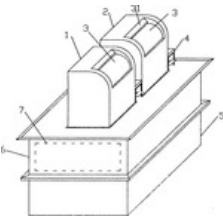
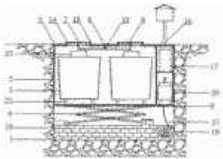
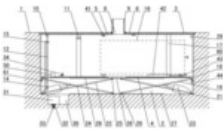
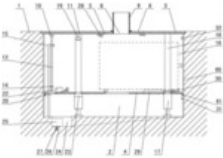
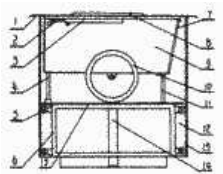
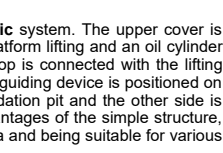
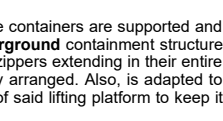
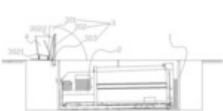
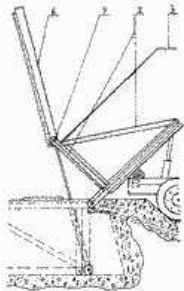
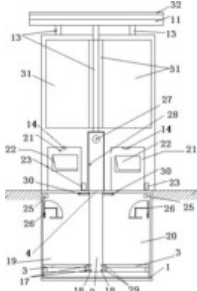
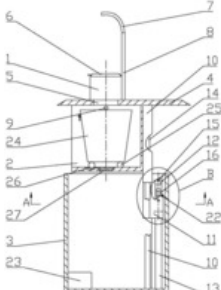
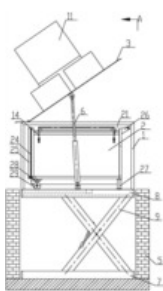
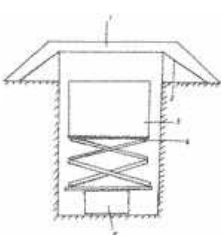
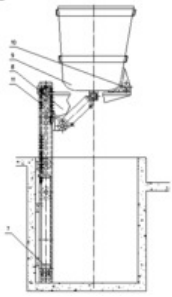
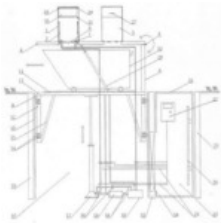
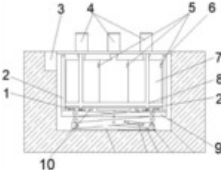
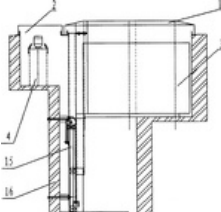
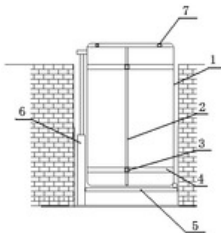
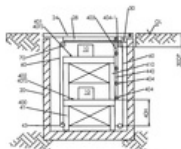
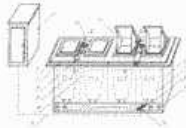
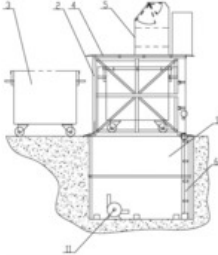
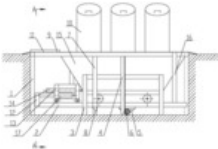
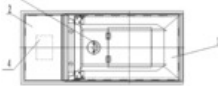
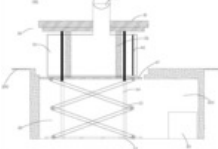
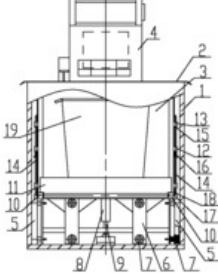
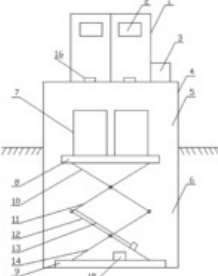


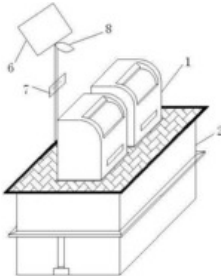
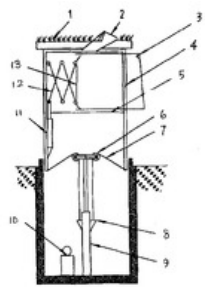
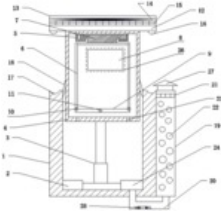
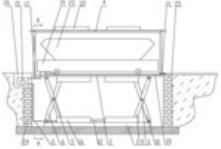
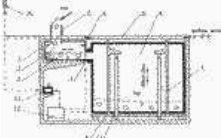
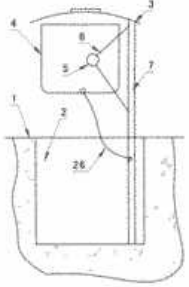
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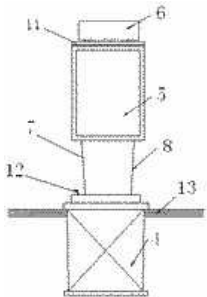
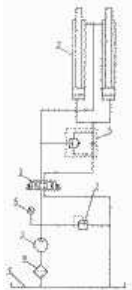
#	  Title	Publication number	Publ. date	Applicant/Assignee	
1.	Hydraulic lifting type underground classification garbage can	CN203959065	2014-11-26	DEZHOU QUNFENG MACHINERY MANUFACTURING	
A hydraulic lifting type underground classification garbage can comprises an aboveground part and an underground part. The aboveground part comprises two feeding boxes which comprise a recoverable feeding box and an unrecoverable feeding box. The underground part comprises an underground accommodation box, a material box bearing frame and a garbage circulation box. A garbage storage box is buried underground, and the problem that garbage is radiated by sunlight and warmed to ferment and smells is solved. Meanwhile, a material box can be automatically hoisted to the ground through a hydraulic lifting system after the material storage box is full, and due to the fact that the material box is designed to be the circulation box type, the material box can be matched with a garbage lift truck to automatically unload the garbage. In addition, the feeding boxes are controlled by pedals, feeding inlets are automatically closed, and the feeding inlets are normally closed, so that mosquitoes and flies are effectively from breeding. By means of the hydraulic lifting type underground classification garbage can, residents can conveniently pour out garbage, automatic control over garbage dumping through sanitation workers is achieved, work efficiency of the sanitation workers is improved, and labor intensity of the sanitation workers is lowered.					
2.	Hydraulic lifting type underground garbage box	CN201140890	2008-10-29	GUO JIAN	
The utility model relates to a hydraulic lifting type ground covering dustbin which comprises a containing box which is arranged in a ground pit, a hydraulic lifting device and a supporting frame which is matched with the ground pit, wherein the containing box is arranged in the supporting frame, the upper end of the supporting frame is level with the ground, and the hydraulic lifting device is connected with the lower end of the supporting frame in a pushing mode. The dustbin has simple structure, good working performance, convenient installment and maintenance and convenient use, can effectively prevent bad odor, and can realize garbage classification and cleaning conveniently, simultaneously, the dustbin also has burglar-proof functions and can be widely applied in various environments which easily produce a large amount of garbage such as city roads, living districts, scenic spots, factories and the like as a large scale garbage reclaiming device.					
3.	Hide crossing hydraulic pressure lift rubbish transfer case of connecting rod	CN206871760	2018-01-12	ZHANG XIANCHI	
Hide crossing hydraulic pressure lift rubbish transfer case of connecting rod, open the pit in its characterized in that ground, establish upper cover and lower platform in the pit, establish big absorbed flap in the upper cover among division major possession trash throwing opening, big input flap front side or rear side are connected through hinge and upper cover upset, establish the garbage bin in the big input flap on division smallclothes trash throwing opening, the upper cover is divided into firstly, the 2nd movable fulcrum, it establishes adjusting nut on the pull rod to link under temovable fulcrum, a drag hook of limiting in the pit, establish the dustbin down on the platform, ozone generator and four above ejector pins, the left side ejector pin is the 2nd movable fulcrum even, hydraulic lift mechanism is divided into to the platform down, hydraulic lift mechanism includes connecting rod in the 3rd movable fulcrum connection, go up another company's bottom roller of connecting rod, establish fourth movable fulcrum connecting rod and hydro -cylinder under the company of shipping and reselling on another market in the pit, gyro wheel in lower another company of connecting rod, the waste material inductive head is divided into to the upper cover, establish the promotion hydro -cylinder down on the platform, it sells fixed with the dustbin through drawing to promote oil cylinder piston rod, the water level inductive head is established to the pit inner wall.					
