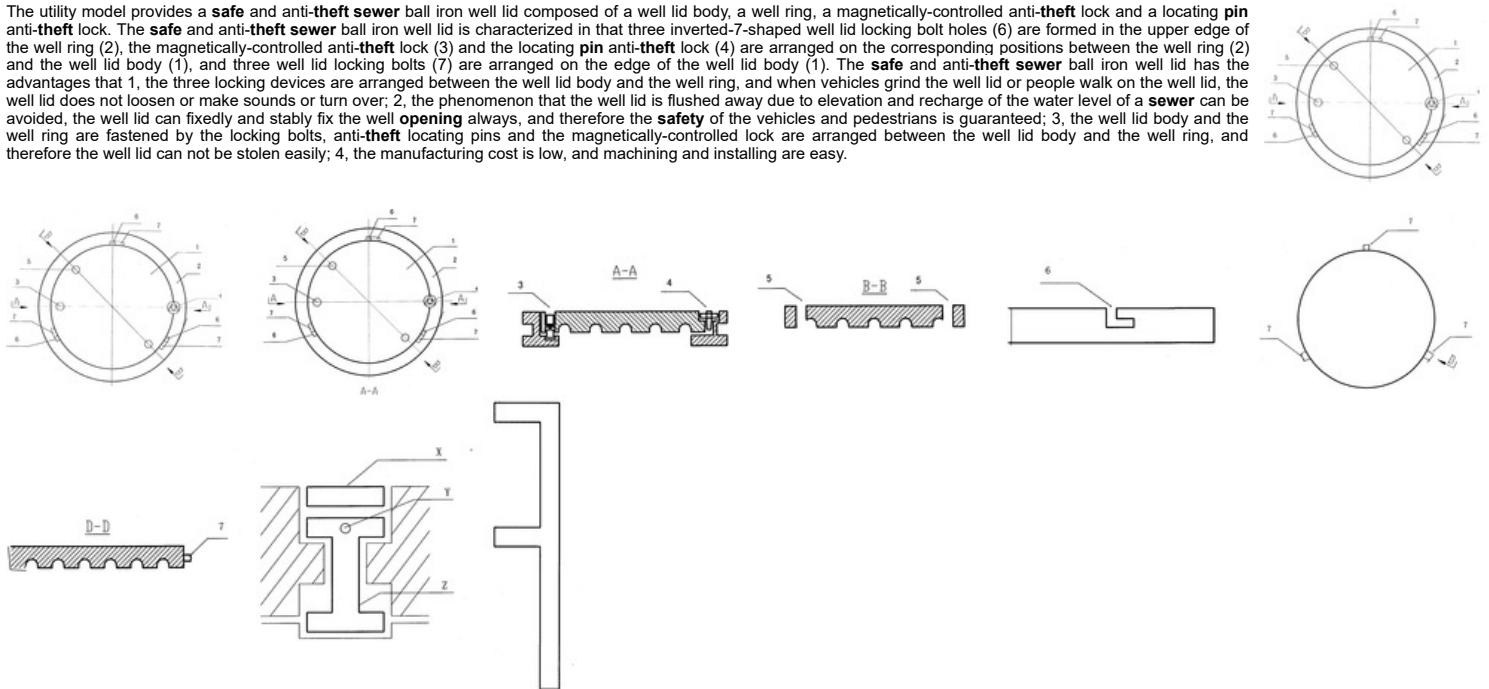


6705 results for ((sewer)/TI/AB/IW/CLMS/DESC/ODES/OBJ/TX AND (cover)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (safe+ OR secur+ OR theft)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (lever OR handle OR pin)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (open+)/TI/AB/IW/OBJ/ADB/ICLM) - Collection: FAMPAT

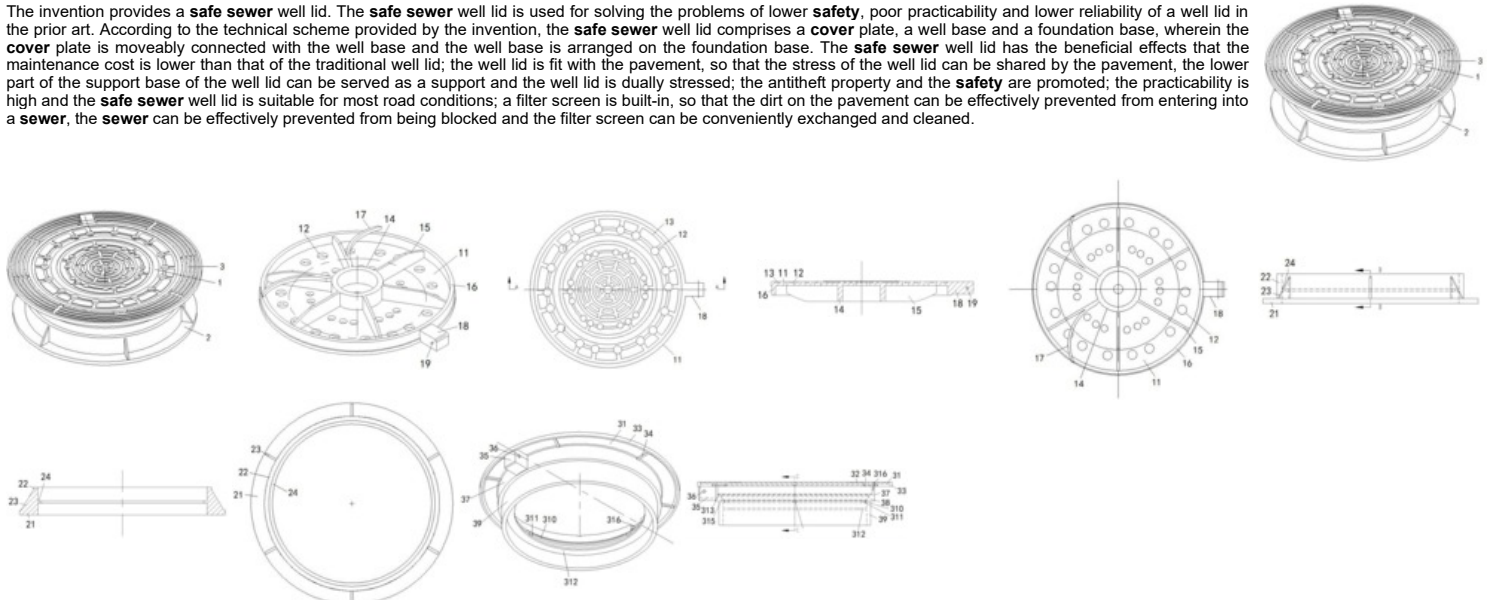
#	Title	Publication number	1st App. date	Applicant/Assignee	1st Publ. date	Publ. date
1.	Safe and anti-theft sewer ball iron well lid	CN203420288	2013-08-14	PENG HUAJIN	2014-02-05	2014-02-05

The utility model provides a **safe** and **anti-theft sewer ball iron well lid** composed of a well lid body, a well ring, a magnetically-controlled **anti-theft lock** and a locating **pin anti-theft lock**. The **safe** and **anti-theft sewer ball iron well lid** is characterized in that three inverted-7-shaped well lid locking bolt holes (6) are formed in the upper edge of the well ring (2), the magnetically-controlled **anti-theft lock** (3) and the locating **pin anti-theft lock** (4) are arranged on the corresponding positions between the well ring (2) and the well lid body (1), and three well lid locking bolts (7) are arranged on the edge of the well lid body (1). The **safe** and **anti-theft sewer ball iron well lid** has the advantages that 1, the three locking devices are arranged between the well lid body and the well ring, and when vehicles grind the well lid or people walk on the well lid, the well lid does not loosen or make sounds or turn over; 2, the phenomenon that the well lid is flushed away due to elevation and recharge of the water level of a **sewer** can be avoided, the well lid can fixedly and stably fix the well **opening** always, and therefore the **safety** of the vehicles and pedestrians is guaranteed; 3, the well lid body and the well ring are fastened by the locking bolts, **anti-theft** locating pins and the magnetically-controlled lock are arranged between the well lid body and the well ring, and therefore the well lid can not be stolen easily; 4, the manufacturing cost is low, and machining and installing are easy.



