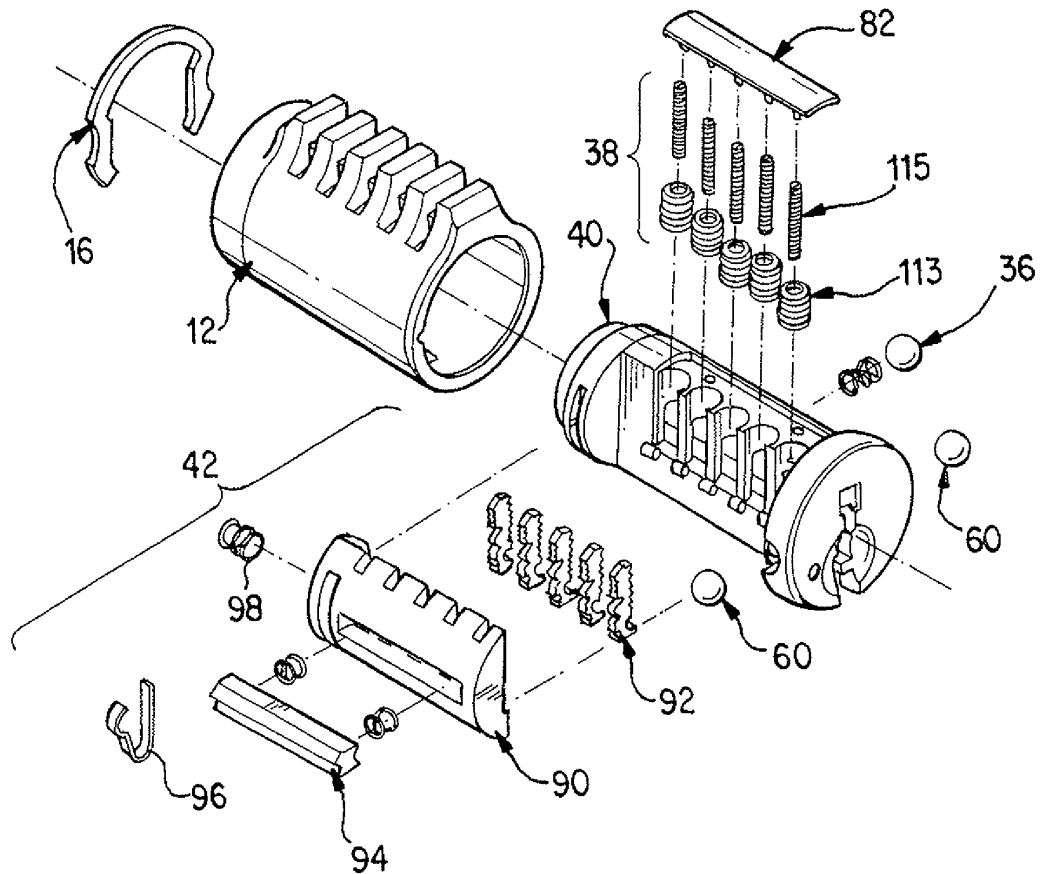
Family 85/100 - FAMPAT - ©Questel

Title

(FR2949245)

Reconfigurable latch assembly **and** method of operating this assembly

Images



Abstract

(FR2949245)

A **rekeyable lock cylinder** includes a **cylinder** body with a plug body **and** carrier sub-assembly disposed therein. The plug body includes a plurality of spring-loaded pins **and** the carrier assembly includes a plurality of racks for engaging the pins to operate the **lock cylinder**. The racks **and** pins move in a transverse direction, in response to insertion of a first valid key into the **lock cylinder**, to unlock the **lock cylinder**. The carrier moves in a longitudinal direction, in response to insertion of a tool in a tool-receiving aperture, from an operating position to a rekeying position. In the rekeying position, the racks are disengaged from the pins **and** a second valid key can replace the first valid key. Rotation of the plug body from the rekeying position with the second valid key in the **lock cylinder** obsoletes the first valid key.

(From US7234331 B2)

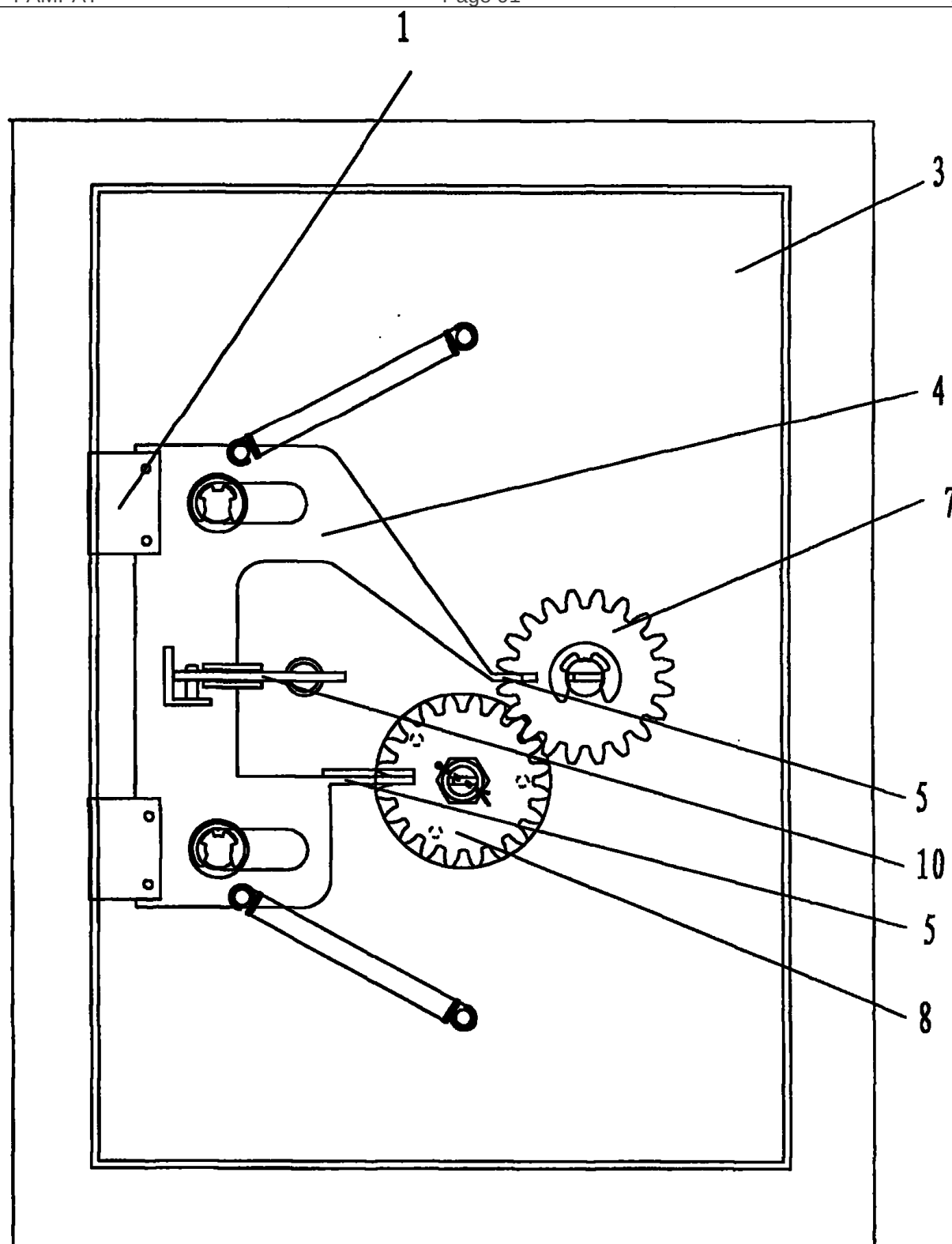
Family 86/100 - FAMPAT - ©Questel

Title

(CN101021111B)

Puzzle **lock** system

Images



Abstract

(CN101021111)

The present invention relates to a safe cipher **lock** system. Said safe cipher **lock** system includes scale disk which can be rotated, **cylinder** plug, cipher disk **mechanism**, carriage with **lock bolt** and **dog** and handle **mechanism**. The cipher disk **mechanism** includes several rotary wheels which can be coupled, on the rotary wheel a catching groove correspondent to the dog is set, the scale disk is positioned on the outer side of door, other components are positioned in the door interior. Said invention also provides the working principle of said safe cipher **lock** system and its concrete operation method.