4.	Hide polystyle hydraulic pressure lift rubbish transfer case	CN206485836	2017-09-12	ZHANG HUANGHUI	
Hide polystyle hydraulic pressure lift rubbish transfer case, open the pit bottom in its characterized in that ground and establish the support, establish upper cover and lower platform in the pit, establish big absorbed flap in the upper cover among division major possession trash throwing opening, big input flap front side or rear side are connected through hinge and upper cover upset, establish the garbage bin in the big input flap on division smallclothes trash throwing opening, the upper cover is divided into firstly, the 2nd movable fulcrum, it establishes adjusting nut on the pull rod to link under the movable fulcrum, a drag hook of limiting in the pit, establish dustbin and ozone generator down on the platform, hydraulic lift mechanism is divided into to the platform down, hydraulic lift mechanism includes the fixed cover more than 4, establish the hydro -cylinder in each fixed cover, oil cylinder piston rod and pit contact, the hydro -cylinder cylinder body passes down the platform, lift side cylinder sells the 2nd movable fulcrum cooperation of son and upper cover, the waste material inductive head is divided into to the upper cover, establish on the platform down and promote hydro -cylinder and dustbin through drawing the round pin to fix mutually, make the dog down on the platform, the water level inductive head is established to platform below inner wall under lying in in the pit.					
5.	Hydraulic lifting/lowering type moveable underground refuse container	CN2571706	2003-09-10	QIN ANJUN	
The utility model relates to a moveable garbage container, which more specifically relates to a hydraulic lifting type moveable underground garbage container. A lifting device of the garbage container is arranged in a main body pit, and a tank body provided with a cart wheel is connected with the top end of the lifting device. The lifting device is provided with a hydraulic oil jack provided with a lifting platform, and the lifting platform is connected with a supporting frame. The tank body is provided with two cart wheels, and one end of the tank body is connected with a cart handle. The top part of the tank body is provided with a tank cover, and the front part and the tank cover of the tank body are provided with moving doors. The lower part of the lifting platform is connected with a quadrate frame, and the side faces of the frame are provided with pulleys. A pulley cable way is arranged on the side wall of the main body pit. The utility model has the advantages of reasonable design, simple structure, and convenient operation. The utility model solves the problems that the garbage container is a hindrance to see, and has secondary pollution. Meanwhile, the garbage container is also a garbage truck, the conveying is automotive and agile, and the garbage removal is convenient, quick, and sanitary. The degree of mechanization is enhanced, the labour intensity of cleaners is reduced, and the work efficiency is enhanced.					
6.	Hydraulic underground garbage box	CN201102771	2008-08-20	XINJIANG HONGJI HYDROPNEUMATIC MANUFACTURING	
The utility model relates to a hydraulic buried type garbage bin comprising an upper cover, a garbage bin and a foundation pit, an electric control system and a hydraulic system. The upper cover is equipped with a garbage throw-inlet and a lifting platform which is used to place the garbage bin and can vertically lift. The hydraulic system comprises an oil cylinder for platform lifting and an oil cylinder for opening and closing the upper cover. The bottom of the oil cylinder for platform lifting is fixedly positioned on the base at the lower part of the foundation pit and the top is connected with the lifting platform. One end of the oil cylinder for opening and closing the upper cover is fixedly positioned on the foundation pit and the other end is connected with the upper cover. A guiding device is positioned on the lifting platform. The upper cover comprises two cover plates which are folded and hinged mutually, one side of the upper cover is fixedly hinged to the top of the foundation pit and the other side is equipped with a sliding device. The electric control system is equipped with a signal transmission and receiving device. The hydraulic buried type garbage bin has the advantages of the simple structure, the low fabrication cost, the good stability, the safety and reliability, the convenient operation, using with the existing municipal refuse delivery vehicles, the small occupied area and being suitable for various places.					
7.	System for the balanced lifting and lowering of hydraulic platforms with underground container.	MX2017010372	2019-02-12	PLASTIC OMNIUM SYSTEMES URBAINS	
The present invention relates to a system for balanced lifting and lowering of hydraulic platforms with underground containers integrating a lift platform on which solid waste containers are supported and which is driven by hydraulic actuators. Said lifting platform being preferably rectangular and being housed in a cavity underground. It characterizes by comprising an underground containment structure that delimits said cavity defining four corner pillars that fix a lower perimeter frame and an upper perimeter frame and wherein each corner pillar, two partially spaced vertical zippers extending in their entire partially spaced vertical section extending throughout their longitudinal section with their teeth exposed to the interior of said cavity and orthogonal to each other are fixedly arranged. Also, is adapted to receive and engage with rotating pinions engaged at the ends of rotating arrows disposed of in the perimeter zone of the lower face of both long sides and both short sides of said lifting platform to keep it balanced during the raising and lowering.					
8.	Underground tank farm turnover drum device	CN209097478	2019-07-12	SHENZHEN STILL USED FOR ENVIRONMENTAL PROTECTION & TECHNOLOGY	
The present utility model discloses an underground tank farm turnover drum apparatus, underground tank farm turnover drum apparatus includes: a trash rack, bin support is provided with a top plate; bin, the bin is placed in the bin holder; flip barrel assembly, is fixed to the bin support face turned barrel means; a garbage can, garbage collection vessel is placed in the upper turned barrel means; wherein, the turning plate through a flip angle of the hydraulic lift can lift action control module. The present utility model provides a method for underground tank farm turnover drum means, may be placed directly on the transportation of debris on the inverting a person skilled in, through hydraulic lifting module such that the debris into a trash bin lifting action control flip angle; the transportation may be through a garbage can and the garbage can to those skilled in the fixing bracket is fixed to the posts so that the reversing plate through the hydraulic lift module such that the debris into a trash bin lifting action control flip angle.					

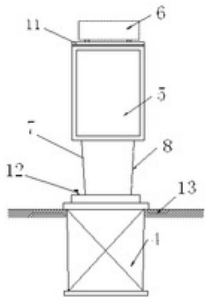
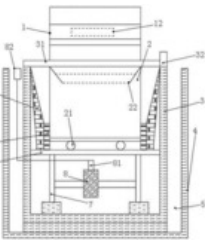
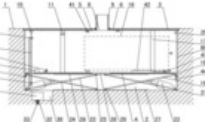
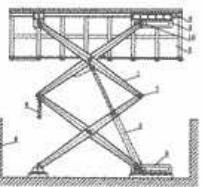
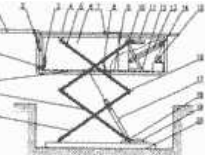
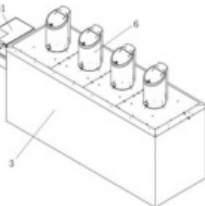
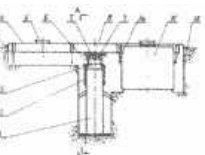
9.	Rotary lift-transporting type underground rubbish sealing storage device	CN2384909	2000-06-28	GUO XIULI	The utility model relates to a garbage storage and transportation device, comprising a rotary support bracket, a garbage box and a dump truck. The rotary support bracket forms a right angle through a support arm and a support leg to hinge a rotary center of circle, the support leg is hinged with the upper end of a hydraulic oil cylinder, and the post end of the hydraulic oil cylinder is hinged with a pit bottom ground base. The oil circuit of the hydraulic oil cylinder is connected with an oil pump of the truck through a quick joint. In the operating state, the garbage box is rotated to a carriage. The opening of the garbage box is provided with a sealing cover, and the cover is provided with a movable cover plate of a garbage inlet. The utility model has the advantages of simple structure, convenience operation and effective prevention of the environmental pollution. 
10.	Buried elevating-type environmentally-friendly dustbin	CN104163302	2014-11-26	CHEN JIANG	The invention discloses a buried elevating-type environmentally-friendly dustbin which comprises an outer box body. The top of the outer box body is provided with a bracket, and an elevating mechanism is fixed to the bracket. Supporting protruding strips are arranged on two inner side walls opposite to the outer box body respectively, and the inner side faces of the supporting protruding strips are provided with grooves. An inner cavity of the outer box body further contains an elevating platform connected with the elevating mechanism. The side face, opposite to the supporting protruding strips, of the elevating platform is provided with a first idler wheel set and a second idler wheel set. The rolling surface of the first idler wheel set and the rolling surface of the second idler wheel set abut against the left side face and the right side face of each supporting protruding strip in an attached mode respectively. A plurality of adjustable roll balls are further arranged on the side face of the elevating platform between the first idler wheel set and the second idler wheel set, and the rolling surfaces of the adjustable roll balls abut against the bottom faces of the grooves. A first containing box and a second containing box are arranged on the elevating platform, and the top of the first containing box and the top of the second containing box are provided with rubbish throwing boxes respectively, wherein the rubbish throwing boxes are communicated with corresponding inner cavities of the first containing box and the second containing box. The buried elevating-type environmentally-friendly dustbin solves the technical problem of an existing buried elevating-type dustbin. 
11.	Underground dustbin	CN206665415	2017-11-24	LI HU	The utility model relates to a rubbish launching equipmeng technical field is an underground dustbin, case was put in including the no end, the lift assembly, opening lifting box body and opening left buries the box ascendingly, the lifting box body suit buries the upper portion inboard of box on ground, and lifting box body and ground bury the box and relatively bury the lift assembly installation that the box reciprocated through the at least a set of lifting box body of enabling and be in the same place, lifting box body top surface periphery is equipped with the bottom surface and can follows by the spacing fender of seat on ground buries the box, be equipped with at least one rubbish whereabouts through -hole on lifting box body's the top surface, all be fixed with input of a no end case on corresponding every rubbish whereabouts through -hole location's the lifting box body top surface. The utility model discloses simple structure, convenient to use, clean pleasing to the eye, rubbish is all intensively down to put in the case and put in the smell of lapping that can effectively prevent to smell unpleasant that blocks through lifting box body, the no end and spill over, and then the emergence of avoiding flies to encircle and propagate the bacterium disease, the potential safety hazard eliminated. 