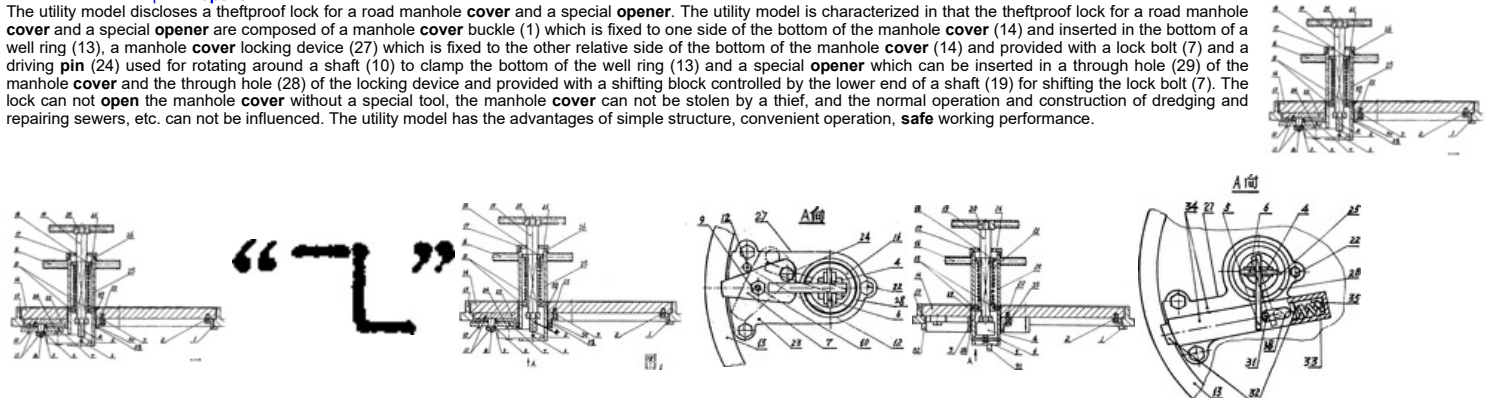
2.	Safe sewer well lid	CN106592746	2017-02-13	UNIVERSITY ZHENGZHOU LIGHT INDUSTRY*	2017-04-26	2017-04-26
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The invention provides a **safe sewer well lid**. The **safe sewer well lid** is used for solving the problems of lower **safety**, poor practicability and lower reliability of a well lid in the prior art. According to the technical scheme provided by the invention, the **safe sewer well lid** comprises a **cover plate**, a well base and a foundation base, wherein the **cover plate** is moveably connected with the well base and the well base is arranged on the foundation base. The **safe sewer well lid** has the beneficial effects that the maintenance cost is lower than that of the traditional well lid; the well lid is fit with the pavement, so that the stress of the well lid can be shared by the pavement, the lower part of the support base of the well lid can be served as a support and the well lid is dually stressed; the antitheft property and the **safety** are promoted; the practicability is high and the **safe sewer well lid** is suitable for most road conditions; a filter screen is built-in, so that the dirt on the pavement can be effectively prevented from entering into a **sewer**, the **sewer** can be effectively prevented from being blocked and the filter screen can be conveniently exchanged and cleaned.

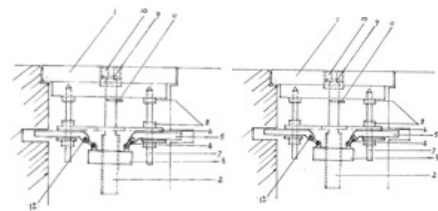
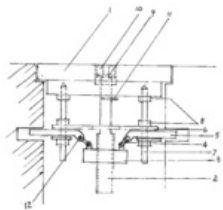


3.	Anti-theft lock for road manhole cover and special opener	CN2579956	2002-10-31	ZHANG SHOUZHI	2003-10-15	2003-10-15
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The utility model discloses a theftproof lock for a road manhole **cover** and a special **opener**. The utility model is characterized in that the theftproof lock for a road manhole **cover** and a special **opener** are composed of a manhole **cover** buckle (1) which is fixed to one side of the bottom of the manhole **cover** (14) and inserted in the bottom of a well ring (13), a manhole **cover** locking device (27) which is fixed to the other relative side of the bottom of the manhole **cover** (14) and provided with a lock bolt (7) and a driving **pin** (24) used for rotating around a shaft (10) to clamp the bottom of the well ring (13) and a special **opener** which can be inserted in a through hole (29) of the manhole **cover** and the through hole (28) of the locking device and provided with a shifting block controlled by the lower end of a shaft (19) for shifting the lock bolt (7). The lock can not **open** the manhole **cover** without a special tool, the manhole **cover** can not be stolen by a thief, and the normal operation and construction of dredging and repairing sewers, etc. can not be influenced. The utility model has the advantages of simple structure, convenient operation, **safe** working performance.

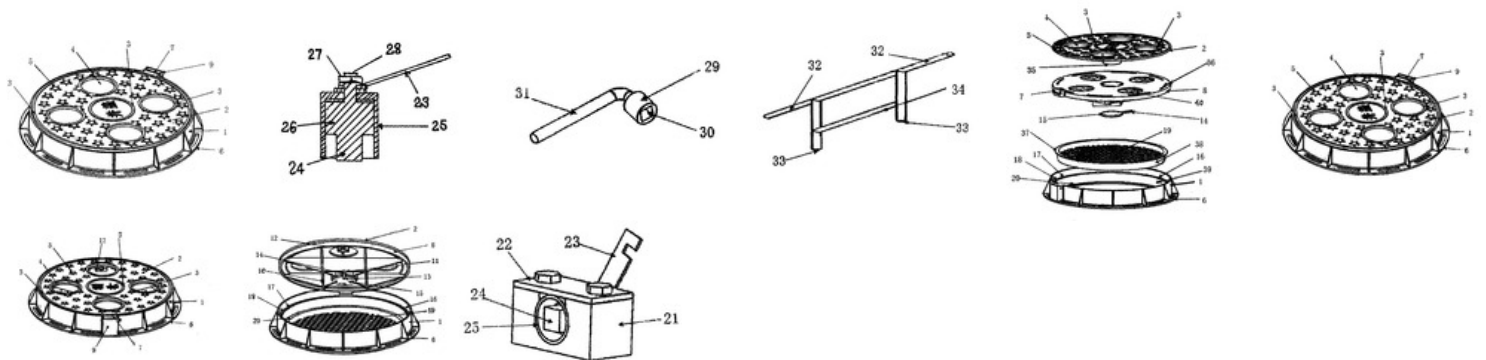
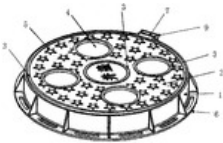


4.	Anti-theft device for sewer cover	CN2706568	2004-03-29	YANG QIGANG	2005-06-29	2005-06-29
The utility model relates to an anti-theft device for a sewer cover. The utility model comprises an adjustable locking device composed of a sewer cover plate, an endless screw, a worm gear, a connecting rod, a slide block, a sliding plate, a screw stay, a fixing nut and a loose pin. The endless screw and the sewer cover plate are connected and fastened by the fixed pin and a special screw cap. The circumference of the wall of the sewer is provided with necks corresponding to the slide block. The slide block of the adjustable locking device can be inserted or quit the neck by rotating the special bolt of the endless screw of the top to obtain the purpose of anti-theft.						

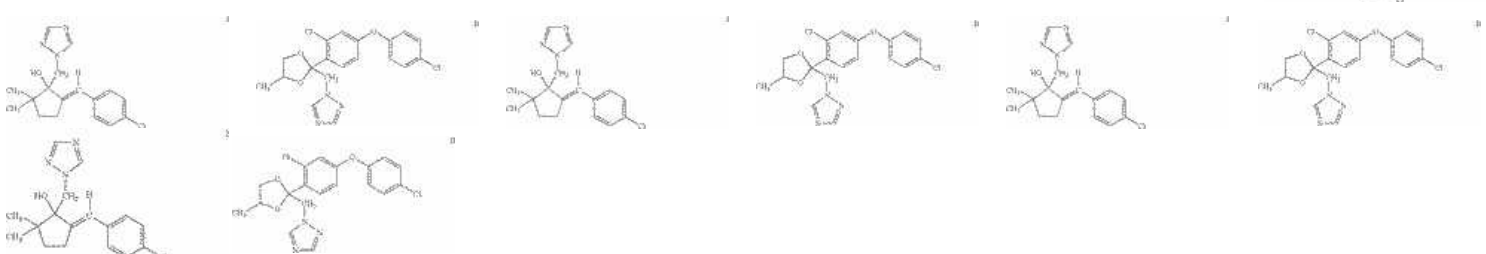
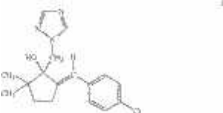