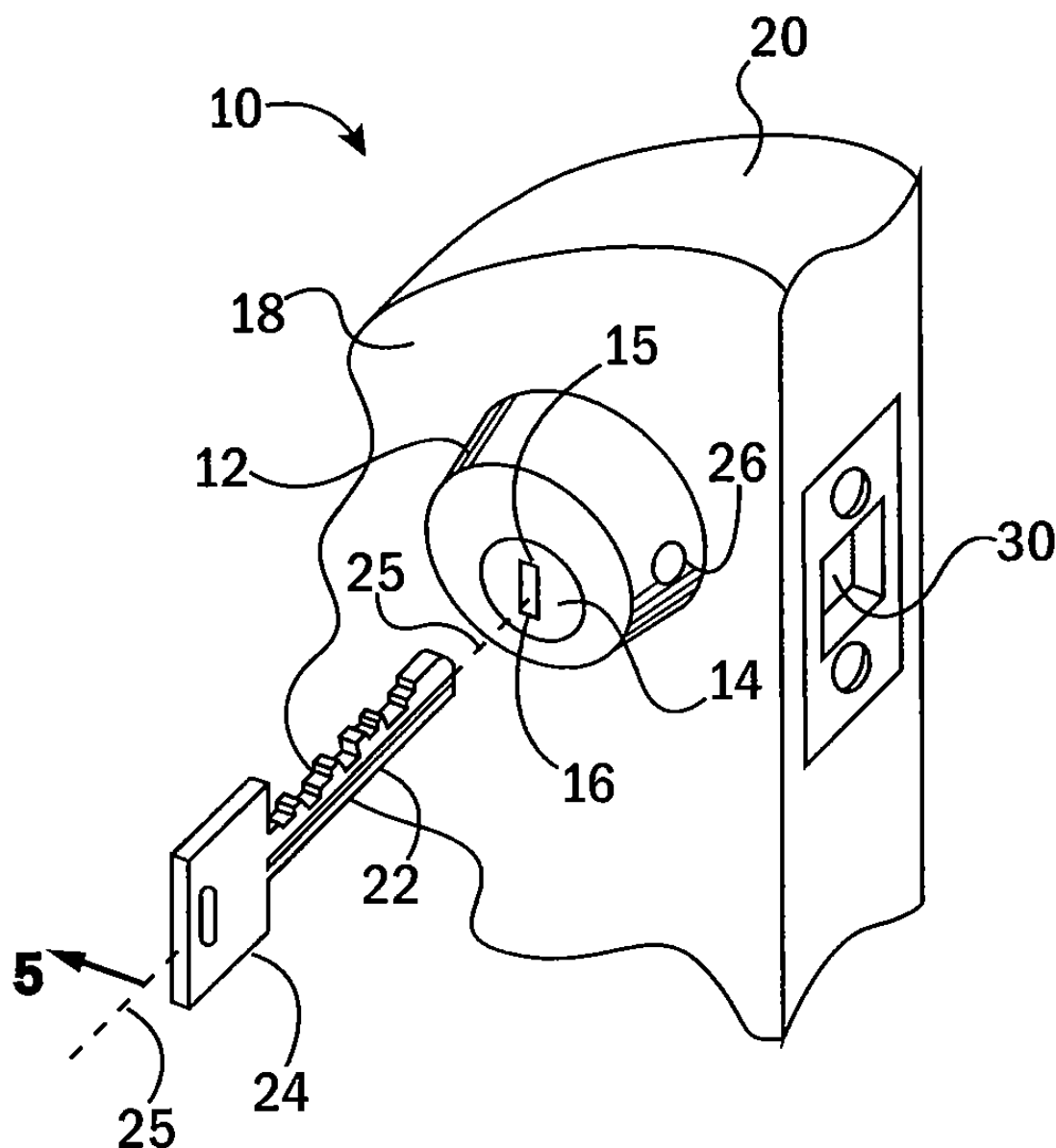
Family 87/100 - FAMPAT - ©Questel

Title

(US20130312468)

Single key, interchangeable **cylinder lock**

Images



Abstract

(US20130312468)

A re-keyable **lock** provides a **cylinder** that may be removed from the **cylinder** housing when the **cylinder** is in the unlocked state allowing the **lock** to be re-keyed with a standard key. A blocking element may be removed by a user having access to the keyhole **and** otherwise serves to retain the **cylinder** in the **cylinder** housing during the unlocked state.

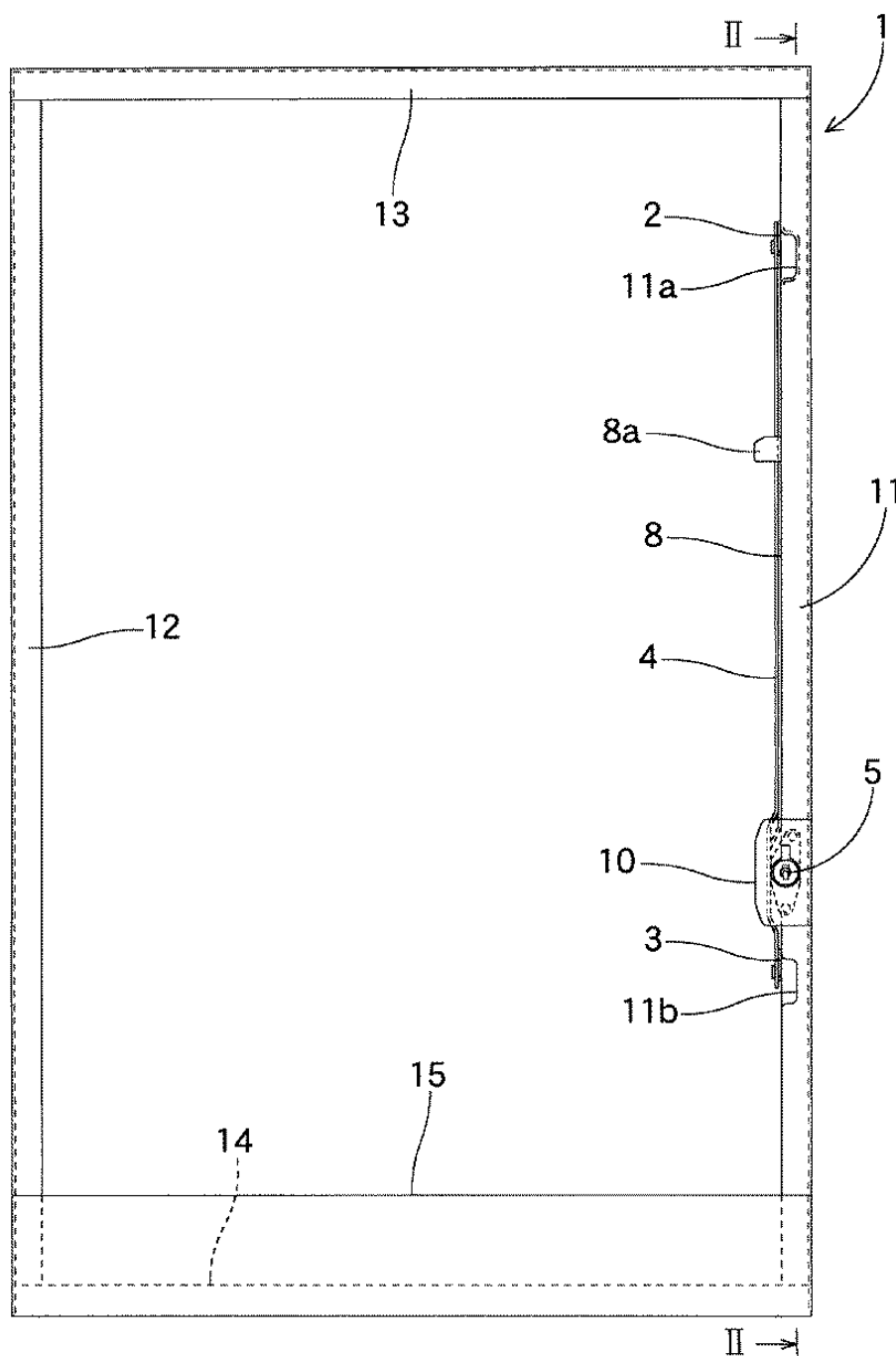
Family 88/100 - FAMPAT - ©Questel

Title

(JP2006230696)

Locking device of game machine

Images



Abstract

(JP2006230696)

PROBLEM TO BE SOLVED: To provide a locking device of a game machine which is composed of a small number of components and thereby enables the front surface frame (front door) of the game machine to be light in weight and improves the operability of opening and closing the front surface frame (front door).

SOLUTION: Hook members 2 and 3 are pivoted so as to be tilted in the direction of the front side at the upper part and lower part on the inner side of the vertical frame 11 of a main body frame 1. The upper and lower hook members 2 and 3 are connected by a connecting rod 4 and an engaging part 4a is provided on a part of the connecting rod 4. A cylinder lock 5 is attached to the vertical frame 11 by inserting a lock shaft to the inner side of the vertical frame and projecting a keyhole surface to the front side of the vertical frame. A cam plate 6 is attached to the distal end of the lock shaft of the cylinder lock 5 so as to be engaged with the engaging part 4a when being turned, and receiving metal fittings 20 and 21 to which the hook members 2 and 3 are to be locked are attached at the corresponding positions on the inner side of the front surface frame. On the front surface frame, an opening recessed part 32 into which the cylinder lock 5 advances when the front surface frame is closed is open.