12.	Bury platform over -and -under type and collude arm dustbin	CN206954964	2018-02-02	KARAMAY CHENGYI TECHNOLOGY SERVICE	The utility model relates to a buried trash technical field is a bury platform over -and -under type and collude arm dustbin, it includes the tank tower, collude the arm dustbin, ground connection apron and take the lift platform that power drive goes up and down certainly, there is the tank tower at lift platform's upper end fixed mounting, at the built -in arm dustbin that colludes of tank tower, install the ground connection apron in the upper end of tank tower.The utility model has the advantages of reasonable and compact structure, convenient to use, can be with colluding in the middle of the arm dustbin buries the foundation ditch with arranging in, as buried garbage collection device through lift platform and tank tower, the volume that colludes the arm dustbin is compared in the reserves of garbage bin greatly, can the more rubbish of splendid attire, when clearing, can directly transport colluding the arm dustbin through colluding the arm car, it is more convenient to comparein the garbage bin, in addition though collude the arm dustbin and compare in rubbish station for a short time, colludes the arm dustbin and can carry out the short -distance transport through colluding the arm car, and the ten minutes is applicable to narrower cities and towns tunnel, and the practicality is strong. 
13.	Underground electric rubbish collection box	CN201193146	2009-02-11	MA CHUNHAI	The utility model is an underground electric garbage collection bin which is characterized in that the underground electric garbage collection bin comprises a garbage bin body (3), a hoisting device, and a garbage bin cap (1). The hoisting device is arranged at the bottom of the garbage bin body. The hoisting device is a shear type electro-hydraulic elevator with an elevating platform (4). The garbage bin body and the hoisting device are both arranged in the pit under the ground. The garbage bin cap (1) is covered on the garbage bin body. The underground electric garbage collection bin can be arranged at anywhere, such as open place, wall place, wall corner and so on, does not occupy space position or influence urban beauty. Since the pit is provided with a water-blocking wall 6 and a water filtrating inclined plane 2 which are higher than the ground, the pit may not be moistened by rainwater. The bottom surface in the garbage bin is an inclined plane which is convenient for cleaning up the garbage. The underground electric garbage collection bin has simple structure, is easy to be installed, and has low cost and strong applicability. 

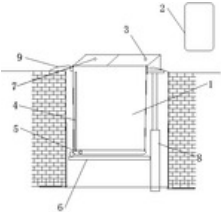
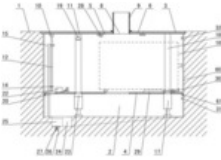
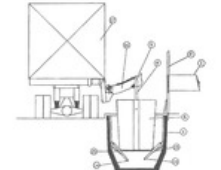
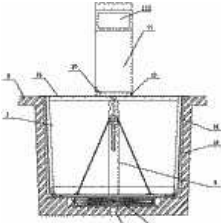
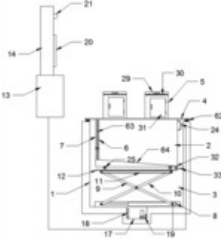
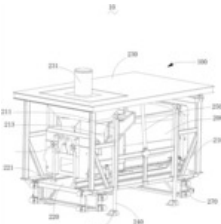
14.	Underground self-dumping type garbage container CN203544836	2014-04-16	ZHU SHAOLIN	The utility model provides an underground self-dumping type garbage container, which comprises a container cover (12), a garbage can (9), a bracket (8) and a garbage can-lifting mechanism, the garbage can-lifting mechanism comprises a hydraulic unit, a guide rail system and guide wheels (7), the track system comprises two groups of lower guide rails (4), middle guide rails (5) and upper guide rails (6), the lower guide rails (4) are mounted on an underground wall, the hydraulic unit comprises a lifting cylinder (2) controlled by a hydraulic station (1), the hydraulic station (1) controls the lifting cylinder (2) to drive the upper guide rails (6) and the bracket (8) to move up and down by means of chains (3), and the container is also provided with an automatic garbage can dumping mechanism. The utility model can hide the garbage can underground, and under the control of the hydraulic system, the underground self-dumping type garbage container can lift and put down the garbage can and automatically dump garbage into the filling bucket of a garbage transfer truck.	
15.	Bury formula environmental protection waste collection device multichannel hydraulic control CN208292015	2018-12-28	XINJIANG HONGSHENG YULIAN ENVIRONMENTAL PROTECTION EQUIPMENT	The utility model provides a bury formula environmental protection waste collection device multichannel hydraulic control, the device is by multichannel hydraulic transmission system, from upset rubbish dispensing system, lift platform balanced system and control system constitute, utilize the work of one set of hydraulic power unit control multichannel pneumatic cylinder, control respectively andopen and shut from upset input case, open and shut and the lift platform lift from the ground lid that overturns, utilize infrared inductor control to put in automatic the the opening and shutting ofthe lid of upset certainly of case from the upset, balance when utilizing the lift slide structure to keep the platform to go up and down, the difficult problem because of the unbalanced platform that leads to of rubbish weight in the box rocks and inclines has been overcome, from the use that the garbage storing compression box body of current various specifications can be matchd to the ground lid structure of overturning, set up and to save the limited ground space in city in buried equipment and maintenance room.Compare present ground and bury formula waste collection device, this devicehave simple structure, cost lower, be convenient for safeguard the clearance, seal tight, clean environmental protection, degree of automation is higher, save manual work and the high advantage of operating efficiency.	
16.	Intelligence ground following formula express packaging collection box CN208345019	2019-01-08	EAST CHINA INSTITUTE OF TECHNOLOGY	The utility model provides an intelligence ground following formula express packaging collection box, is including setting up the secret elevating platform in the pit, and the elevating platform top is equipped with hydraulic lifting columns and the case of depositing that is used for depositing express packaging underground, is equipped with the ground lifting platform on hydraulic lifting columns's top, and the upper end of ground lifting platform is equipped with puts in mouthful, and the lower extreme of ground lifting platform is connected with transition storage device, still is equipped with hoisting control device at the pit edge. The utility model discloses can solve present express packaging recovery efficiency and hang down, waste time and energy, the big scheduling problem ofunderground space is cleared up frequently, is occupy to the express packaging collection box.	
17.	Underground rubbish bin available for recovering batteries CN202440033	2012-09-19	HEBEI UNIVERSITY OF SCIENCE & TECHNOLOGY	The utility model relates to the field of rubbish treatment and particularly relates to an underground rubbish bin available for recovering batteries. The underground rubbish bin comprises a rubbish bin body, a rubbish bin cover and a hydraulic lifting device, wherein the hydraulic lifting device is positioned at one side of the rubbish bin body; the rubbish bin cover is arranged at the upper part of the rubbish bin body; the rubbish bin body is positioned under the ground; the rubbish bin cover is provided with a waste battery collection box; and after the rubbish bin is filled full with household rubbish, the rubbish bin and the rubbish bin cover are simultaneously lifted up by the hydraulic lifting device and loaded onto a transport vehicle so as to be carried away. The rubbish bin is an underground rubbish bin available for recovering batteries, thus being sanitary, environmentally-friendly and capable of maintaining the beautiful ground environment, individually collecting and treating waste batteries, and reducing the environment pollution.	
18.	Classification type hydraulic lifting buried dustbin CN204399894	2015-06-17	CHANGJI SANJILONG SANITATION EQUIPMENT	The utility model discloses a classification type hydraulic lifting buried dustbin. The classification type hydraulic lifting buried dustbin comprises a bin body, a separating plate is arranged inside the bin body and divides the bin body into a recoverable garbage part and an unrecoverable garbage part, a slider is arranged on the separating plate, and a horizontal slideway matched with the slider is arranged inside the bin body; the bottom of the bin body is provided with a base, the bin body is arranged on the base, and the front end of the bottom of the bin body is hinged to the base; the rear of the bin body is provided with a hydraulic lifting device, one end of the hydraulic lifting device is fixed underground, the other end of the hydraulic lifting device is arranged at the rear end of the top of the bin body, and the hydraulic lifting device is provided with a control switch which is arranged on the bin body. The classification type hydraulic lifting buried dustbin has the advantages of being simple in structure, capable of conveniently lifting the dustbin up and down and moving in position accurately even at night, convenient to use and long in service life.	
19.	System and method for underground storage and enhancement WO2013/050995	2013-04-11	DOTAN	A system and a method for storage of one or more loads below ground level using a suspension assembly such as cables, and a hoisting mechanism for winding the cables. Both the suspension assembly and the hoisting mechanism are disposed below ground level. A platform has a platform surface at the top and a platform structure there below, to which the cables of the suspension assembly are coupled. The platform, which is configured to support the load platform surface, hangs on the cables of the suspension assembly. The hoisting mechanism is coupled to the suspension assembly and is configured to lift the platform surface to ground level and to lower the load into underground storage. The suspension assembly may support more than one platform. The underground storage has either a lid closeable and openable in association with the lifting and lowering of the platform or a fixed lid.	