5.	Multi-purpose security anti-theft drainage urban road surface manhole cover	CN203412001	2013-08-01	WANG XIANJUN	2014-01-29	2014-01-29
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The utility model discloses a multi-purpose **security anti-theft** drainage urban road surface manhole **cover**, and belongs to the technical field of municipal engineering. A protective sleeve is arranged on a manhole **cover** base; two layers of steps are arranged on the inner wall of the protective sleeve; a wedged protective net is placed on the lower-layer step; a multi-hole overturn **cover** is arranged on the upper-layer step; a multi-hole rotary **cover** is arranged on the surface of the overturn **cover**. The protective net for preventing human bodies and animals from falling is arranged on the step in the protective sleeve of the base; a vibration reduction-type multi-hole interlayer manhole **cover** which can be rotated at a certain angle and can be **opened** or closed by utilizing a movable pivot is arranged at the upper end of the protective net; **security anti-theft** performance can be realized after the upper **cover** of the interlayer manhole **cover** is closed by rotating a special **handle**; road surface accumulation water can be drained or flood discharge and pressure reduction can be performed after the upper **cover** of the interlayer manhole **cover** is **opened** by rotating; a secondary anti-theft lock for **opening** the manhole **cover** by using a key is arranged on the inside wall of the water hole of the overturn manhole **cover** at the corresponding end of an overturn manhole **cover** support seat. The multi-purpose **security anti-theft** drainage urban road surface manhole **cover** has the characteristics of low production cost, simplicity and convenience in operation, double **security anti-theft** performance and relief of urban road surface flood, and is the urban road surface manhole which has high practicability.

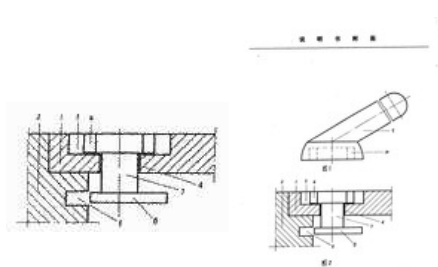
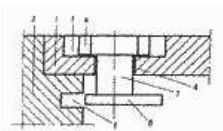


6.	Pesticidal mixtures	CA2857075	2008-02-05	BASF*	2008-08-14	2008-08-14
Synergistic pesticidal mixtures comprising, as active components, an insecticidal compound I which is fipronil and a fungicidal compound IIA which is trifloxystrobin.						



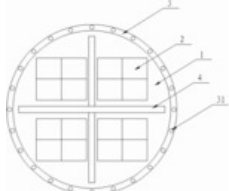
7.	Anti-stealing well cover and sewer cover	CN87206383	1987-04-13	MA JIANGBO	1988-09-28	1988-09-28
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The utility model provides an anti-stealing well **cover** or an anti-stealing **sewer cover**. The utility model which has an anti-stealing function is used in municipal engineering. A plurality of circular holes in the form of a step are drilled on the well **cover** or on the **sewer cover**, a purpose-made lock which is composed of a lock head, a lock rod, and a lock plate is arranged in every circular hole, and the well **cover** or the **sewer cover** is **opened** with a groove. When a special wrench with an inner hole is used to rotate the lock head, the lock plate is inserted in the well **cover** or the **sewer cover** for achieving the purpose that the well **cover** or the **sewer cover** is fixed on a **cover** seat or on a ring of the **sewer cover**.



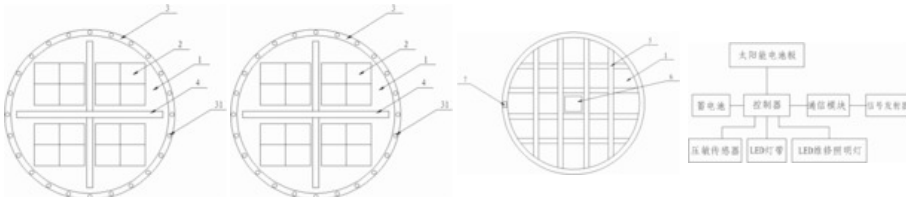
8. Solar safe, anti-theft and intelligent well lid device and control method thereof CN107190779 2017-07-06 JINAN UNIVERSITY* 2017-09-22 2017-09-22

The invention provides a solar **safe**, anti-**theft** and intelligent well lid device which comprises an inspection well lid, photovoltaic cell panels, an LED lamp band, an LED maintenance illumination lamp, a storage cell, a controller, a communication module and a signal projector. The controller is electrically connected with the photovoltaic cell panels, the LED lamp band, the LED maintenance illumination lamp, the storage cell and the communication module. The signal projector is electrically connected with the communication module. The storage cell is electrically connected with the LED lamp band and the LED maintenance illumination lamp. The invention further provides a control method of the solar **safe**, anti-**theft** and intelligent well lid device. The control method is used for achieving well lid night warning, well lid **opening** state warning, well lid anti-**theft** alarm and downhole maintenance illumination. According to the solar **safe**, anti-**theft** and intelligent well lid device and the control method, photovoltaic power generation is utilized for providing green and clean energy for the well lid device, the accidents that pedestrians fall into a well are effectively reduced, and potential **safety** hazards are reduced. In addition, a GPS module and the communication module are additionally mounted, and therefore anti-**theft** alarm of the well lid device is achieved.



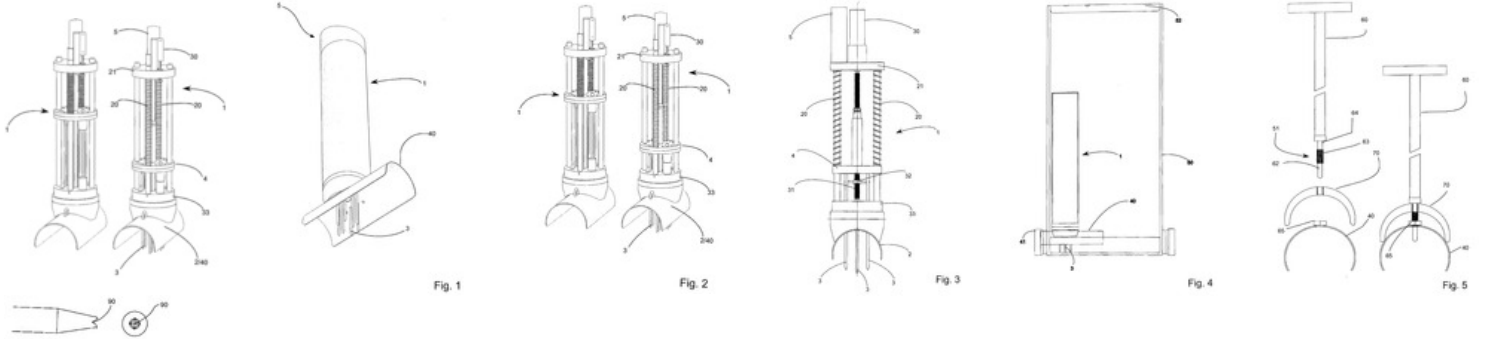
9. A rat trap DK200601357 2006-10-19 HOLDINGS EIPIESU PIEEFU PAF HOLDING* 2008-04-20 2008-04-20

A rat trap (1) which comprises a plate (2) with a first side and a second side and with a number of through-going **openings** from the first to the second side. The trap has a number of spikes (3) **secured** to an anchoring plate (4) arranged on the top face of said plate and wherein each spike is adapted to the individual **openings** in the plate to the effect that a spike is able to slide through the plate. The plate (2) has an infrared sensor adapted to detect the presence of a rat within the reach of the spikes. The rat trap further comprises a withdrawal mechanism which, following a given period of time, withdraws the spikes through the **openings** in the plate whereby the rat spiked by one or more spikes (3) is released.