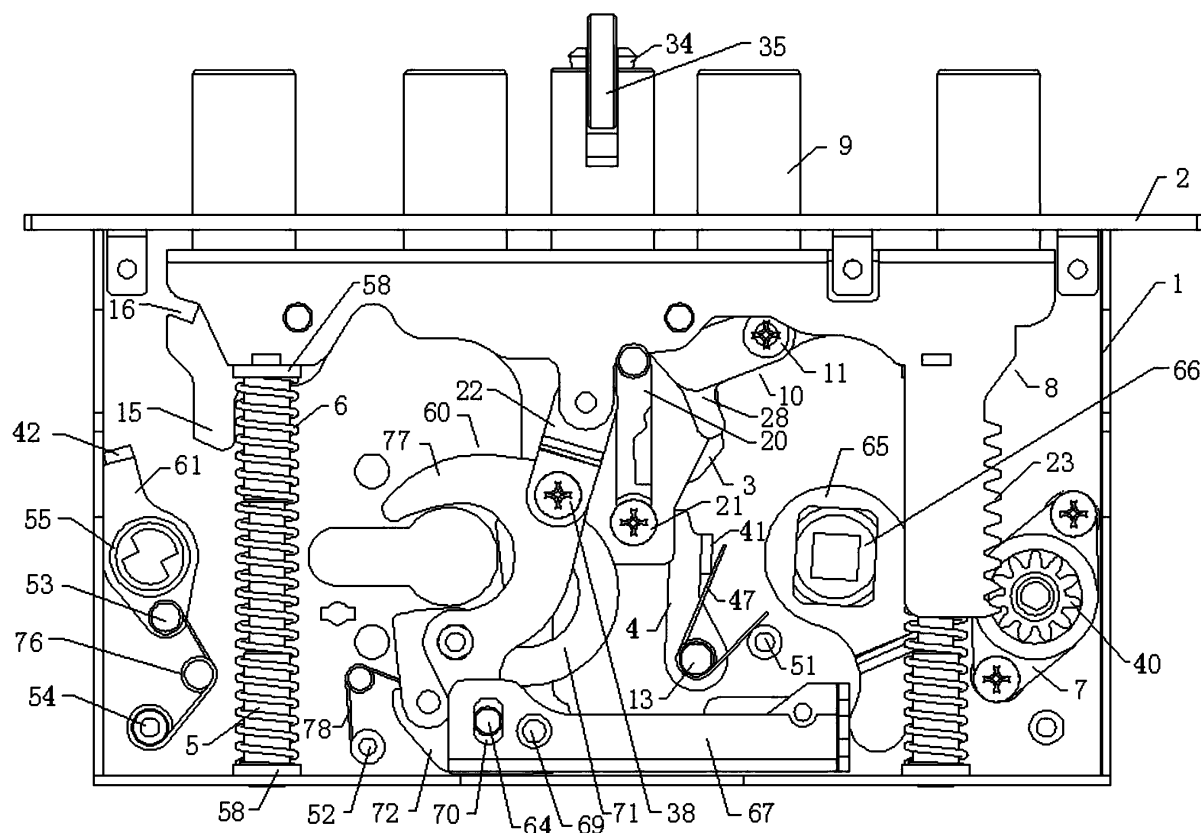
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Family 89/100 - FAMPAT - ©Questel

Title

(CN204457154U)

Passive pop-up mute automatic lock

Images**Abstract**

(CN204457154)

The utility model relates to a lock, and discloses a passive pop-up mute automatic lock which comprises a passive pop-up mute locking mechanism. The front end of a lock case is fixedly connected with a lock panel with a bolt hole, the passive pop-up mute locking mechanism comprises a main latch component, a first locking plate, a second locking plate, a spring shaft, a power spring, a roller component and a one-way damping wheel, the main latch component is matched with the lock panel, the first locking plate and the second locking plate are hinged to the lock case, the power spring sleeves the spring shaft, the one-way damping wheel is arranged on the lock case, one end of the spring shaft is connected with the main latch component, and the other end of the spring shaft is connected with the lock case. When in locking, the passive pop-up mute automatic lock is low in noise, locked at a uniform speed, long in service life without damaging a door frame, unlocked by a cam cylinder, fine in universality, fine in safety, simple in structure, small in size, low in cost and fine in use stability, the lock is better in universality as overall mounting size meets the requirements of most door frames, and the lock has anti-theft and anti-pick functions.

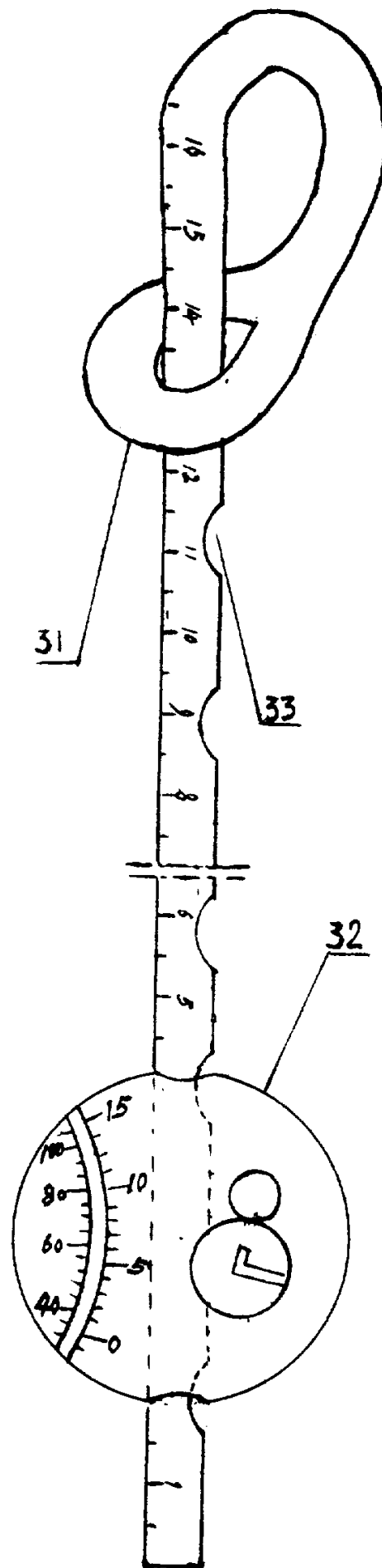
Family 90/100 - FAMPAT - ©Questel

Title

(CN1074969)

Method for mfg. lock and use thereof

Images



Abstract

(CN1074969)

The invention relates to improvement on the structure, function and manufacture of spring lock to make it being easily machined, more safe, convenient to use and low cost. The related contents include punched combined core, clip spring, integrated spring-cylinder and non-spring lock body, gear-rack driven bolt, soft steel wire cable lock ring, improved key and various new-type locks.