20.	Machine complex for the underground collection of solid household trash RU88003	2009-10-27		The declared utility model relates down the region of housing and utilities economy and is intended for the collection of solid household trash (T5O), first of all due to the urban conditions. Machine complex for the underground collection of solid household trash (T5O) consists of stationary airtight underground camera with the hatchway of the maintenance, detachable press -[kompaktora], lift for the installation and the lift (lowering) press -[kompaktora], that includes the roof with the loader, connected by counters with the base, and also the hydraulic cylinders of lift and hydro-electric power station. The roof of lift and the hydraulic cylinders of lift are executed before the detachable performance and are equipped for the sake of load-gripping adaptations. Complex is also equipped for the sake of the system of emergency autonomous lift, for the sake of the signaling systems of lift and emergency light. As version, the hatchway of maintenance is combined with the device of load, and the base of lift is equipped for the sake of the device of fixation press -[kompaktora]. 4 [PPF]. [II].4.	

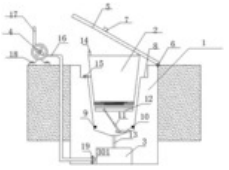
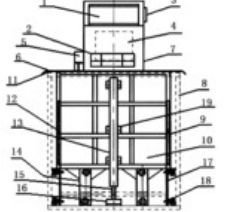
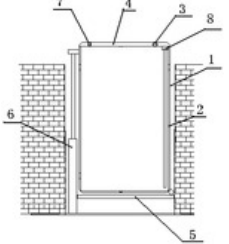
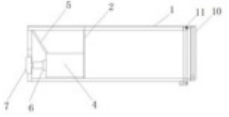
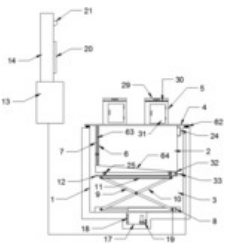
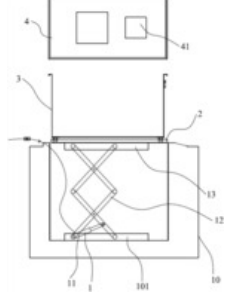
21.	Lifting type underground garbage containing apparatus	CN2605231	2004-03-03	ZHANG ZHIGUO	The utility model discloses a lifting underground garbage collecting device, being composed of a controlling holder, a garbage collecting chamber, the bottom of which is provided with a elevating platform on which is positioned a trash can on the cover of which is positioned a treading opening device that controls on and off of the tegillum of garbage entrance, a supporting column between the elevating platform and the cover of trash can, and a hydraulic system with a electric motor which is connected with a high voltage gear pump through couplings while is connected with multi-channel valve blocks through high voltage oil pipes that connect the multi-channel valve blocks with an oil cylinder on the elevating platform which is connected with a control cabinet through the high voltage oil pipe that controls the elevating platform through the hydraulic system. This utility model, being suitable for arrangement on the producing unit that holds a large amount of garbage or holds special garbage according to the national limitation, is characterized in that the cabinet body is underground in collecting and storing garbage while the trash can is lifted aboveground through the hydraulic system in transporting and the device is used matching with lateral loading garbage truck though hooks on one side on the trash can, and has the advantage of a high automation and a convenient collection and transportation.	
22.	Underground hydraulic system of urban waste reservoir, has tray with concrete receiver, reinforced with metallic central strand, smooth with land, where tray lodges elevation platform in interior, and platform has two structures	ES2289840	2008-02-01	ALBATROS PROMOTORA EMPRESARIAL	The hydraulic system has a tray with a concrete receiver, reinforced with metallic central strand, smooth with a land. The tray lodges an elevation platform in the interior. The platform has two structures, where one is fixed and other is moving, which supports multiple containers from two to four. The structures are driven by means of hydraulic cylinders and absorption forks of lateral stress. A mailbox is located on the surface of the movable structure for storing the waste. The hydraulic system is integrated to an underground container or designed to drive from outside.	
23.	Underground type garbage can	CN206172297	2017-05-17	GUO CHENGYONG	The utility model relates to a sanitation equipment technical field is an underground type garbage can, and it includes the foundation ditch, is equipped with lifting box body in the foundation ditch, and lifting box body's inside is equipped with the garbage bin, and lifting box body's top is equipped with the apron, is equipped with rubbish on the apron and puts in the cover, and is equipped with infrared emitter and infrared receiver on the lifting box body inner wall of the corresponding height of garbage bin upper end opening, and rubbish is put in to cover and is equipped with controller and alarm. The utility model discloses infrared emitter and infrared receiver have been set up on lifting box body's inner wall, whether be used for detecting the garbage bin fills with , the garbage bin reports to the police when filling with, avoid the rubbish in the garbage bin to spill over, trickle down in lifting box body or foundation ditch, keep the clean clean and tidy of lifting box body and foundation ditch, ensure to lift the smooth working of unit, the staff hears that can allocate garbage clearance truck after the warning in time clears, improve the accuracy that rubbish was cleared, the promptness, and then the productivity effect of promotion environmental protection enterprise.	
24.	Rack and pinion promotes formula buried trash	CN208086550	2018-11-13	KARAMAY CHENGYI TECHNOLOGY SERVICE	The utility model relates to a buried trash technical field is a rack and pinion promotes formula buried trash, it includes foundation ditch frame, supporting leg rack, fixed rack, pinion stand, transmitting gear and direction slider, the foundation ditch frame embeds has moving platform, and both sides are fixed with supporting leg rack respectively around moving platform, and moving platform passes through supporting leg rack and sits in foundation ditch rest base portion, the symmetry is fixed with the fixed rack that extends to foundation ditch frame top around in the foundation ditch frame. The utility model has the advantages of reasonable and compact structure, convenient to use, through hydraulic motor outputting rotary power, when drive transmitting gear is rotatory, drive movingplatform along fixed rack rebound, go up rubbish with moving platform and fight and rise to subaerially from the foundation ditch, clear up, compare in traditional folding expansion bracket lift removal of passing through, this buried trash's volume is littler, weight is lighter, and it is more convenient to convey in sections, and required foundation ditch is littler, and use cost is lower.	
25.	Underground dustbin	CN104210789	2014-12-17	WUXI JINDANG MACHINERY FACTORY	The invention relates to an underground dustbin which comprises a dustbin body, a dustbin cover and a hydraulic lifting device. The hydraulic lifting device is located on one side of the garbage dustbin body, the dustbin cover is arranged on the dustbin body, the dustbin body is located underground, a waste battery collecting box is arranged on the upper side of the dustbin cover, and after the dustbin is full of household waste, the hydraulic lifting device lifts the dustbin body and the dustbin cover at the same time and loads the dustbin body and the dustbin cover on a transport vehicle for transportation. By means of the dustbin, hygiene and environment protection are achieved, ground environments keep beautiful, and waste batteries are independently collected and treated so as to reduce environment pollution.	
26.	Subside formula rubbish hutch	CN208453676	2019-02-01	GUANGZHOU PEAKWAY ENVIRONMENTAL PROTECTION TECHNOLOGY	The utility model discloses a subside formula rubbish hutch, including the rubbish hutch, the rubbish hutch is equipped with rubbish and puts in mouthful, and subside formula rubbish hutch still includes lifting unit, and lifting unit includes lift platform, cuts fork roof beam and hydraulic cylinder, and the rubbish hutch is installed in lift platform, cuts fork roof beam and hydraulic cylinder and is connected with lift platform, and hydraulic cylinder makes the rubbish hutch go up and down so that accept in the pit on ground, and rubbish input mouth stretches out the pit and is located morethan the ground. Subside formula rubbish hutch sets up in the pit of ground, and buried temperature is lower, and rubbish is difficult smelly, and, set up underground, can not occupy the ground space, also avoided influencing the pleasing to the eye of all ring edge borders. The pedestrian can't see rubbish, the peculiar smell does not leak, the cockroach mouse can not subside, from taking compression function, need not transportation every day, significantly reduce every day with the rubbish cost of transportation.	
27.	Lift pit formula dustbin	CN204660510	2015-09-23	ZHANG DAICHUAN	the utility model relates to a dustbin technical field is a lift pit formula dustbin, it includes secret fixed frame, inside panel frame, longitudinal rail, wheel carrier, leading wheel and input case, fixed frame's inside spacer sleeve is equipped with the inside panel frame that can go up and down underground, and the inside panel frame includes the platform at top and the frame of lower part, the platform fix the frame top and frame inside between form the garbage bin and place the chamber. The utility model has the advantages of reasonable and compact structure, convenient to use, the inside panel frame is rising to rise or is falling the in -process after rise, through moving inside panel frame direction in a left side, back and right three orientation, forms 3 balanced state to the inside panel frame, guarantees inside panel frame the force balance, makes the lift of inside panel frame can be steadily in the same direction as smooth, and the reliability is high, on the basis of satisfying the load -lifting height demand, the longitudinal rail reduces to corrode in can arranging secret fixed frame completely in, improves life simultaneously. (B.)	