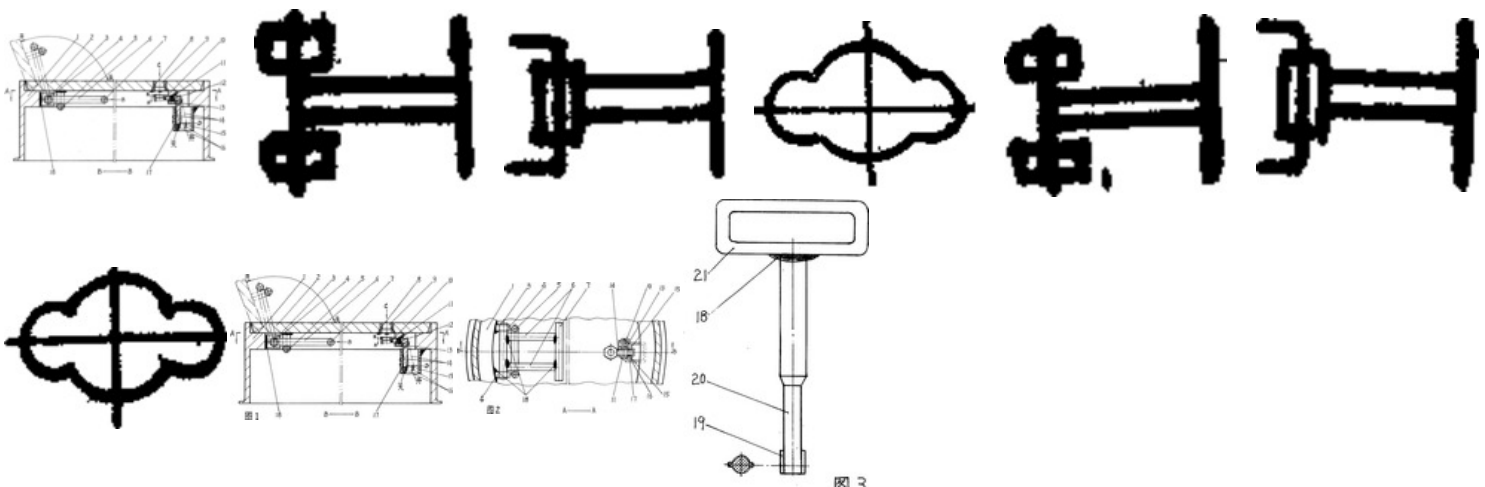
10. Handy and safe theftproof well covers CN1958971 2006-04-09 MOU YINGLUN 2007-05-09 2007-05-09

The present invention relates to a **safety** anti-**theft** manhole **cover**. It is characterized by that one end of two ends of central line of manhole **cover** undersurface is equipped with a hinged **cover** hole which is welded together with said manhole ring, said hinged **cover** hole is matched with a hinged shaft, and another end of two ends of the central line of manhole **cover** undersurface is equipped with a self-locking device, said self-locking device includes the following several portions: locking core and locking core support which are welded together with manhole ring and made into one body. Besides, said anti-**theft** manhole **cover** also has a special-tool, said special-tool can be used for **opening** or closing said manhole **cover**.



10. Handy and safe theftproof well covers CN1958971 2006-04-09 MOU YINGLUN 2007-05-09 2007-05-09

The present invention relates to a **safety** anti-**theft** manhole **cover**. It is characterized by that one end of two ends of central line of manhole **cover** undersurface is equipped with a hinged **cover** hole which is welded together with said manhole ring, said hinged **cover** hole is matched with a hinged shaft, and another end of two ends of the central line of manhole **cover** undersurface is equipped with a self-locking device, said self-locking device includes the following several portions: locking core and locking core support which are welded together with manhole ring and made into one body. Besides, said anti-**theft** manhole **cover** also has a special-tool, said special-tool can be used for **opening** or closing said manhole **cover**.



11.

Cut and cover tunneling method for installing sewer and cut and cover device for installing sewer

JP2005068764

2003-08-22

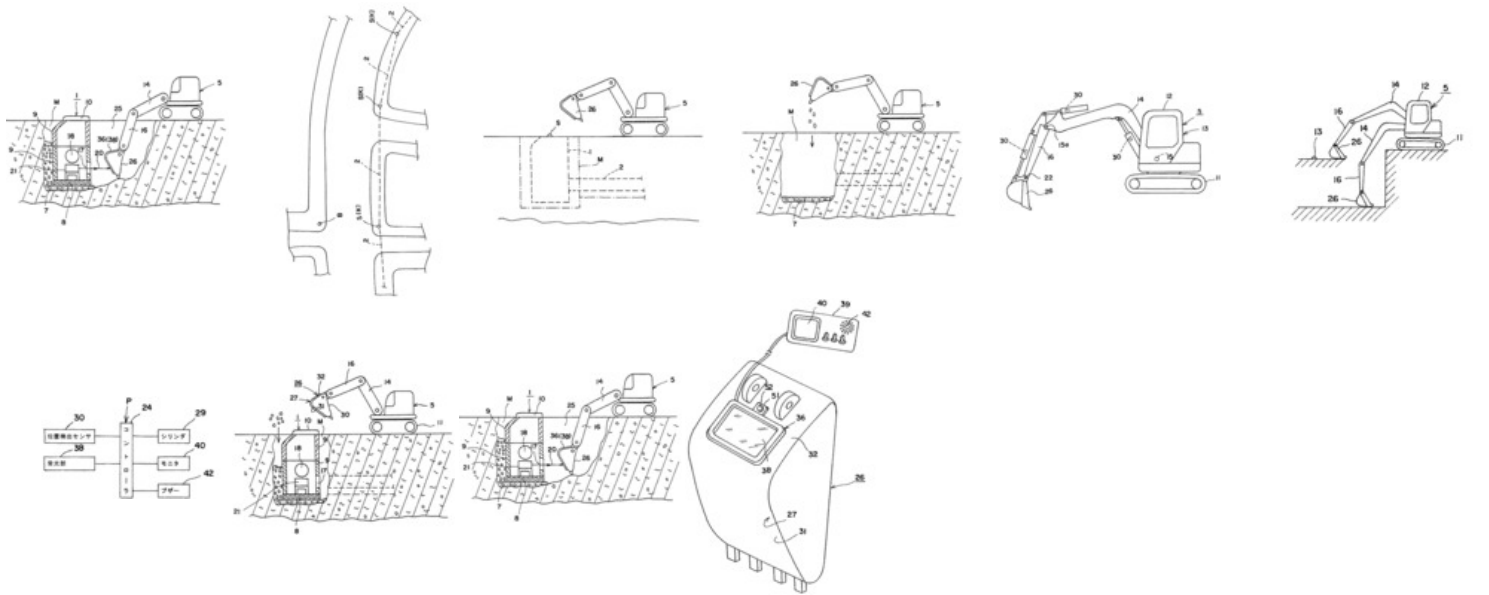
SHIGENO*

2005-03-17 2005-03-17

PROBLEM TO BE SOLVED: To provide a cut and cover tunneling method for installing a sewer and a cut and cover device for installing the sewer capable of automating the cut and cover of a cut and cover ditch.

SOLUTION: A light-emitting instrument 21 is mounted in a manhole 1 installed in a manhole mounting hole M. The light-emitting instrument 21 irradiates light beams 20 so as to coincide with the axial center of the sewer 2 towards the laying predetermined direction and grade of the sewer 2 connected to a drain inlet 17 or an inflow port 18 for the manhole 1 from the drain inlet 17 or the inflow port 18. The cut and cover ditch 25 in which the sewer 2 is laid is cut and covered by an excavator 5 having an automatic control means P. The set depth of the automatic control means P is corrected and the cut and cover device is controlled automatically, using the light beams 20 received by a light-receiving section 38 secured to a bucket 26 as a reference while the excavator 5 automatically controls and conducts cut and cover works by the bucket 26 or the like up to a previously input set depth by the automatic control means P.

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12.

Safe theft-proof manhole cover

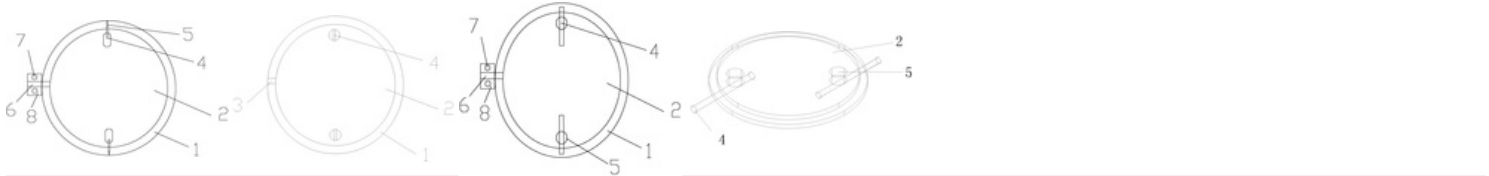
CN202416366

2011-11-08

TIANJIN GUODA MUNICIPAL ENGINEERING*

2012-09-05 2012-09-05

The utility model aims to provide a safe theft-proof manhole cover, which can realize a theft-proof function and ensure the safety of pedestrians after the manhole cover is stolen. According to the technical scheme, the safe theft-proof manhole cover comprises a pedestal, a cover plate and a connecting shaft for connecting the pedestal and the cover plate, wherein the cover plate is provided with boreholes. The manhole cover is characterized in that the cover plate is in a downward opening mode; the cover plate is formed by superposing two coaxial cylindrical materials, wherein the radius of the lower cylindrical material is greater than that of the upper cylindrical material; and a stop lever is arranged below each borehole, and the stop levers are movably connected with the cover plate. The utility model has the advantages that the stealing difficulty of the manhole cover is increased in the downward opening mode of the manhole cover; by adding an inductor, the municipal administration department can acquire the position of the lost manhole cover in the shortest time, so that the lost manhole cover is replaced in time; and by adding a lamp, the warning effect on the pedestrians is improved.