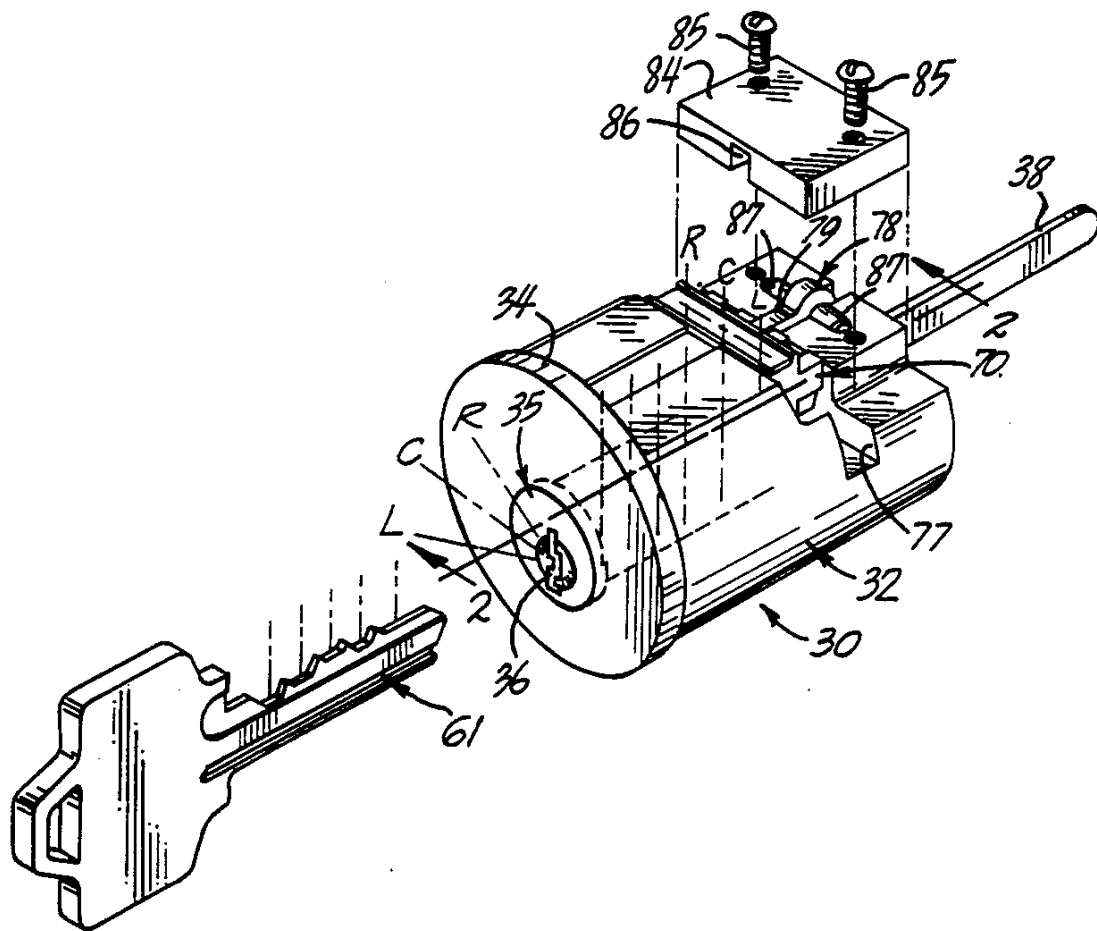
Family 91/100 - FAMPAT - ©Questel

Title

(US4912953)

Re-keyable cylinder lock

Images



Abstract

(US4912953)

A **cylinder lock** is adapted to be re-keyed by a change key which, as an incident to turning a plug in a **cylinder**, shifts a shuttle transversely of the **cylinder**. The shuttle carries three sets of drive **and** master pins which may be selectively brought into active position relative to the plug by shifting the shuttle transversely.

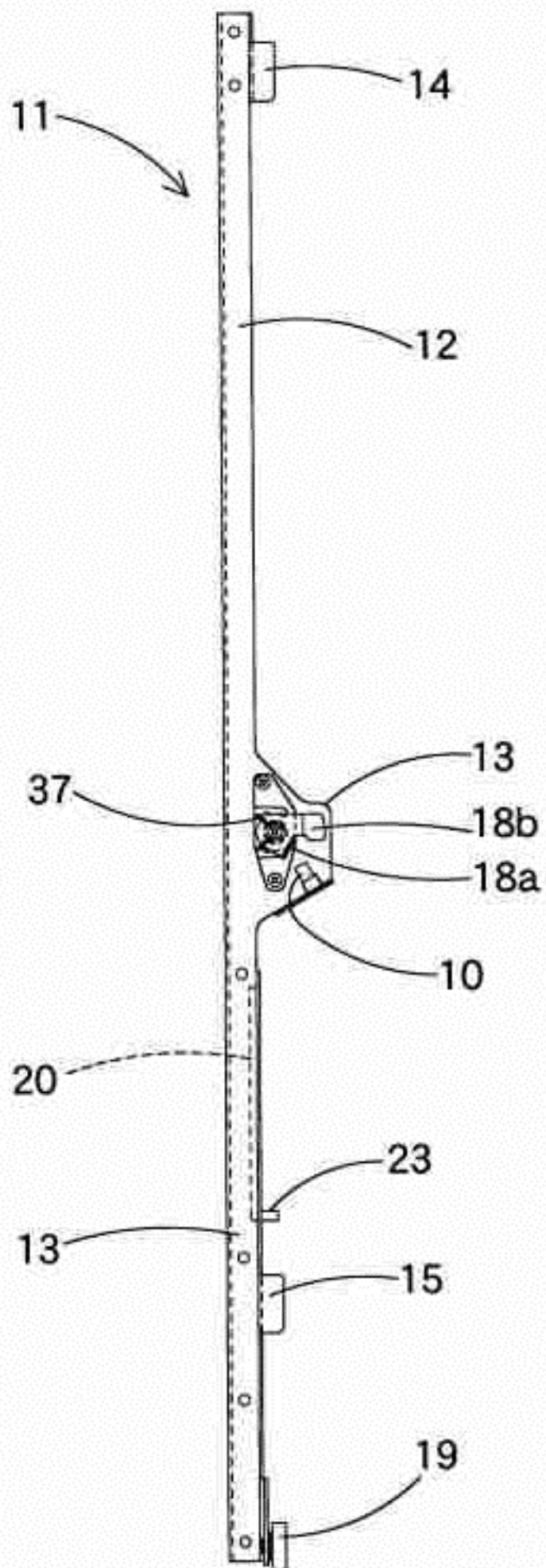
Family 92/100 - FAMPAT - ©Questel

Title

(JP2005021604)

Locking device of game machine

Images



(JP2005021604)

PROBLEM TO BE SOLVED: To provide a locking device of a game machine capable of automatically returning a key in its original reference position after rotating the key inserted into a **cylinder lock** for unlocking.

SOLUTION: A clasp member unit 1 is attached to a case 28 of the game machine **and** a **cylinder lock** unit 11 having a **cylinder lock** 17 is attached to a front door 30. Hook members 4 **and** 5 are tiltably pivoted to the upper part **and** the lower part of a base frame 2 of the clasp member unit 11, the upper/lower hook members 4 **and** 5 are connected by a connecting rod 6 disposed slidably along the base frame 2, **and** the connecting rod 6 is provided with an engagement part. The **cylinder lock** 17 is attached to an attachment plate 13 of the base frame 12 of the **cylinder** unit 11 with its **lock** shaft 17c inserted in the inside, **and** the engagement member 18 is fixed to the **lock** shaft 17c. The engagement member 18 is provided with an engagement projection 18a engaged with the engagement part of the connecting rod 6 when closing the front door **and** a spring member 37 energizing the **lock** shaft 17c to return to the insertion position of the key is disposed adjacent to the tip of the **lock** shaft 17c of the **cylinder lock** 17.

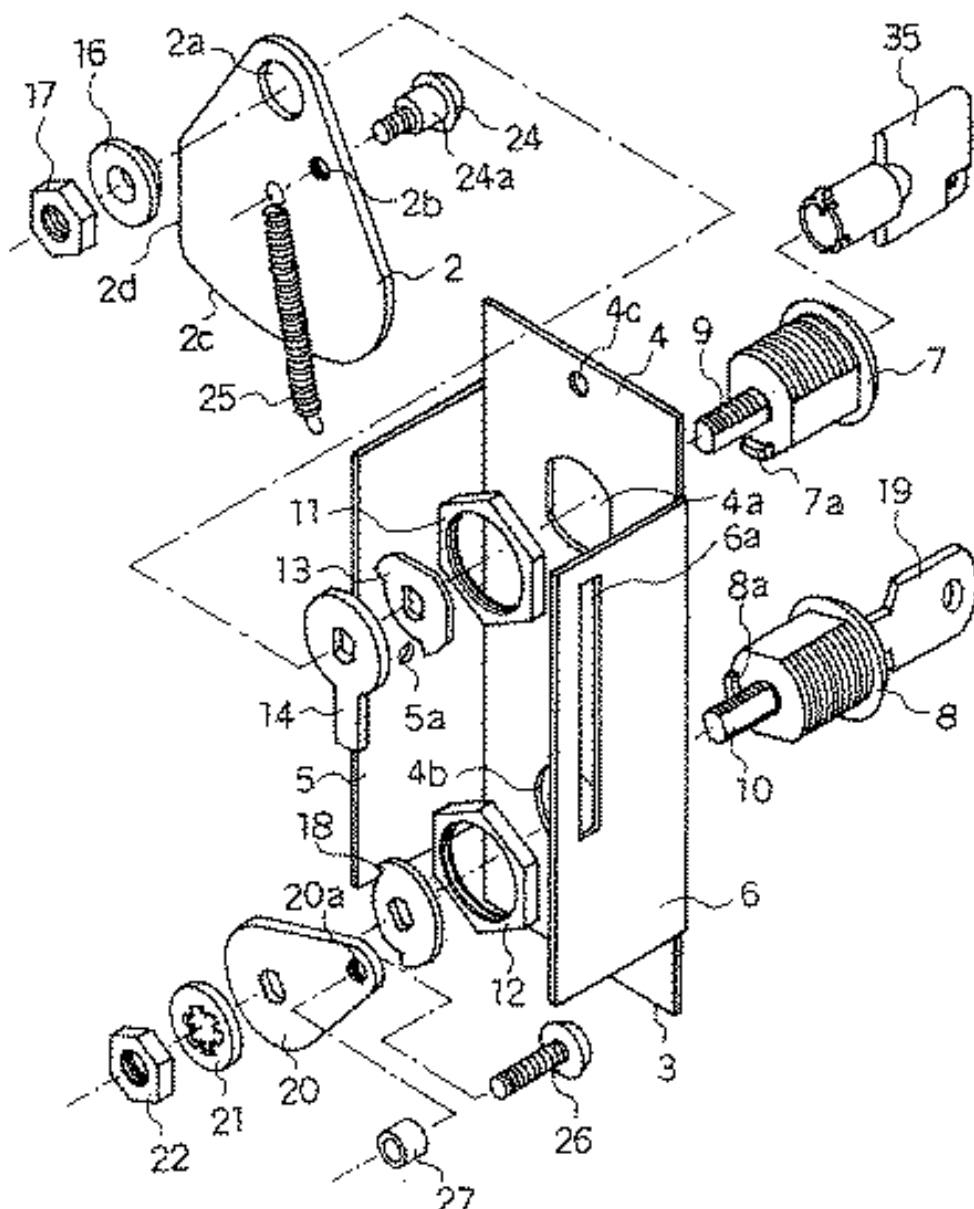
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Family 93/100 - FAMPAT - ©Questel