28.	Bury formula lift garbage bin	CN204776972	2015-11-18	FUJIAN KEERNY ENVIRONMENTAL PROTECTION TECHNOLOGIC	The utility model relates to a garbage bin technical field discloses a bury formula lift garbage bin, including dustbin, electric cabinet, frame, garbage bin and elevating gear, the frame is buried underground and is exposed on the earth's surface in ground and its upper portion, and the frame that is located earth's surface upper portion is the upper portion space, and the frame that is located the earth's surface lower part is the lower part space, dustbin and electric cabinet are installed on the frame, elevating gear installs in the space of lower part, on elevating gear is located to the garbage bin, just the garbage bin is corresponding with the dustbin, it puts in the mouth to be equipped with rubbish on the dustbin, rubbish is put in a mouthful department and is installed the input door. The utility model discloses a lift garbage bin of the formula of burying, effectually overcome the shortcoming that occupation space, peculiar smell volatilize and attract the fly worm.	

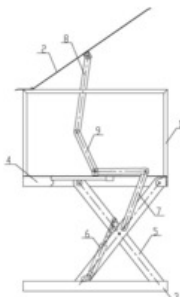
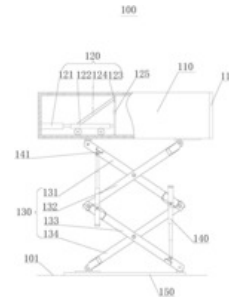
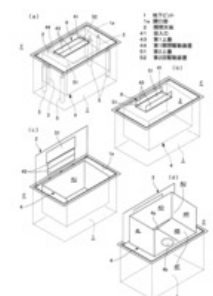
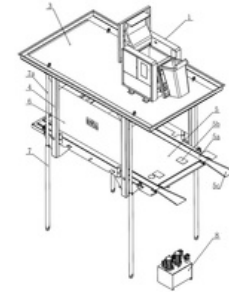
29.	Bury formula solar energy dustbin	CN205397096	2016-07-27	DEZHOU QUNFENG MACHINERY MANUFACTURING	Bury formula solar energy dustbin, including a plurality of grounds box, underground box and solar panel, the underground box comprises outer box and movable's inlayer box, the inlayer box is arranged in inside the outer box, outer box both sides set up hydraulic lift mechanism respectively, hydraulic lift mechanism is fixed underground, hydraulic lift mechanism's piston rod links to each other with outer box, the inside infrared ray sensor that sets up of inlayer box, the last liquid level switches screen that sets up of solar panel, liquid level indicator panel links to each other with the inside infrared ray sensor of inlayer box. The utility model discloses device power is supplied power by solar energy, does not need external power supply, itself has just practiced thrift a large amount of charges of electricity, and is safe energy -conserving pollution - free, descend the box to comprise outer box and portable inlayer box simultaneously, the transportation of being convenient for, greatly reduced staff's intensity of labour. 
30.	Float stepping in-out storehouse mechanism	CN2575049	2003-09-24	TIANQI LOGISTICS SYSTEM ENGINEERING	The utility model provides an underground dustbin capable of being lifting and descending. The problem to be solved is that the present dustbin in a city is placed on the ground, pollute the environment and effects the beauty, and people are always troubled. The utility model is characterized in that the top of a frame of the dustbin is provided with a turning plate type refuse entrance, and a baffle plate is arranged in the frame of the dustbin, a drawer type dustbin without a bottom is arranged on the baffle plate; the rear of the dustbin is provided with a push plate of which the rear is provided with four connecting rods which are connected; other two ends of the four connecting rods are fixed on the frame and on a piston of a hydraulic cylinder respectively; an underground pool which can contain the frame is arranged under the frame of the dustbin. When the frame of the dustbin falls into the underground pool, the frame top of the dustbin has the same level as the ground; the bottom of the underground pool is provided with a hydraulic lifting and descending system which controls the lifting and descending of the frame of the dustbin. The utility model has the advantages that the dustbin is placed underground for solving the pollution problem, beautifying the environment and improving work efficiency, and is suitable for being used in a city. 
31.	Dustbin buried underground	CN104709633	2015-06-17	CHENGDU GUANYU SCIENCE & TECHNOLOGY	The invention discloses a dustbin buried underground. The dustbin comprises an outer box which is buried underground, a hydraulic pushing rod driven by a hydraulic pump is arranged in the outer box, an inner box is connected to the hydraulic pushing rod, a dustbin body is arranged in the inner box in a sliding connection mode, two dustbin bases which are movably connected are arranged at the bottom of the dustbin body, a cover plate is further connected to the inner box, the opening of the outer box can be covered with the cover plate in a sealed mode, a filter is further arranged on one side of the outer box, and a gas exhauster is arranged at the bottom of the outer box and connected with the filter through a gas exhausting pipe. The dustbin is simple in structure and convenient to use, the dustbin body can be sealed underground so that the phenomenon that harmful gas emitted by rubbish is spread into air can be reduced, the filter can be utilized for purifying and filtering the volatile harmful gas, and therefore harm of the harmful gas is further reduced. 
32.	Portable buried trash goes up and down	CN208326323	2019-01-04	KARAMAY CHENGYI TECHNOLOGY SERVICE	The utility model relates to a city sanitation equipment technical field, a portable buried trash goes up and down, which comprises a base plate, lift platform, cut the fork arm, dead lever and garbage storehouse, it organizes and is the X -shaped and cuts the fork arm to be equipped with four between bottom plate upper end and the lift platform lower extreme, what be located bottom plate upper end left part front side cuts the fork arm for cutting a fork pole, it includes an articulated initiative pole and the driven pole together in middle part to cut a fork pole, an initiative pole positionin the place ahead of a driven pole, the lower extreme of a driven pole is together articulated with the bottom plate. The utility model discloses rational in infrastructure, convenient to use is inthe current foundation ditch of packing the bottom plate into to the present garbage boat of packing into on the translation car in garbage storehouse makes the garbage boat keep apart with external,cut the fork arm through the pneumatic cylinder promotion, make the ascending in -process of lift platform keep horizontal state to improve stability, make garbage boat translation on the tow chain goout garbage storehouse through hydraulic motor, have clean, reliable and stable characteristics, can also alleviate the working strength of sanitation workers people when clearing up. 
33.	Machine complex for the underground collection of solid household trash	RU81174	2009-03-10		The declared utility model relates down the region of housing and utilities economy and is intended for the collection of solid household trash (TEO), first of all due to the urban conditions. Machine complex for the underground collection of solid household trash consists of underground camera with the loading unit, detachable container with the device of the displacement of withdrawals, device of the vertical lift- lowering of container and system of drive by the devices of the displacement of withdrawals and lift of container. The device of the displacement of withdrawals is executed in the form the separate block, stationarily established before the underground camera, and is equipped for the sake of adapter for connection for the sake of the detachable container. The device of the displacement of withdrawals is located in the upper part of the underground camera with the inclination with respect to the container, and it is also equipped for the sake of control system of its filling by withdrawals, which is, in turn, connected for the sake of the system of the drive of the device of the displacement of withdrawals. The device of the vertical lift- lowering of container is equipped for the sake of hydraulic drive with the remote control. As version loading unit, device of the displacement of withdrawals and container are executed before the sectional performance and ensure the separate collection not less 3rd forms of solid household trash. 4 [PPF]. [II].4. 
34.	Liftable underground refuse tank	CN201209057	2009-03-18	LÜ ZHIMIN	The utility model relates to an elevating underground dustbin which belongs to the technical field of public hygienic facilities and comprises a dustbin body, an elevating mechanism and a dumping mechanism, wherein the dustbin body is mounted in an elevating frame of the elevating mechanism through the dumping mechanism, and the elevating mechanism comprises underground fixed elevating guide channels, the elevating frame, elevating guide wheels, a driving mechanism and a transmission mechanism; the elevating guide channels are respectively mounted at side walls of a cellar corresponding to the position of the elevating frame, and the dustbin body can be put in the cellar; the elevating guide wheels are respectively fixed in the elevating guide channels, the driving mechanism is connected with the elevating frame through the transmission mechanism, and a control switch of the driving mechanism is arranged on the ground. Because the utility model adopts the hydraulic elevating mechanism, the dustbin body can be enabled to hoist up the ground only by treading the control switch with the foot so as to have convenient operation and decrease the cost. The elevating underground dustbin is mounted underground and is in an embedded sliding-groove sliding-wheel elevating structure so as to occupy small underground space, and only a garbage inlet is bared on the ground so as to occupy small space and enable the environment to be sanitary and clean. 