13.

Sewer cover lifting tool

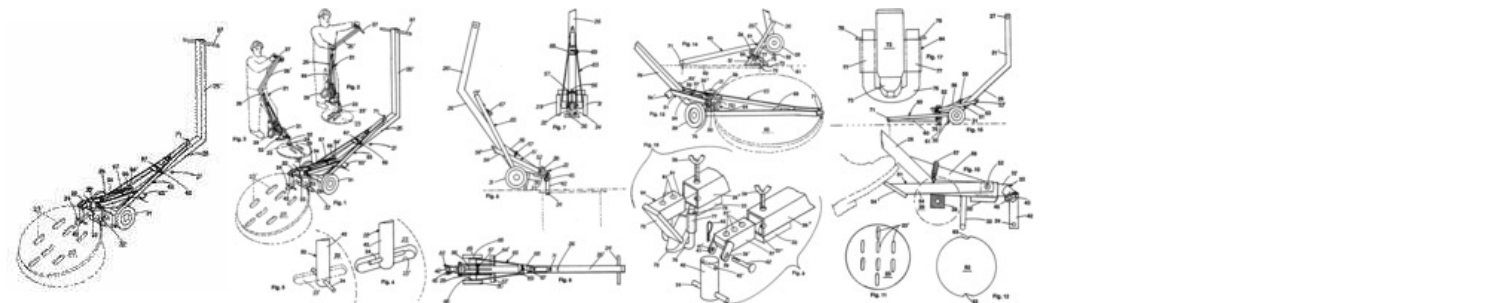
US5292107

1992-12-11

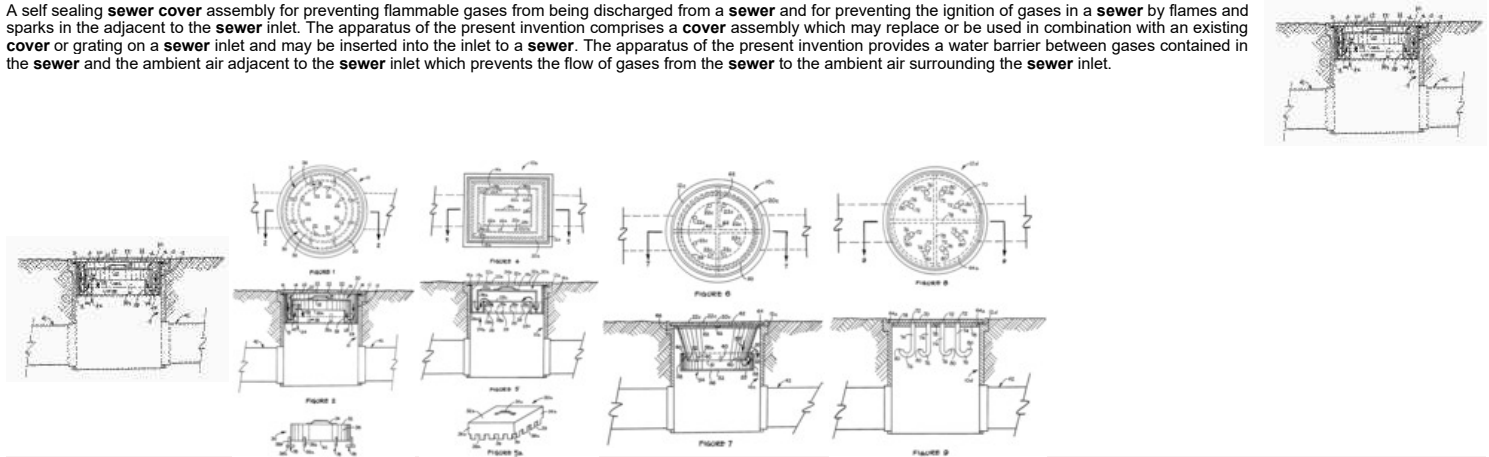
CHICK GERALD T

1994-03-08 1994-03-08

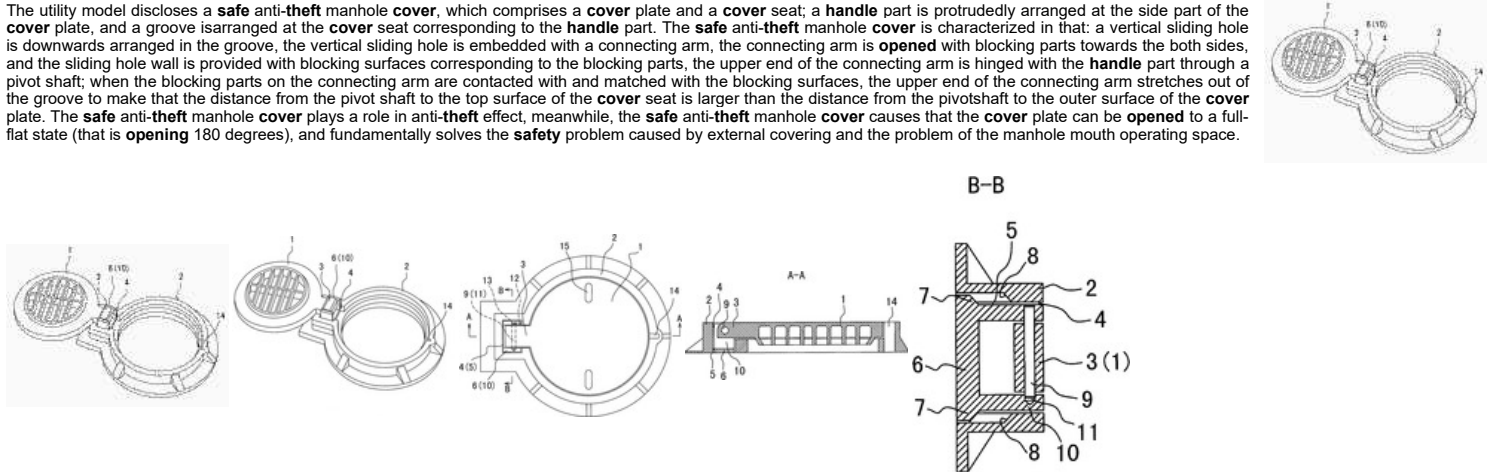
A wheeled hand lever tool for lifting, transporting and installing heavy sewer covers that will lift the cover from its side edge. In one form, a T-fitting lifts from an elongated slot through holes in the cover allowing the cover to tilt forwardly for its edge to engage a stop plate on the tool so that the cover is rigidly held by gravity upon the tool. To have added lift advantage, a depending ground-engaging fulcrum is located forwardly of its wheels. For peripherally-notched covers direct engagement is had with diametrically-opposite notches by use of a secondary lifting arm that is lowered from the lifting arm of the tool.



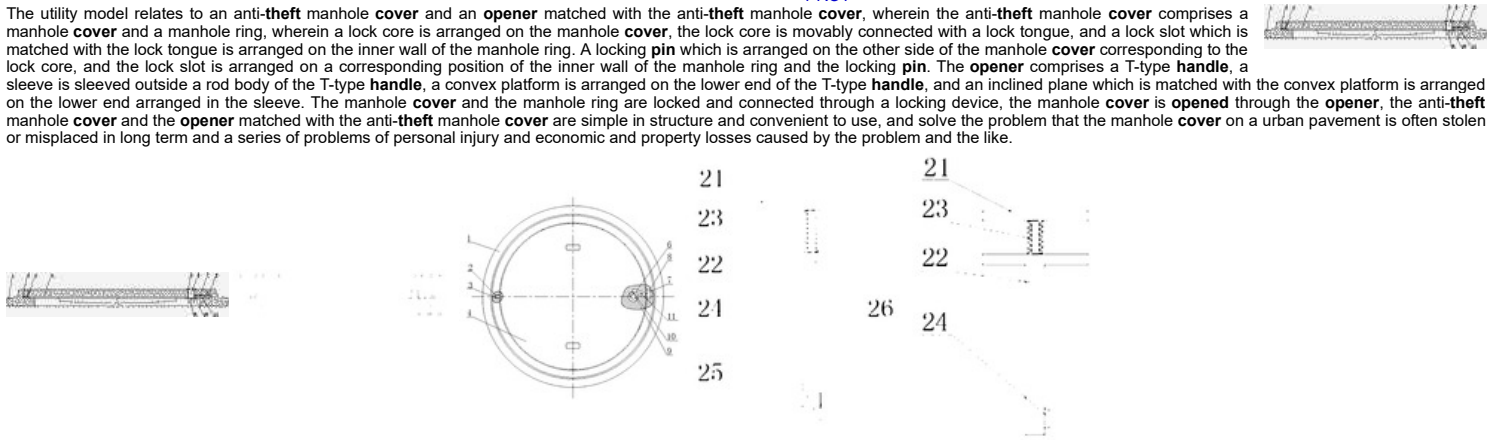
A self sealing **sewer cover** assembly for preventing flammable gases from being discharged from a **sewer** and for preventing the ignition of gases in a **sewer** by flames and sparks in the adjacent to the **sewer** inlet. The apparatus of the present invention comprises a **cover** assembly which may replace or be used in combination with an existing **cover** or grating on a **sewer** inlet and may be inserted into the inlet to a **sewer**. The apparatus of the present invention provides a water barrier between gases contained in the **sewer** and the ambient air adjacent to the **sewer** inlet which prevents the flow of gases from the **sewer** to the ambient air surrounding the **sewer** inlet.