Title

(JP2004245015)

Locking apparatus for door

Images

Abstract

(JP2004245015)

PROBLEM TO BE SOLVED: To provide a locking apparatus for doors which simply operates in such a way as to perform locking by a latch only by operating a locking key **and** unlock the latch only by operating an unlocking key, has the unlocking key which can not be taken away by tampering or an illicit purpose, has a small number of parts **and** a simple structure, hardly fails, is solid, compact, easily assembled, **and** manufactured at low costs.

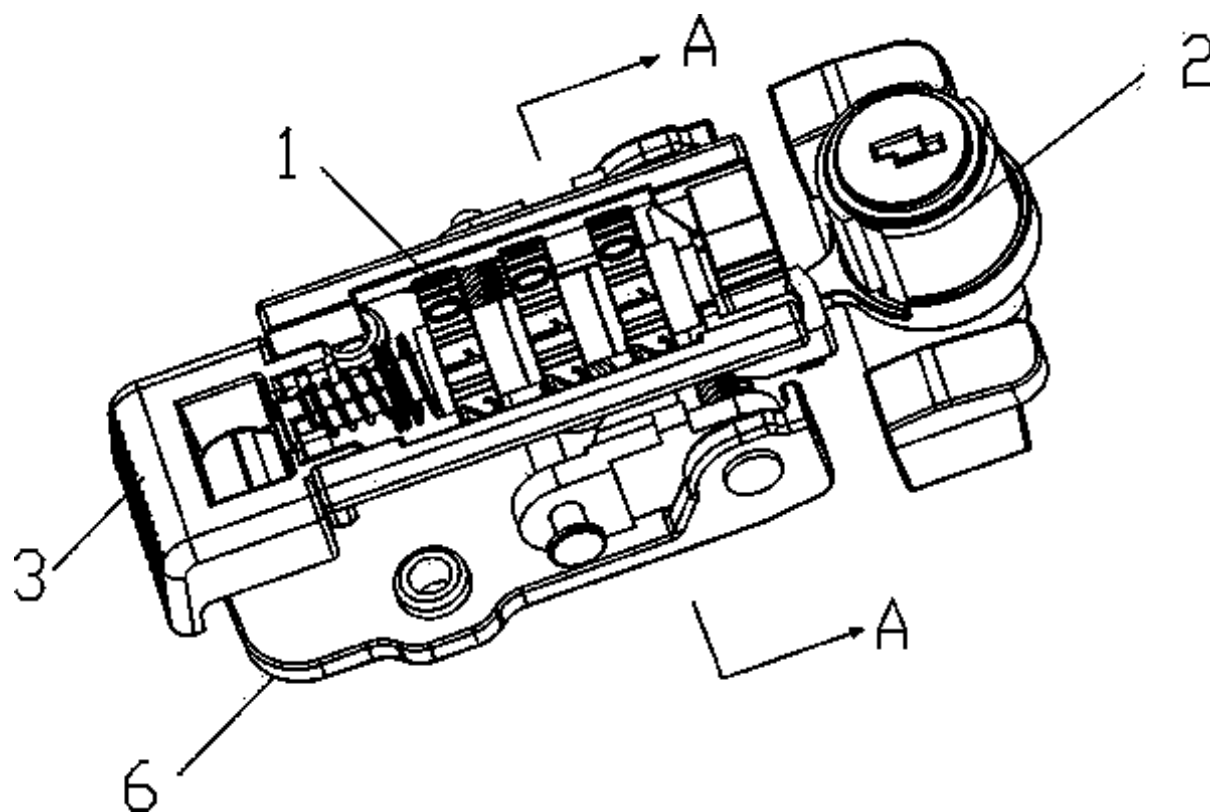
SOLUTION: A first **cylinder lock** 7 for locking **and** a second **cylinder lock** 8 for unlocking are mounted to a front plate part of a base frame. The first **cylinder lock** rotatably supports both an arm 14 for contact integrally rotated with the rotation of its **lock** shaft **and** the latch 2 provided with a protrusion part to come into contact with the arm for contact. The second **cylinder lock** is a **lock** from which the unlocking key can not be extracted when the latch is in an unlocking position, **and** a cam 20 integrally rotated with its **lock** shaft is mounted to the **lock** shaft. A cam contact edge is formed in the latch. The cam is provided with a contact part to come into contact with the cam contact edge. A coil spring 25 is fastened in the latch **and** the cam.

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Family 94/100 - FAMPAT - ©Questel

Title

(CN104328951)

Password **lock** of oil grease container with improved unlocking **mechanism****Images****Abstract**

(CN104328951)

The invention relates to the field of anti-theft locks of oil grease containers, in particular to a password **lock** of the oil grease container with an improved unlocking **mechanism**. The password **lock** comprises a first **lock** core, a second **lock** core, a push button, a **lock** core frame, a mounting part **and** a front casing, wherein the mounting part is fixedly arranged on a box body, the **lock** core frame is connected with the mounting part, the first **lock** core **and** the second **lock** core are fixedly arranged on the **lock** core frame, the front casing is connected with the **lock** core frame, the first **lock** core **and** the second **lock** core penetrate through the front casing **and** are exposed out of the front casing, the first **lock** core comprises a plurality of number wheels, a plurality of number wheel inner sleeves **and** a shaft, concave teeth of each number wheel are matched with convex teeth of each inner sleeve to form a rotary linkage **mechanism**, the shaft penetrates through the center of each

inner sleeve, the shaft **and** each inner sleeve are respectively provided with a shaft convex part **and** an inner sleeve concave part which are matched, the push button is connected with the shaft to form an axial linkage **mechanism**, the second **lock** core is connected with the shaft through a brake part, the mounting part is provided with a buckle, **and** the buckle is clamped together with the push button. The password **lock** has the advantages that the safety property is improved, the structure is simple, the convenience **and** practicality are realized, the appearance is concise **and** elegant, the weight is light, **and** the durability is realized.