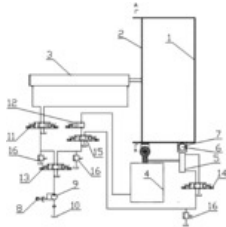
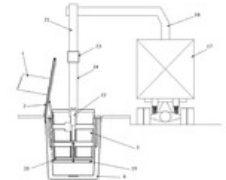
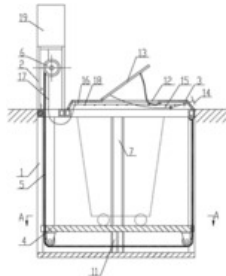
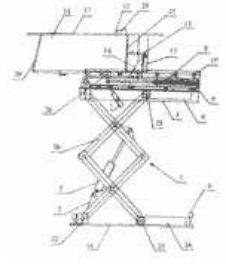
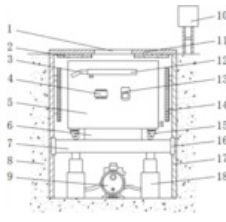
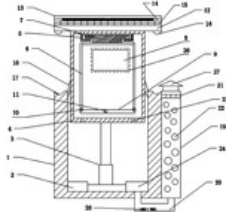
35.	Embedded lift-type classification dustbin with advertising function	CN102963643	2013-03-13	CHEN JIANG	The invention discloses an embedded lift-type classification dustbin with an advertising function. The dustbin is characterized by comprising a lift mechanism, wherein a first waste container and a second waste container are arranged on two sides of the lift mechanism respectively, a lift bracket connected to the lift mechanism is arranged at the bottoms of the first waste container and the second waste container, an advertising lamp box is arranged above the lift mechanism, a solar panel is installed above the advertising lamp box, the power output end of the solar panel is connected to the power input end of the advertising lamp box, and a flashing board is arranged between the solar panel and the advertising lamp box. The embedded lift-type classification dustbin with the advertising function, provided by the invention, is designed in accordance with an eco-friendly idea, is rain-proof, unique in modeling, convenient for collecting wastes and suitable to be popularized and used in cities and towns with dense population, and has a wide application prospect.	
36.	Elevating mechanism hydraulic system for dustbin	CN201395379	2010-02-03	FANG SONGBO	The utility model provides an elevating mechanism hydraulic system for a dustbin, which comprises a hydraulic pump, a lift cylinder, a reversing valve, an oil tank and a balance valve, wherein the hydraulic pump is connected with the reversing valve through an oil pipe, the reversing valve is connected with the lift cylinder through the oil pipe, one end of the balance valve is connected with the rodless cavity of the lift cylinder, the other end thereof is connected with the reversing valve, the control end of the balance valve is connected with the rod chamber of the lift cylinder, the oil inlet end of the hydraulic pump is connected with an oil filter, the oil inlet end of the oil filter is connected with the oil tank, and the reversing valve is connected with the oil tank through the oil pipe. If the oil pipe connected with the rodless cavity leaks or cracks, and the piston of the oil cylinder slides downward, because the control end of the balance valve and the rod chamber of the lift cylinder are connected, the balance valve is to be closed, which results in the stopping of the lift cylinder movement; because the lift cylinder lends a support for the dustbin connected therewith, the dustbin is not subject to slide downward or collapse suddenly, thereby ensuring the safety of the equipment as well as the staff, and the utility model has the advantages of safe and reliable working as well as simple structure.	
37.	Multi-hydraulic-cylinder lifting type buried garbage can	CN203845278	2014-09-24	CHANGJI SANJILONG SANITATION EQUIPMENT	The utility model discloses a multi-hydraulic-cylinder lifting type buried garbage can and belongs to the field of environmental sanitation machine application. Multiple hydraulic cylinders are used to jointly lift a bracket platform so as to ascend and descend the garbage can in a ground pit. During joint ascending or descending performed by the multiple hydraulic cylinders, a guide structure with simple slideways and sliders is used, so that manufacturing cost of the garbage can is lowered directly. The bracket platform is placed in an integral outer garbage can body with an upper opening, the outer garbage can body is of a box shape, and the edge of the outer garbage can body is hinged to the edge of a garbage can cover. During mounting of the garbage can, the garbage can only needs to be integrally hung in the ground pit dug in advance, and mounting cost of the garbage can is lowered. The garbage can is simple in structure, low in cost, easy to machine and produce and convenient to mount and use, and massive popularization and application are facilitated.	

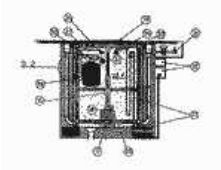
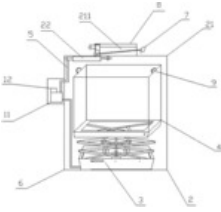
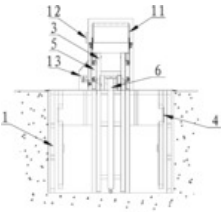
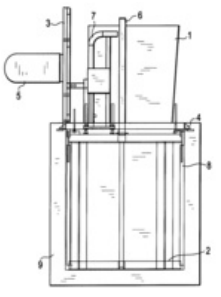
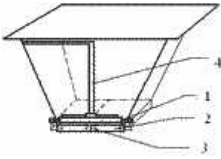
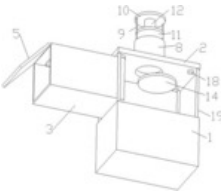
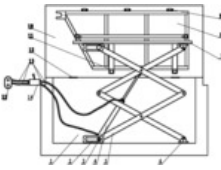
40.	Underground lifting type classification dustbin with advertisement	CN203094865	2013-07-31	CHEN JIANG	The utility model discloses a underground lifting type classification dustbin with advertisement, which comprises a lifting mechanism, wherein a first garbage box and a second garbage box are respectively arranged on the two sides of the lifting mechanism, a lifting support which is connected with the lifting mechanism is arranged on the bottom portions of the first garbage box and the second garbage box, an advertisement lamp box is further arranged above the lifting mechanism, a solar cell panel is arranged above the advertisement lamp box, a power output end of the solar cell panel is connected with a power inlet end of the advertisement lamp box, and a rainproof board is further arranged between the solar cell panel and the advertisement lamp box. The underground lifting type classification dustbin with the advertisement has ecological environmental protection classification concept, is unique in modeling, conveniently collects garbage and uses, prevents rainwater, is suitable for popularization and use in densely populated areas of urban villages and towns, and has excellent application prospect.	
41.	Large-capacity underground portable environmental waste bin	CN109896204	2019-06-18	SICHUAN LVYE TECHNOLOGY	A large-capacity underground portable environment-bin, characterized in, feed me structure includes upper and lower interfaces of the trash, garbage can is provided for in the caisson, loaded with a caisson caisson fixing collar, the reinforcing ring is provided between the caisson and the caisson cavity; caisson located at the bottom of lifting arms, hydraulic cylinders connected to lifting arms raised; L connected to the top lifting arms lift platform, the platform is provided with a dustbin; are provided for fixing the location of the bin lifting platform block stage; lift both sides provided with the elastic barrier film, an elastic barrier film other end connected to the top wall caisson; hydraulic cylinder is provided with a 1st 2nd high-pressure quick adapters and hyperbaric rapid transition joint. The present invention to reduce operational and maintenance costs of the buried trash, ensure proper operation of the buried trash bin, the waste buried trash bin to ensure stability of stored.	
42.	Concealed connecting rod intersecting type hydraulic ascending and descending rubbish transfer box	CN106586339	2017-04-26	ZHANG XIANCHI	A concealed connecting rod intersecting type hydraulic ascending and descending rubbish transfer box is characterized in that a pit is dug in the ground; an upper cover and a lower platform are arranged in the pit; a large rubbish inlet is formed in the upper cover, and a large inlet cover is arranged in the large rubbish inlet; the front side or the rear side of the large inlet cover is connected with the upper cover in an overturning mode through hinges; a small rubbish inlet is formed in the large inlet cover, and a rubbish can is arranged on the small rubbish inlet; the lower portion of the upper cover is provided with first movable pivot points and second movable pivot point; the lower portions of the first movable pivot points are connected with pull rods which are provided with adjusting nuts; limiting hooks are arranged in the pit; the rubbish can, an ozone generator and four or more push rods are arranged on the lower platform; the push rods on the left side are connected with the second movable pivot points; hydraulic ascending and descending mechanisms are arranged below the lower platform and comprise third movable pivot points connected with upper connecting rods; the other ends of the upper connecting rods are connected with lower rolling wheels; fourth movable pivot points are arranged in the pit and connected with lower connecting rods and oil cylinders through swivel pins; the other ends of the lower connecting rods are connected with upper rolling wheels; a waste inductor is arranged on the lower portion of the upper cover; push oil cylinders are arranged on the lower platform; piston rods of the push oil cylinders are fixed to the rubbish can through pull pins; and the inner wall of the pit is provided with a water level inductor.	
43.	Drive elevating mechanism for hydraulic ground-buried dustbin	CN201395378	2010-02-03	FANG SONGBO	The utility model provides a drive elevating mechanism for a hydraulic ground-buried dustbin, which comprises a connecting rod, a lift cylinder, an upper horizontal moving groove, a lower horizontal moving groove, a dustbin body, and a starting oil cylinder, wherein one connecting rod at the lower part of the link mechanism is fixedly hinged to bottom part of one side of the pot hole, the other connecting rod at the lower part of the link mechanism is hinged with a moving block in the lower horizontal moving groove fixed on the other side at the bottom part of the pothole, one end of the liftcylinder is hinged with the moving block in the lower horizontal moving groove, the other end of the lift cylinder is hinged to a connecting rod or an articulated axle at the upper part of the link mechanism, the upper end of the connecting rod is hinged with the moving block on the upper horizontal moving groove fixed to the back upper part of the side plate of the dustbin body, the upper end of the other connecting rod on the upper part thereof is hinged with the front upper part of the side plate of the dustbin, and the starting oil cylinder is hinged movably with a connecting rod. The starting of the elevating mechanism is smooth, which reduces the labor intensity of the worker. Moreover, the utility model has the advantages of simple structure and convenient maintenance.	