The utility model discloses a **safe anti-theft manhole cover**, which comprises a **cover plate** and a **cover seat**; a **handle** part is protrudently arranged at the side part of the **cover plate**, and a groove is arranged at the **cover seat** corresponding to the **handle** part. The **safe anti-theft manhole cover** is characterized in that: a vertical sliding hole is downwards arranged in the groove, the vertical sliding hole is embedded with a connecting arm, the connecting arm is **opened** with blocking parts towards the both sides, and the sliding hole wall is provided with blocking surfaces corresponding to the blocking parts, the upper end of the connecting arm is hinged with the **handle** part through a pivot shaft; when the blocking parts on the connecting arm are contacted with and matched with the blocking surfaces, the upper end of the connecting arm stretches out of the groove to make that the distance from the pivot shaft to the top surface of the **cover seat** is larger than the distance from the pivotshaft to the outer surface of the **cover plate**. The **safe anti-theft manhole cover** plays a role in anti-theft effect, meanwhile, the **safe anti-theft manhole cover** causes that the **cover plate** can be **opened** to a full-flat state (that is **opening** 180 degrees), and fundamentally solves the **safety** problem caused by external covering and the problem of the manhole mouth operating space.



The utility model relates to an anti-theft manhole **cover** and an **opener** matched with the anti-theft manhole **cover**, wherein the anti-theft manhole **cover** comprises a manhole **cover** and a manhole ring, wherein a lock core is arranged on the manhole **cover**, the lock core is movably connected with a lock tongue, and a lock slot which is matched with the lock tongue is arranged on the inner wall of the manhole ring. A locking **pin** which is arranged on the other side of the manhole **cover** corresponding to the lock core, and the lock slot is arranged on a corresponding position of the inner wall of the manhole ring and the locking **pin**. The **opener** comprises a T-type **handle**, a sleeve is sleeved outside a rod body of the T-type **handle**, a convex platform is arranged on the lower end of the T-type **handle**, and an inclined plane which is matched with the convex platform is arranged on the lower end arranged in the sleeve. The manhole **cover** and the manhole ring are locked and connected through a locking device, the manhole **cover** is **opened** through the **opener**, the anti-theft manhole **cover** and the **opener** matched with the anti-theft manhole **cover** are simple in structure and convenient to use, and solve the problem that the manhole **cover** on a urban pavement is often stolen or misplaced in long term and a series of problems of personal injury and economic and property losses caused by the problem and the like.



17.

Theft-proof well cover and its base and the opener therefor

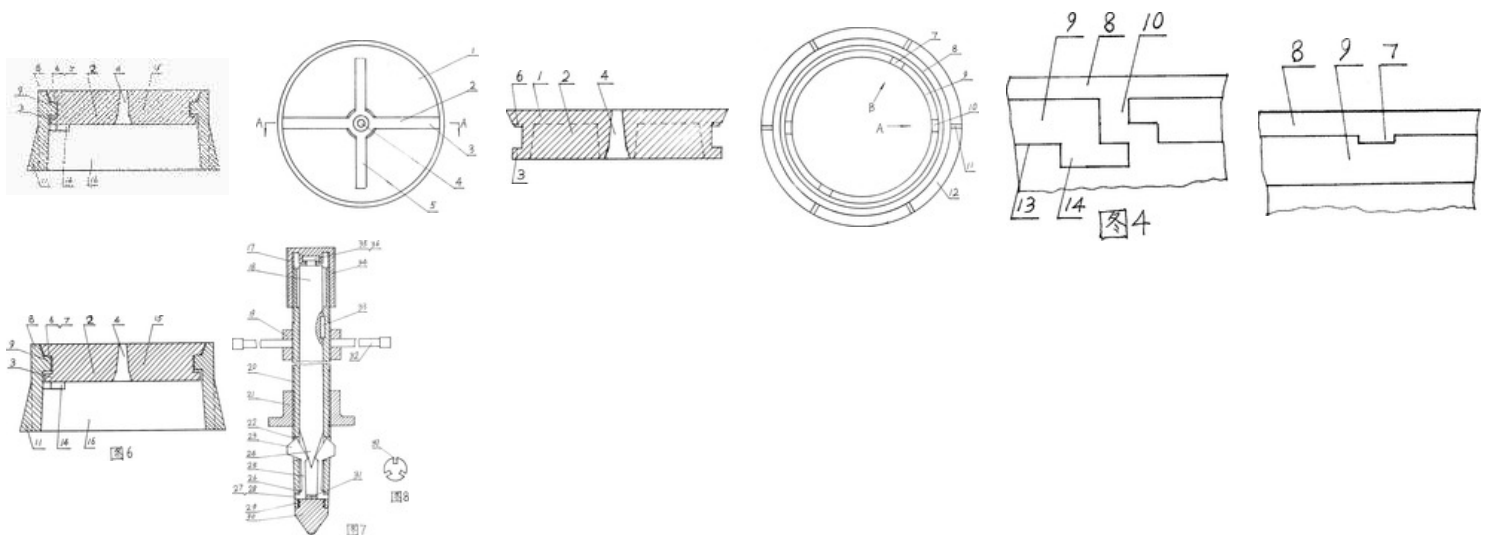
CN2483429

2001-05-08

GAO TIANLONG

2002-03-27 2002-03-27

The utility model belongs to a **theft-proof well cover** as well as thereof well **cover seat** and **opening tool**. A **cover plate** of the **theft-proof well cover** is provided with an **opening hole** which is a cone hole with small upper part and big lower part, and a **dogging** which is bended outward is fixed under the **cover plate**, and a **kink** through groove whose width is matched with the **dogging** of the **theft-proof well cover** is arranged on a seat insert of the well **cover seat**, whose position is corresponding to the **dogging** of the **theft-proof well cover**, and a plurality of movable clip boards are provided on an **opening head** of the **opening tool**, whose lower ends are clipped at the front end of the **opening head**, and the **opening** of the clip board is adjusted by the up and down sliding of a movable rod. The **theft-proof well cover** as well as thereof well **cover seat** and **opening tool** has good **theft-proof performance** and is easy to be **opened**.



18.

Special manhole cover theft proofing device

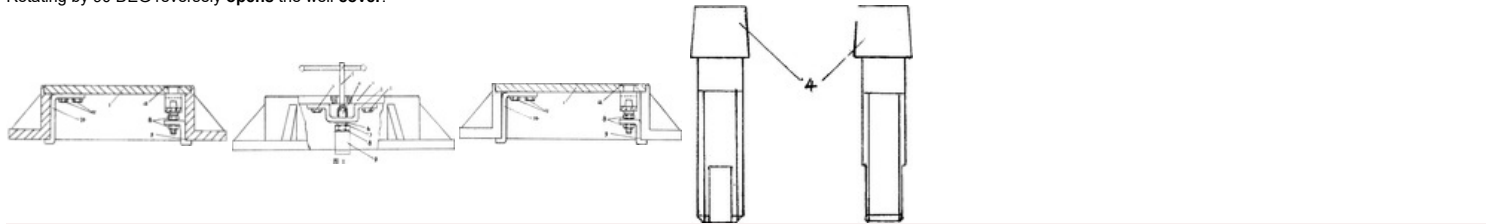
CN2533227

2002-04-15

TANG XIANYUN

2003-01-29 2003-01-29

The utility model relates to a special **theft** protection device for stealing well covers, which is mainly used for **sewer** stealing wells in existence and without the **theft** protection device, is arranged under the well **cover** and consists of a rotary hook and a fastened hook. The rotary hook consists of a bearing piece, a taper bolt, a flat gasket, a spring gasket, two locknuts and a rotary hook. Movement rule of the rotary hook takes the taper bolt as a circle center to rotate by 90 DEG. The fastening hook is fastened opposite the rotary hook by the bolt. When using the utility model, the fastening hook hooks an inner side of the well head at first; then a taper head of the taper bolt is covered by a taper **handle** firmly to rotate by 90 DEG to enable that the rotary hook hooks the other side of the inner well; the well **cover** is locked completely. Rotating by 90 DEG reversely **opens** the well **cover**.