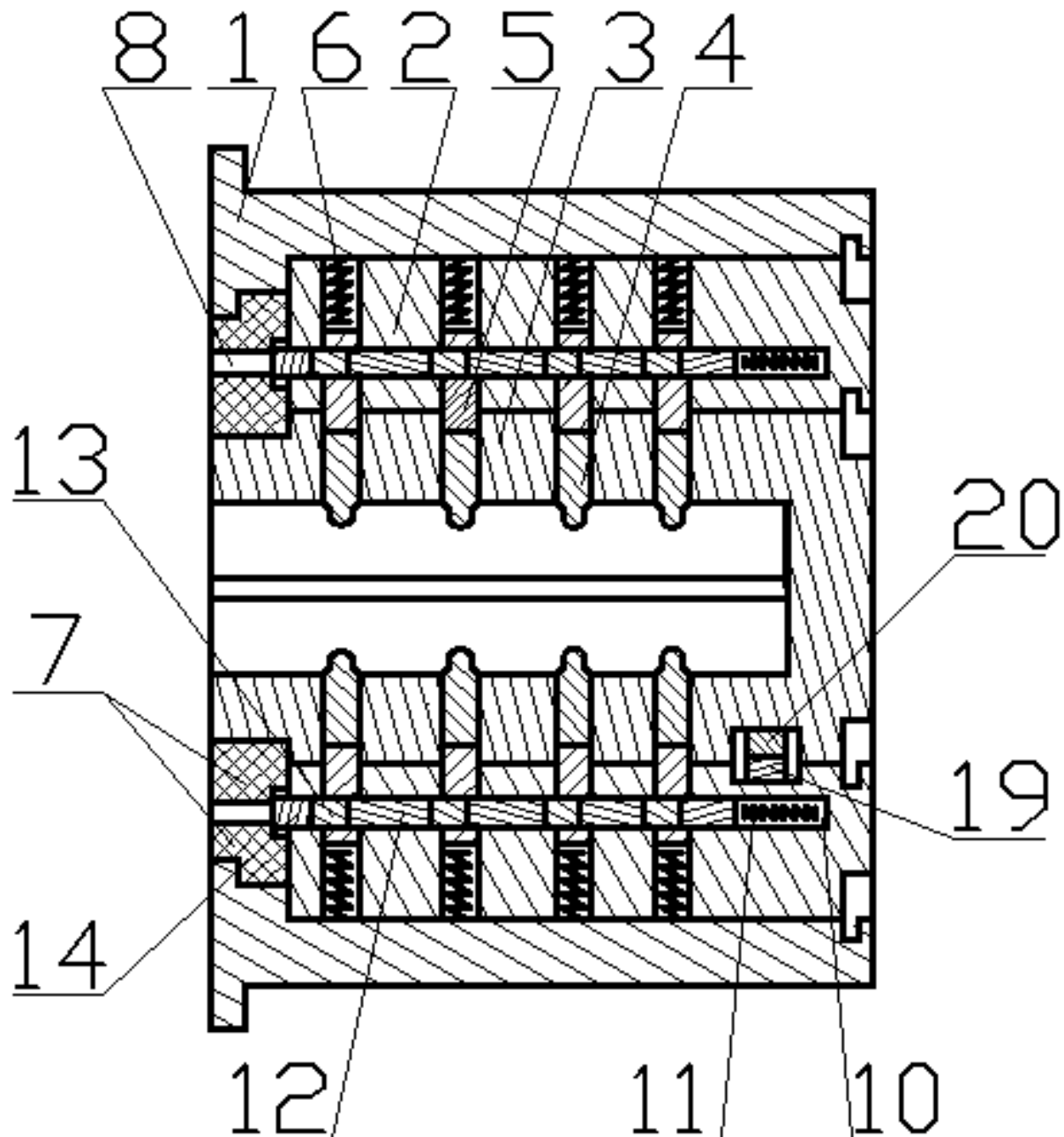
Family 95/100 - FAMPAT - ©Questel

Title

(CN104088530)

Double-key electric interlocking anti-theft **lock**

Images



Abstract

(CN104088530)

The invention discloses a double-key electric interlocking anti-theft **lock**. A **lock** body is arranged in a fixed housing, a fixed contact is fixed on the **lock** body or the fixed housing, **and** a rotating contact is fixed on a **lock** core. The **lock** core is arranged in the **lock** body, interlocking covers are arranged in the front of the **lock** body **and** the **lock** core, an interlocking key hole **and** a butting pin hole are formed in the interlocking covers, a **lock** pin hole is formed in an ejector rod, an

interlocking hole is formed in the **lock** body, an interlocking spring, an ejector pin, a **lock** pin **and** a butting pin are arranged in a channel of the interlocking hole **and** an ejector pin hole, the rear end part of the **lock** core is connected with a linkage **mechanism**, **and** the interlocking key hole is used for opening an interlocking device; the rotating contact **and** the fixed contact are connected with a power supply circuit of an electromagnet, **and** an iron core of the electromagnet is connected with a **lock** bar; the ejector pin **and** the **lock** pin can transversely **lock** the ejector rod, an interlocking key is separated from a specially matched key, **and** the anti-theft concealment **and** interlocking of the anti-theft **lock** are realized, so that a theft or an omnipotent key cannot open the interlocking device **and** the rotating **lock** core or connect the circuit of the electromagnet.

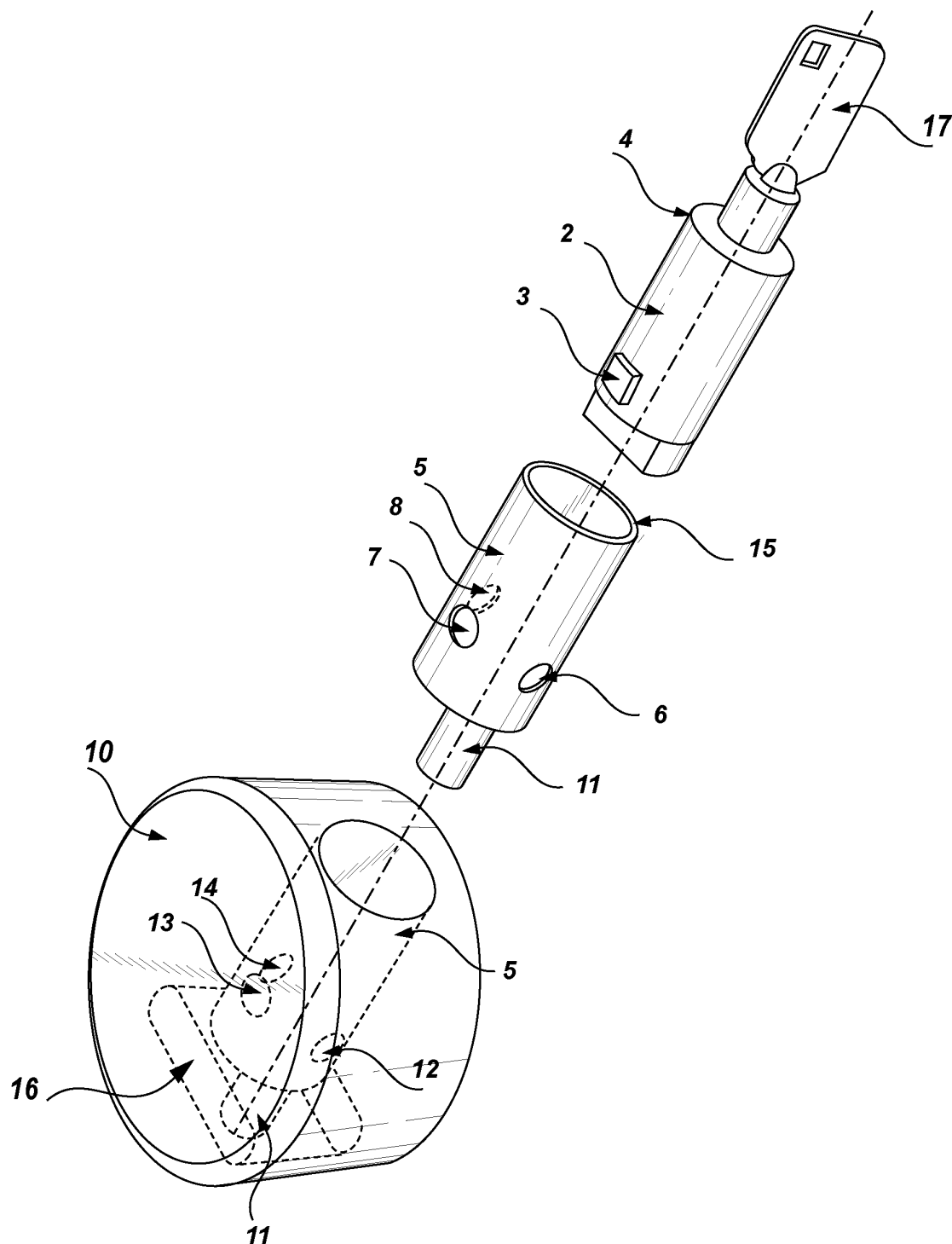
Family 96/100 - FAMPAT - ©Questel

Title

(US7918111)

Lock device that enable users to choose the security level of the **lock**

Images



Abstract

(US20090133450)

A **lock** device includes a universal spacer, for receiving a **lock cylinder**, and a plurality of spacer holes where one of the holes is positioned to receive a **lock** bolt of the **lock cylinder**. A padlock body houses the universal spacer. A plurality of padlock body holes extends from an interior of a universal spacer hole into the padlock body. The padlock body holes are positioned to match the spacer holes and one of the padlock body holes receives the **lock** bolt when the **lock cylinder** is in a locked position. A padlock bolt secures the universal spacer, **lock cylinder** and padlock body in place when the **lock cylinder** is in the locked position. When the **lock cylinder** is in the unlocked position, the universal spacer with the **lock cylinder** can be removed from the universal spacer hole and the **lock cylinder** can be replaced with another **lock cylinder**.