44.	Hydraulic buried garbage can	CN2923594	2007-07-18	GUANGDA INDUSTRY TRADE	This utility model relates to a hydraulic buried dustbin, which comprises a box body (14), a connection rod structure (16), a hydraulic system (15), an electric control system and an underground pit groove (20). A box gate locking cylinder (3) and a box gate open-and-close cylinder (2) are hinged on the front of the side plate (6) of the box body (14) and a pushing plate cylinder (13) is hinged on the back of the box body (14). A photoelectric sensor which is connected with the PLC in the electric control system is arranged besides the garbage entry (7) on the top plate (4). The connection rod (21) is hinged on the bottom of the pit groove (20), and the connection rod (22) and one end of the lifting cylinder (17) are hinged with the moving blocks (18) of the lower horizontal moving groove (19) respectively. The other end of the lifting cylinder (17) is hinged on the connection rod (8), the top of which is hinged with the moving block (10) of the upper horizontal moving groove (11). The top of the connection rod (5) is hinged on the front upper side of the side plate (6) of the box body (14). This utility model is characterized by strong synchrony, low failure rate, well stability and low depth of the pit groove.	
45.	Landscape underground barrel garbage collection device	CN109733766	2019-05-10	SHENZHEN MAIRUI MEITE ENVIRONMENTAL TECHNOLOGY	The present invention discloses a garbage collection tank underground landscape device, which belongs to the field of garbage collection device technology. Includes a lifting frame, a loading platform, the platform floor, investment feeder, a power shaft, the chute, a hydraulic system, electrical control system, the mounting attachment, such as dry wells and the concrete foundation. Investment feeder, comprising an inner tub, the tub ring, fixed ring feed port, and a door assembly according to investment feeder mount, the inner tub, tub ring mounted concentrically on the investment feeder mount, and an electric control system is placed in a power hydraulic pump stations in the well, with the drainage well placed in a cement base beside the power shaft; mounted on the lifting frame hydraulic cylinder, hydraulic cylinder through a tubing connected to a hydraulic pump station, the load bearing platform is raised to be flush with the ground in charge of the hydraulic cylinder, for pushing out the trash can, load-bearing platform 1100 L standard trash can be placed 660 L or, put into the waste hopper for receiving the projection.	
46.	Rotary underground totally-enclosed garbage bin	CN2320591	1999-05-26	LIN FENGJIE	The utility model relates to a rotary underground full closed refuse box. A rotary device with gears is positioned on the end of a hydraulic lifting device which is positioned in a ground groove. A rotary guide rail is positioned on the upper side of the rotary device. A hanging beam is positioned on the rotary guide rail. Hanging chains which are used for hanging a refuse box body which is positioned in the ground groove are respectively arranged on both arms of the hanging beam. A sealing cover is arranged on the upper side of the hanging beam. The utility model has the advantages of simple structure, low manufacture cost, hygiene, and convenient operation.	

47.	Classification buried dustbin intelligent control system	CN204399868	2015-06-17	CHANGJI SANJILONG SANITATION EQUIPMENT	
The utility model discloses a classification buried dustbin intelligent control system. The classification buried dustbin intelligent control system comprises a bin body, the bin body is communicated with a remote computer server and provided with a GPS (global positioning system) positioning device, and a garbage level sensor can sense the height of garbage inside the bin body and communicated with the remote computer server through a controller; the bottom of the bin body is provided with a base, the bin body is arranged on the base, the bottom front end of the bin body is hinged to the base, the rear of the bin body is provided with a hydraulic lifting device, one end of the hydraulic lifting device is fixed underground, the other end of the hydraulic lifting device is fixed at the rear end of the top of the bin body, and the hydraulic lifting device is provided with a control switch. The classification buried dustbin intelligent control system has the advantages of being simple in structure, capable of timely grasping whether a dustbin is fully filled to facilitate cleaning and to improve the working efficiency, capable of conveniently lifting up and dumping the dustbin and moving to the position of the dustbin accurately even at night, convenient to use and long in service life.					
48.	Bury formula refuse collection station	CN207903248	2018-09-25	YUCHAI SPECIAL PURPOSE VEHICLE	
The utility model discloses a bury formula refuse collection station, it includes: rubbish barrel groove, its concave underground of locating, this rubbish barrel groove's upper end is provided with the opening, lift platform, its mode in order going up and down set up in go up and down in the rubbish barrel groove and by elevating system drive, garbage bin, at least one this garbage bin set up inlift platform is last, the top cap, its lid is located rubbish barrel groove's upper end opening part, rubbish feeding tank, in every on the top cap the top of garbage bin is provided with this rubbish feeding tank, and every this rubbish feeding tank's inner chamber is rather than the correspondence the inner chamber of garbage bin communicates with each other, and every this rubbish feeding tank is provided with a dog -house, the weighing device, it is used for measuring rubbish weight in the garbage bin. The utility model discloses can measure the rubbish weight in the garbage bin throughthe weighing device to the convenience in time takes measures to avoid overweight, thereby buries the life of formula dustbin with guaranteeing.					
49.	Hidden multi-column type hydraulic lifting garbage transferring box	CN106586340	2017-04-26	ZHANG HUANGHUI	
A hidden multi-column type hydraulic lifting garbage transferring box is characterized in that a pit is formed in the ground; a support is arranged at the bottom of the pit; an upper cover and a lower platform are arranged in the pit; a large garbage throw-in port is formed in the upper cover and is internally provided with a large throw-in port cover; the front side or the rear side of the large throw-in port cover is connected with the upper cover in an overturning manner through a hinge; a small garbage throw-in port is formed in the large throw-in port cover and is provided with a garbage barrel; a first movable supporting point and a second movable supporting point are arranged below the upper cover; the lower portion of the first movable supporting point is connected with a pull rod which is provided with an adjusting nut; a limiting pull hook is arranged in the pit; the lower platform is provided with a garbage can and an ozone generator; a hydraulic lifting mechanism is arranged below the lower platform and comprises four or more fixing sleeves; an oil cylinder is arranged in each fixing sleeve; each oil cylinder piston rod makes contact with the pit; oil cylinder bodies penetrate the lower platform; the left side oil cylinder is matched with the second movable supporting point of the upper cover through a pin; a waste material induction head is arranged below the upper cover; the lower platform is provided with a pushing oil cylinder which is fixed to the garbage can through a pull pin; a stopping block is manufactured on the lower platform; and a water level induction head is arranged on the inner wall, located below the lower platform, in the pit.					
50.	Subsurface system for the collection of refuse	EP2914513	2015-09-09	ASFC ASFC S A ASFS CARDOSO CABRAL MARTINS SILVA	
A subsurface system for the collection of refuse comprising various independent modules according to the type of refuse to be collected, each module consisting of an underground bunker (4), a cover (2) which opens up to 90 degrees, a post with an input bin (1), an internal platform (5) inside the bunker (4) and a container (6) for the collection of refuse having a mechanism (7) installed on two opposite sides of the container (6), each mechanism (7) consisting of a fixed arm (11) and a movable arm (8) within the fixed arm (11), both arms (8, 11) comprise a pin (9, 12) for connecting to a side loading lifter (16) of a collection truck (17).					
51.	Underground garbage collection device	CN202226289	2012-05-23	XU JIANYUN YAN ZENGXIN	
The utility model provides an underground garbage collection device which comprises a garbage box body, a mechanical door opening mechanism, a safety baffle automatic lifting mechanism, a suspension mechanism and a pit. The garbage box body and the safety baffle lifting mechanism are arranged in the pit. The safety baffle automatic lifting mechanism is fixed at the bottom of the pit by screws. The garbage box body is arranged at the upper part of the safety baffle lifting mechanism. The mechanical door opening mechanism is arranged at a central shaft of the garbage box body. The suspension mechanism is fixed on a garbage carrying vehicle. A water draining hole is arranged in the pit. The underground garbage collection device provided by the utility model has the advantages of large volume in the garbage box, small floor area, convenience in garbage collection, safety in use, easiness and convenience in operation, low construction maintenance cost, good environment protection effect, and long service life.					
52.	Underground garbage repository	CN109132279	2019-01-04	CHENGDU SHENGRONG PUBLIC FACILITIES	
The invention discloses an underground garbage repository. The underground garbage repository comprises a garbage storage assembly and a control assembly. The garbage storage assembly comprises a pit,a box body arranged in the pit and a lifting bracket arranged under the box body. A cover plate is arranged at the top of the box body, and a feeding channel is arranged on the upper side wall of thecover plate. A discharge opening is formed in the side wall, perpendicular to the cover plate, of the box body, and a discharge door is hinged to the discharge opening. The control assembly comprisesa hydraulic power control cabinet controlling a first hydraulic cylinder, and a hydraulic station is arranged in the hydraulic power control cabinet. The underground garbage repository is convenientto use, saves manpower, and has a large amount of storage, and can reduce the impact of peculiar smell on the environment.					