19.

Bidet toilet having a damage device

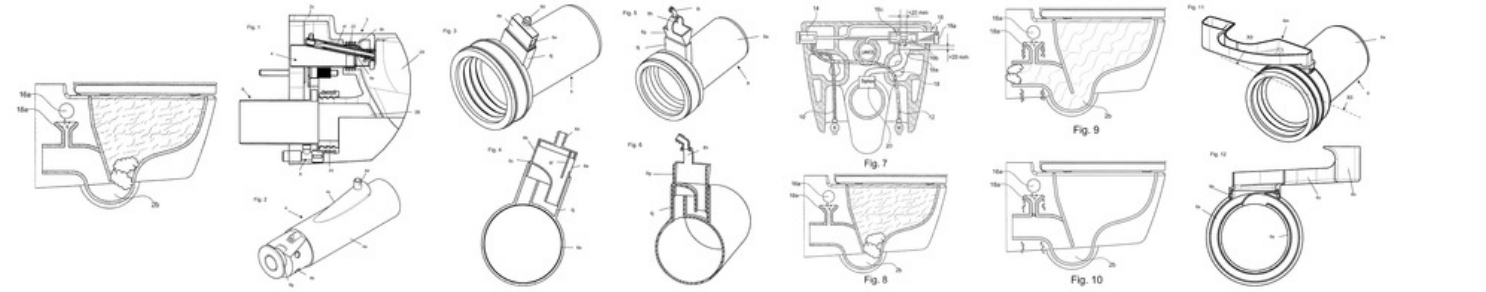
DE202014101888

2014-04-22

TECE*

2015-02-26 2015-02-26

The invention relates to a bidet toilet, comprising a toilet body (2). The toilet body has a flushing-water connection for feeding flushing water into a flushing chamber (2a) defined by the toilet body, which flushing chamber has a bottom end and a top end bounded by a toilet **opening**, a drain connection for draining dirty water from the flushing chamber (2a) as part of a flushing operation, which drain connection comprises a primary odor-blocking means, an intimate cleaning device for performing an intimate cleaning of a user, which intimate cleaning device is fed by means of a potable water line, and a **safety** apparatus for **safeguarding** a potable-water line. In order to meet the requirements of DIN EN 1717 in an especially simple and space-saving manner, the **safety** apparatus according to the invention comprises a damage **opening** (6e), which is arranged below a top edge of the toilet **opening**.



20.

Multipurpose urban road surface well lid for **safe** burglary prevention and drainage of stagnant water

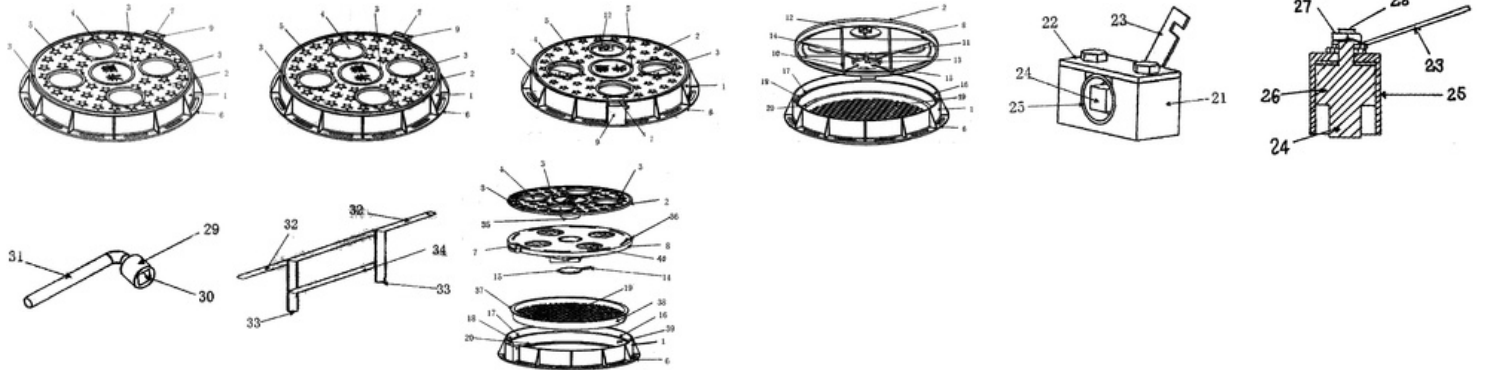
CN103352481

2013-08-01

WANG XIANJUN

2013-10-16 2013-10-16

The invention provides a multipurpose urban road surface well lid for **safe** burglary prevention and drainage of stagnant water and belongs to the technical field of municipal engineering. The multipurpose urban road surface well lid is characterized in that a protective sleeve is arranged on a well lid base; the inner wall of the protective sleeve is provided with two layers of steps; a wedged type protection net is placed on the step of the lower layer; a porous overturning **cover** is arranged on the step of the upper layer; a porous rotary **cover** is arranged on the surface of the overturning **cover**. The step inside the protective sleeve of the base is provided with the protection net for preventing people and objects from falling down; the upper end of the protection net is provided with a vibration-absorption type porous interlayer well lid which can overturn and rotate for a certain angle to be **opened** or closed by utilizing a movable supporting point; a special **handle** is used for rotating to close an upper **cover** of the interlayer well lid to realize the **safe** burglary prevention; the upper **cover** of the interlayer well lid is unscrewed to discharge road surface deposited water or flood to decompress, and a secondary burglary prevention lock for **opening** the well lid by using a key is mounted on the inner side wall of a water through hole in one end of an overturning well lid corresponding to an overturning well lid support. The multipurpose urban road surface well lid disclosed by the invention has the characteristics of low production cost, convenience in operation, dual **safe** burglary prevention and remission of urban road surface flood, and is the urban road surface well lid with the strong practicability.



21.