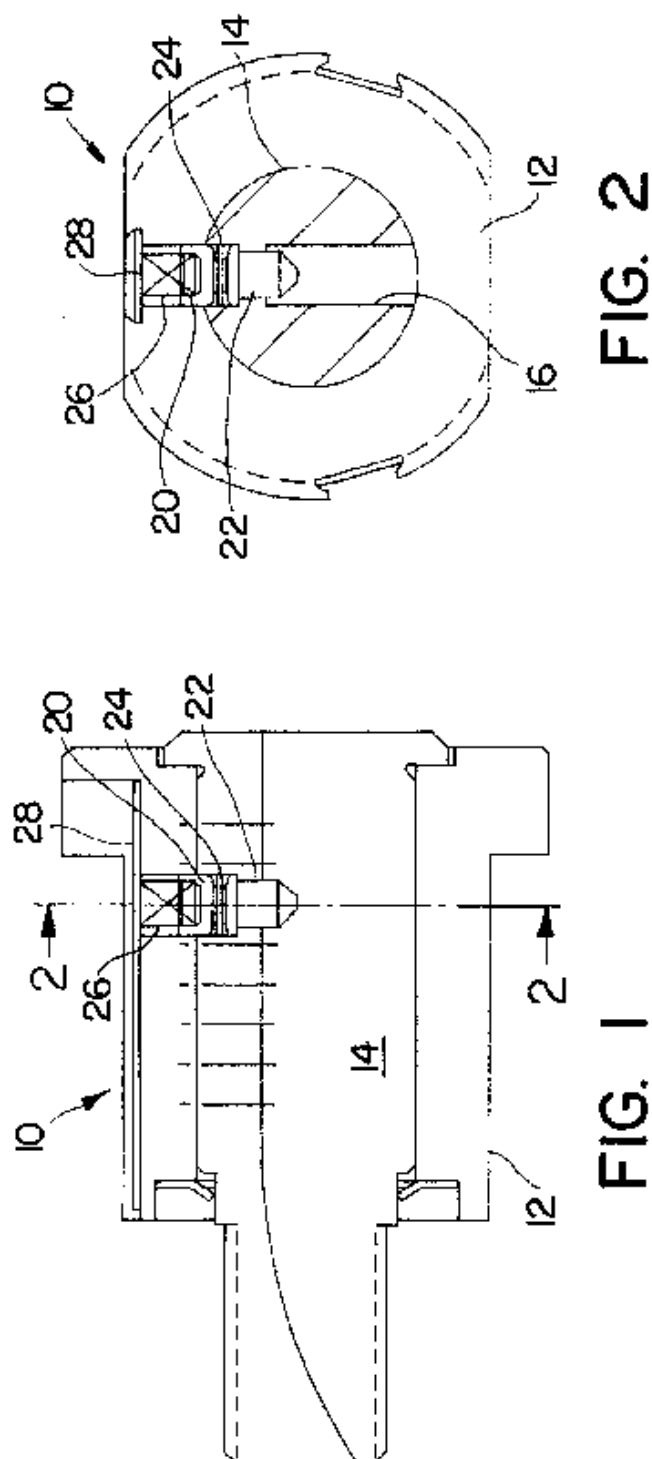
Family 97/100 - FAMPAT - ©Questel

Title

(US5718136)

Lost key **lock-out cylinder**

Images

**Abstract**

(US5718136)

A **rekeyable** lock includes at least one chamber housing a tumbler pin stack having a master pin disposed between the driver pin **and** the bottom pin. The bitting of a change code key inserted in the keyway displaces the tumbler pin stack containing the master pin such that the interface between the master pin **and** the bottom pin is placed on the shear line defined by the **cylinder** shell **and** plug. Rotation of the change code key aligns a first slot on the change code key with the master pin wherein the master pin is received by the first slot. The master pin is carried with the change code key on removal of the key from the keyway. A replacement master pin disposed in the first slot is inserted into the keyway with the change code key. Rotation of the change code key aligns the replacement master pin with the drive pin. Inserting a control

slide in a second slot in the change code key biases the replacement master pin **and** drive pin wherein the interface between the control slide **and** replacement master pin is placed on the shear line. The replacement master pin is captured in the chamber upon rotation **and** removal of the change code key **and** control slide.

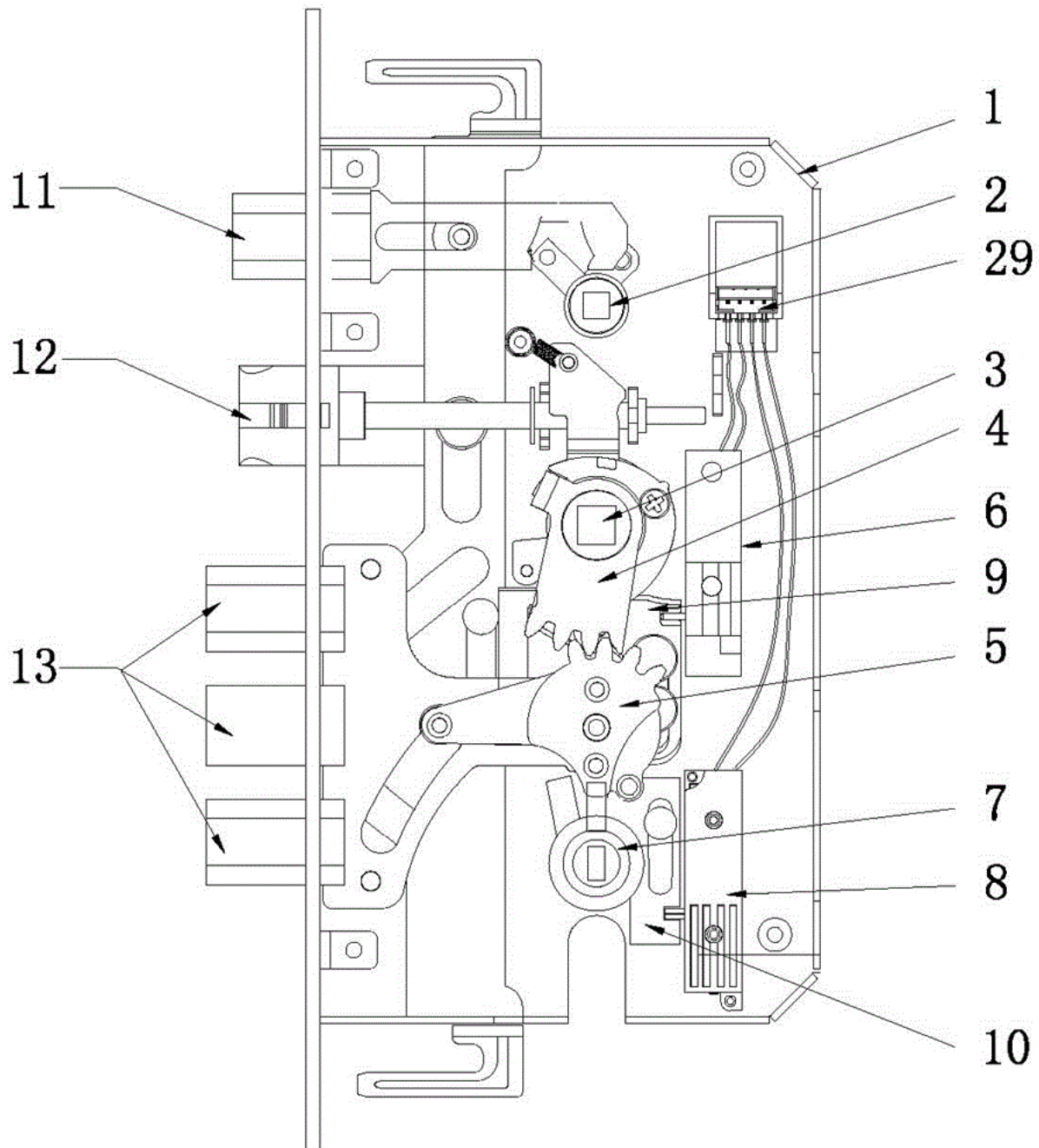
Family 98/100 - FAMPAT - ©Questel

Title

(CN104481280)

Electronic **lock** with double-motor structure

Images



Abstract

(CN104481280)

The invention relates to the technical field of an electronic door **lock**, in particular to an electronic **lock** with a double-motor structure. The electronic **lock** comprises a motor A **and** a motor B, wherein the motor A correspondingly drives a clutch **mechanism** A, the motor B correspondingly drives a clutch **mechanism** B; the power input end of the clutch **mechanism** A is connected with the motor A; the power input end of the clutch **mechanism** B is connected with the motor B; the power input end of the clutch **mechanism** A is fixedly connected with a handling rotary knob; the power input end of the clutch **mechanism** B is fixedly connected with a **lock cylinder** rotary knob; a gear linkage **mechanism** is in linkage connection with

a bolt **mechanism**; the gear linkage **mechanism** comprises an upper gear **and** a lower gear which are mutually meshed; the handling rotary knob controls the upper gear to rotate; the **lock cylinder** rotary knob controls the lower gear to rotate; the gear linkage **mechanism** drives the bolt **mechanism** to stretch. The electronic **lock** has the characteristics of being high in security performance, strong in portability, simple in structure, **and** small in malfunction possibility.

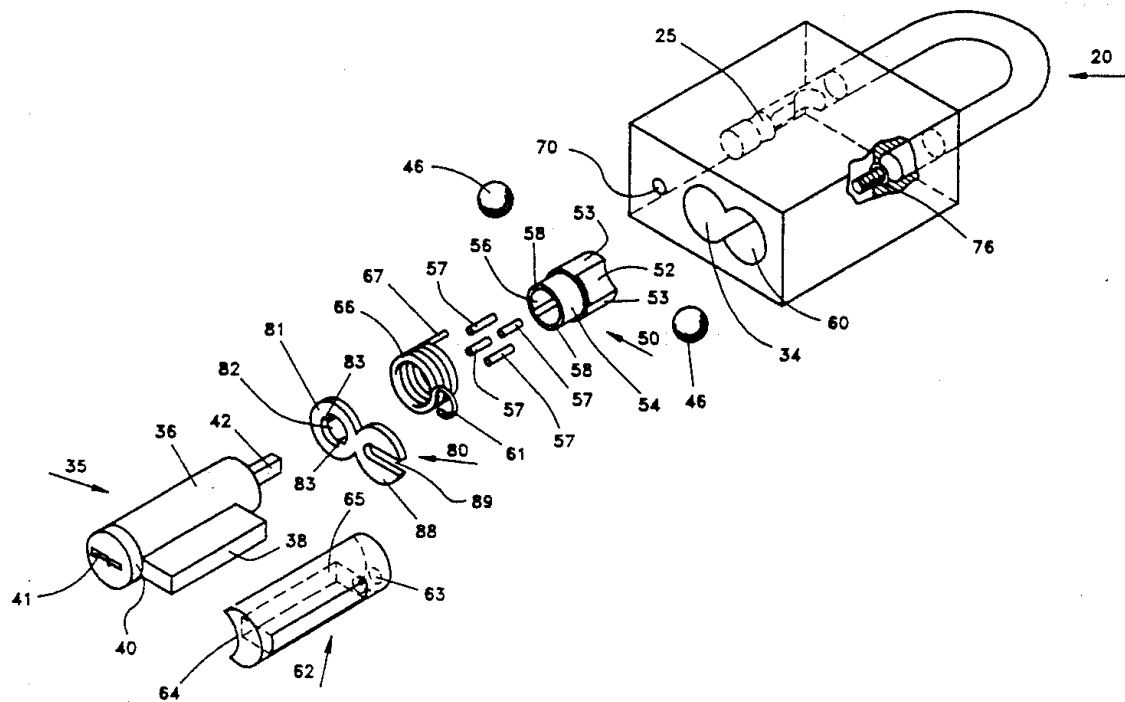
Family 99/100 - FAMPAT - ©Questel

Title

(US5174136)

Dual function padlock with removable **cylinder mechanism**

Images



Abstract

(US5174136)

A padlock with removable **cylinder mechanism** offers the user a choice of two distinct manners of operation or "functions"-- a Key Retaining function **and** a Non-Key Retaining function. This dual function capability in a single unit is achieved by a rotator bolt bored to allow placement of a pattern of pins. A series of pins, which when installed in the rotator bolt in a specified pattern, causes the function selection to be accomplished. A re-keyable padlock which accepts widely available, standard dimensioned, generic key operated **lock** cylinders allowing the keying of this padlock to be adapted to the wide range of keying systems used in locks found in residential, commercial **and** other uses as required for security **and** convenience. The use of standard dimensioned cylinders in the padlock is accomplished by a **cylinder** retainer, tailpiece stop **and** rotator bolt which adapts the generic **cylinder** to padlock use. The **cylinder** retainer, which retains the **lock cylinder** in the padlock body, is in turn held in the body by a threaded screw which is accessible through the short shackle leg opening in the body only when the shackle is in the unlocked condition **and** swung clear of its body opening. Upon removal of the threaded screw, the **cylinder** retainer **and** **lock cylinder** are removed from the body **and** the **cylinder** can be serviced or replaced.

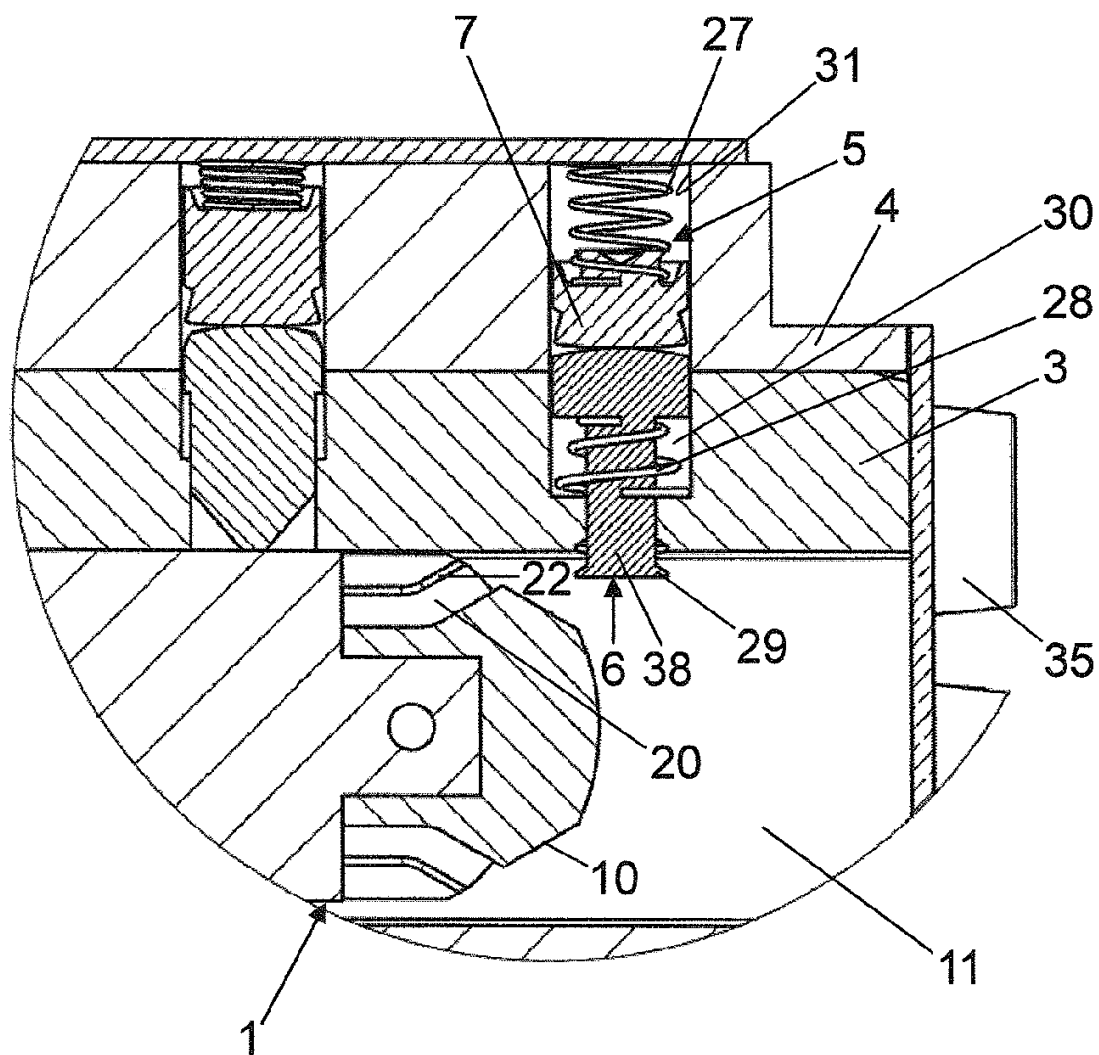
Family 100/100 - FAMPAT - ©Questel

Title

(EP2619387)

Rotating **lock cylinder and** security key

Images



Abstract

(EP2619387)

The invention relates to a rotary locking **cylinder** (2) having a housing (4) **and** a rotor (3) mounted therein. Furthermore, the tumblers (5, 23) influencing the combinatorics each have a core pin (6, 26) **and** a housing pin (7, 25) **and** a key channel (11) incorporated into the rotor (3). The tumblers (5, 23) are arranged in the keyway (11) by inserting the security key (1). The at least two tumblers (5, 23) are mechanically controlled by the security key (1) so that they are arranged radially in different directions. According to the invention, at least one of the tumblers (5) is preferably pulled against the keyway (11) by the security key (1) for arrangement. Furthermore, according to the invention, said at least one tumbler (5) is preferably struck **and** arranged by a front key tip (10) of the security key (1).