Ornament **cover** for sewer pipe

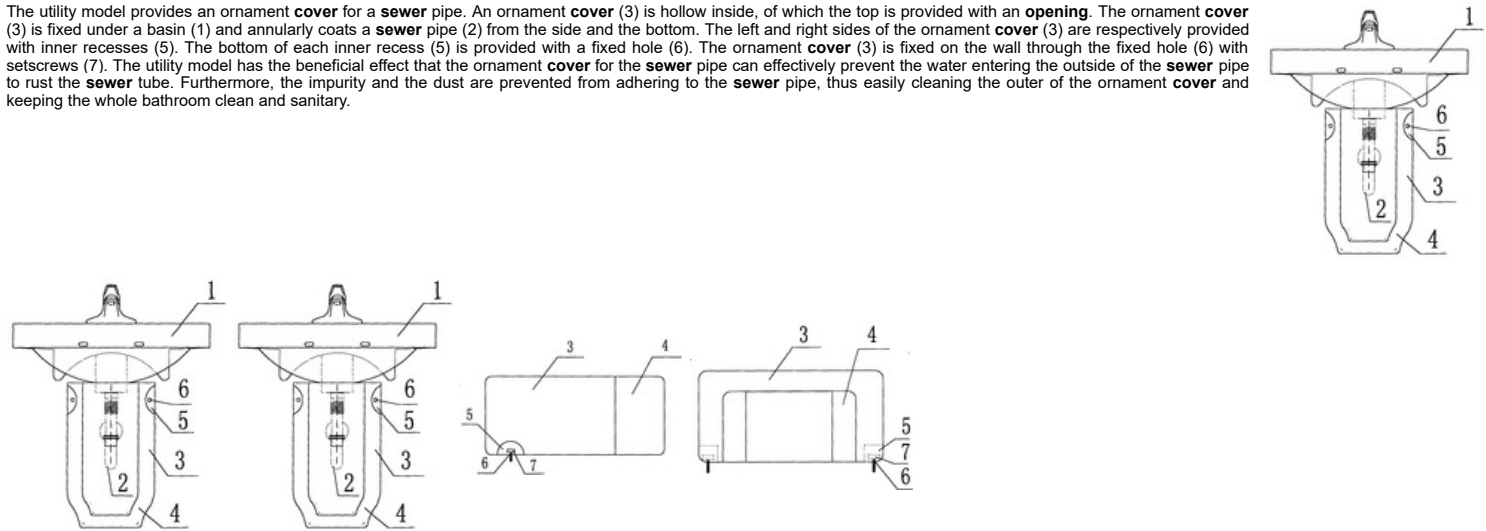
CN201564409

2009-12-09

SUZHOU INDUSTRY PARK COZY SANITARY EQUIPMENT*

2010-09-01 2010-09-01

The utility model provides an ornament **cover** for a **sewer** pipe. An ornament **cover** (3) is hollow inside, of which the top is provided with an **opening**. The ornament **cover** (3) is fixed under a basin (1) and annularly coats a **sewer** pipe (2) from the side and the bottom. The left and right sides of the ornament **cover** (3) are respectively provided with inner recesses (5). The bottom of each inner recess (5) is provided with a fixed hole (6). The ornament **cover** (3) is fixed on the wall through the fixed hole (6) with setscrews (7). The utility model has the beneficial effect that the ornament **cover** for the **sewer** pipe can effectively prevent the water entering the outside of the **sewer** pipe to rust the **sewer** tube. Furthermore, the impurity and the dust are prevented from adhering to the **sewer** pipe, thus easily cleaning the outer of the ornament **cover** and keeping the whole bathroom clean and sanitary.



22.

Cover for access **opening** at e.g. **sewer** register well, has anti-theft stop fixed in position interfering with lid when lid is rotated around vertical rotation axis to extraction/insertion position by preventing lid from reachi...

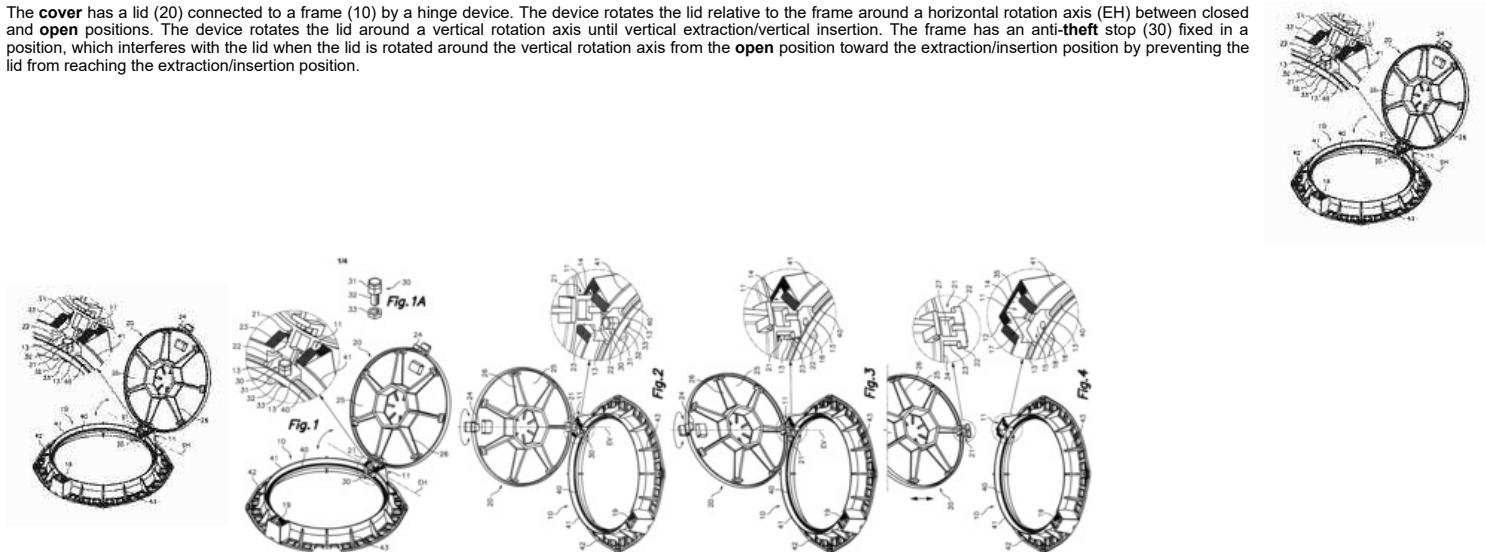
ES1076815

2012-04-02

BENITO URBAN* BENITO URBAN SLU BENITO URBAN U

2012-04-26 2012-04-26

The **cover** has a lid (20) connected to a frame (10) by a hinge device. The device rotates the lid relative to the frame around a horizontal rotation axis (EH) between closed and **open** positions. The device rotates the lid around a vertical rotation axis until vertical extraction/vertical insertion. The frame has an anti-theft stop (30) fixed in a position, which interferes with the lid when the lid is rotated around the vertical rotation axis from the **open** position toward the extraction/insertion position by preventing the lid from reaching the extraction/insertion position.



23.

Temporary cover body for opening provided in sewer pipeline

JP2006045963

2004-08-06

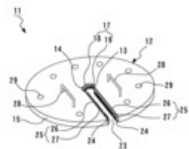
SK TRADING*

2006-02-16 2006-02-16

PROBLEM TO BE SOLVED: To provide a temporary **cover** body preventing the fall of a person or an object from an **opening** during cleaning work, preventing a sewage splash from coming out of the **opening** in performing high pressure washing of a **sewer** pipeline, and moreover cleaning also a water supply pipe.

SOLUTION: An insertion hole 13 allowing the insertion of the water supply pipe is provided in a suitable position of a **cover** body 12 formed to **cover** the **opening** provided in the **sewer** pipeline, and a brush part 25 bristled to freely come in sliding contact with the outer peripheral surface of the inserted water supply pipe is disposed on the inner peripheral surface 14 of the insertion hole 13. The insertion hole 13 is in communication with a guide groove hole 23, and a brush part 25 free to come in sliding contact with the outer peripheral surface of the water supply pipe is disposed also at the guide groove hole 23.

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24.

Easy -to -use type sewer cover plate prevents burglary

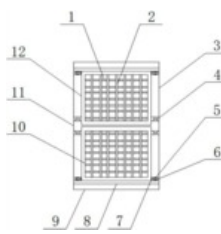
CN206902901

2017-07-03

YANGZHOU JINYANGGUANG CASTING*

2018-01-19 2018-01-19

The utility model discloses an easy -to -use type **sewer cover** plate prevents burglary, including **sewer cover** plate shell body, fixing bearing and fixed apron, the bottom of **sewer cover** plate shell body is provided with shell body top dead **lever**, the top of shell body top dead **lever** is provided with the apron support frame, the top of apron support frame is provided with and moves down moving gatecheck apron, the top that moves down moving gate check apron is provided with center post, design portable apron with current **sewer cover** plate, be provided with the rotation pulley in the below, when pedestrian's article drop in the **sewer**, the pedestrian can directly pull **open sewer cover** plate take out article can, simple and convenient to be provided with on **sewer cover** plate and rotate pulley resistance groove and fix the apron, can on the **sewer cover** plate support frame, can do not not stolen at will by illegal personnel, thereby reach convenience simple to use, **safe** purpose of preventing burglary moving the restriction of moving gate check apron.





25.

Safety and theft-proof well cover

CN2673950

2004-01-02

ZHONG ZHIRONG

2005-01-26 2005-01-26

The utility model discloses a **safety** and **theft**-proof manhole **cover** comprising a manhole **cover**, a fixing ring, a pressing block, a lock box, a lock core, a lock bolt and an **opening** tool. The bottom surface of the manhole **cover** (7) is provided with the lock box (5) through a socket (4). The lock bolt (1) is arranged between the two side plates extending forward of the lock box (5) through a rotary shaft (2), and the lock core (3) is arranged in the lock box (5) through a manhole **cover** hole (11) on the manhole **cover** (7). The small end of the lock core (3) is plugged in the hole (6) of the bottom surface of the lock box (5). The bottom surface of the manhole **cover** (7) corresponding to the lock box (5) is provided with the pressing block (10) through a bolt (9), the manhole **cover** (7) is arranged on the step of the inner hole of the fixing ring (8), and the pressing block (10) and the lock bolt (1) on the bottom surface of the manhole **cover** (7) are hooked on the bottom surface of the fixing ring. The utility model has the advantages of reasonable structure, convenient installation and **opening**, **safety** and **theft** proof and is suitable for the manhole covers of sewers and the maintenance manhole covers layed underground of communication cables.