53.	Bury flat lift -type dustbin equipment and elevating gear thereof	CN207107556	2018-03-16	HUIZHOU JIAYI ENVIRONMENTAL PROTECTION TECHNOLOGY	
The utility model relates to a bury flat lift -type dustbin equipment and elevating gear thereof, elevating gear are arranged in underground pit of installation, include: bear, loading board, first driver and apron, bear frame and loading board fixed connection, the loading board is used for bearing the dustbin, first driver setting is in the bottom position of pit, and first driver with bear a drive and be connected, the apron is connected with bearing, and the apron separates the setting with the loading board each other, and the apron activity sets up in the opening of pit for the activitycovers the opening of pit, set up on the apron with the dustbin on the rubbish that corresponds of rubbish entry put in the mouth. The drive of first driver is risen in bearing the weight of a followpit for being located the dustbin that bears on the frame and exposing in the pit, the second drive drive apron rotates to be opened, and then makes the dustbin to be dragged by the garbage truck, thereby makes the dustbin to haul out from elevating gear, has effectively improved the efficiency of taking out of dustbin, and make taking out of dustbin more convenient.					

54.	Environmental protection underground garbage can structure	CN207142020	2018-03-27	JIANGSHAN FEILONG IMPORT & EXPORT	The utility model discloses an environmental protection underground garbage can structure, including outer staving, inner barrel body, sewage case and suction pump, the top of outer staving is close to right side position department and is provided with the lid, left and right both sides in the outer staving are close to the symmetrical of bottom position department and are fixed with two cushions, the right side transversely is provided with a bracing piece near bottom position department in the outer staving, the preceding terminal surface of bracing piece is close to left side position department and is provided with a hydraulic stem, keeping away from of hydraulic stem the one end of bracing piece is connected with the base, the bottom of outer staving is provided with the blow off pipe, the ladder groove with the cooperation has a bolt between the inner barrel body, the right side of suction pump is connected with the inlet tube, this device be convenient for filter out in the rubbish moisture and through the suction pump recovery processing, prevent that rubbish is smelly spoiled, deposit and when retrieving rubbish, inner barrel body can be fast to subaerial and do not needthe manual work to lift up inner barrel body, labour saving and time saving.	
55.	Underground type garbage can	CN204957500	2016-01-13	LI XIAOLONG	Underground type garbage can relates to the sanitation facility, and concretely relates to no. 1 tills land and buries formula vertical lift dustbin. Including platform and platform frame, the platform is located the frame top, platform center department is provided with the quad slit, be provided with sealed assembly between platform and the frame, the frame is installed in the ground below, be provided with the inside casing in the frame, the inside casing top is fixed mutually with the platform, be connected through four guide rails between frame and the inside casing, two guide rails in four guide rails distribute at the back of inside casing, remains two guide rails distributions, two sides of the left and right sides at the inside casing, the inside casing back is fixed with the hydro -cylinder, and the piston of hydro -cylinder is connected with the frame, the quad slit of platform top is provided with dustbin ground top assembly, and dustbin ground top assembly includes dog -house, motor and oil pump, power plug into box, electric mounting and maintenance and pedal opener, motor and oil pump are connected with the hydro -cylinder. The problem of the dustbin that exists among the prior art big to environmental pollution, take artifical, capacity less etc is solved.	
56.	Buried dustbin controllable lifting system	CN204399895	2015-06-17	CHANGJI SANJILONG SANITATION EQUIPMENT	The utility model discloses a buried dustbin controllable lifting system. The buried dustbin controllable lifting system comprises a bin body, the bottom of the bin body is provided with a base, the bin body is arranged on the base, and the front end of the bottom of the bin body is hinged to the base; the rear of the bin body is provided with a hydraulic lifting device, one end of the hydraulic lifting device is fixed underground, the other end of the hydraulic lifting device is fixed at the rear end of the top of the bin body, and the hydraulic lifting device is provided with a control switch; the inside of the bin body is provided with a garbage level detector, which can detect the height of garbage inside the bin body and is connected with an alarming indicator lamp through a controller, and when the garbage level detector detects that the bin body is fully filled, the controller switches on the alarming indicator lamp. The buried dustbin controllable lifting system has the advantages of being simple in structure, capable of conveniently lifting up and down and dumping a dustbin and timely detecting whether the dustbin is fully filled, convenient to clean and long in service life.	
57.	Push plate having a spiral double compression of the ground lift the debris kit	CN110002142	2019-07-12	HUADA SANITATION TECHNOLOGY	The present invention discloses a double compression of the coil and the push plate has a raised floor kit garbage, relates to the field of compression technology, many sites for the prior small footprint, a large-scale trash compressing apparatus cannot be used due to no dust compression problem, it have been proposed, which comprises a magazine, the magazine is movably connected with the push shoe the middle lumen, a pusher plate ejector cylinders fixed with two ends, the magazine is fixed with a screw extruder barrel bore at the left end, is fixed to the tube to the top auger extruder feed hopper, a screw barrel is provided with an extrusion screw rotation within the interior, an extrusion screw located at one end of the external barrel is fixed through a screw coupling the hydraulic motor. With the double compression force is increased, improving the use efficiency of space storage magazine, the magazine can be pushed out of the garbage in the form of a push plate, without requiring manual cleaning, the apparatus is installed in the underground, safer, small footprint and a high applicability.	
58.	Subterranean waste repository	CN209177332	2019-07-30	CHENGDU SHENGRONG PUBLIC FACILITIES	The present utility model discloses an underground garbage library, and a control assembly includes a garbage storage assembly, a garbage storage pit assembly includes, within the cabinet and the cabinet is provided on the pit under the lift bracket, the top cover plate is provided with a cabinet, the cover plate is provided with a feed channel of the upper side wall, perpendicular to the cover plate is provided with a discharge opening on the side wall of the cabinet, a discharge port has a hinged discharge door, the control assembly includes a control hydraulic power cylinders 1st control cabinet, a hydraulic power control built-in cabinets with a hydraulic station. Underground waste repository for use, saving manpower, and the accumulated amount is large, off-flavor impact on the environment can be reduced.	
59.	Underground dustbin	CN208326345	2019-01-04	TAISHAN YIQIN CLEANING SERVICE	The utility model belongs to the technical field of the environmental protection equipment, especially, relate to an underground dustbin. This underground dustbin, including elevating system, guide rail, dustbin and rubbish bung, elevating system buries the hole with being located, the guide rail is fixed elevating system's top, the dustbin includes the box and connects the movable pulley of the bottom of box, the movable pulley slides and sets up in the guide rail, elevating system is used for the drive the dustbin moves between the primary importance and the second place, the dustbin is in be in during the primary importance bury in the hole, the dustbin is in break away from during the second place bury the hole, the movable pulley is in the dustbin is in but roll -off during the secondplace the guide rail. This underground dustbin need not rise to the dustbin top of rubbish car hopper, to elevating system require lowerly, this underground dustbin's dustbin can move at will, requires lowerly to the parking position of garbage truck.	

60.	Bury that formula dustbin goes up and down and linkage frame is opened and close to apron	CN206798357	2017-12-26	KARAMAY CHENGYI TECHNOLOGY SERVICE	
The utility model relates to a bury formula dustbin crane technical field, be a bury that formula dustbin goes up and down and linkage frame is opened and close to apron, it includes tank tower, apron, link mechanism and takes the lift platform of power drive lift certainly, there is the tank tower at lift platform's upper end fixed mounting, at the articulated apron of opening and close of installing in the upper end left side of tank tower, installs the link mechanism who makes the apron open and close in step when can go up and down along with lift platform between apron and lift platform. The utility model has the advantages of reasonable and compact structure, convenient to use, through the link mechanism drive, lift platform apron when rising to rise can link and open, lift platform laps the linkage and closes when decline restores to the throne, the in -process that makes clearance rubbish need not the manual operation, has reduced the degree of difficulty of rubbish clearance, moreover, because link mechanism belongs to the link gear of mechanical type, compare in the hydraulic drive of pneumatic cylinder, receive the environmental impact less, use under this kind of rugged environment, it is more durable reliable.					
61.	Underground type garbage can	CN205526026	2016-08-31	SICHUAN CHANGYUAN HYDRAULIC MACHINERY	
The utility model relates to a dustbin specifically provides an underground type garbage can, including garbage box, horizontal compressing mechanism. Horizontal compressing mechanism setting is in garbage box, and the position that garbage box kept away from horizontal compressing mechanism is provided with opening and closing door, and horizontal compressing mechanism includes stripper plate, coaster, first pneumatic cylinder, and the stripper plate is vertical to be set up in garbage box, and the one side of keeping away from opening and closing door in the stripper plate is connected to the coaster, and first pneumatic cylinder sets up the one side of keeping away from opening and closing door in garbage box, and the piston rod of first pneumatic cylinder is connected in the coaster. This underground type garbage can has improved the bulk density of rubbish in the dustbin to efficiency is piled up to rubbish to the improvement in the dustbin.					
62.	Applicable buried multiple receiver for the collection, classification and storage of urban solid residues generally	ES1072554	2010-07-27	CASCALLANA GUERRA JESUS MARIA	
The invention relates to an underground receiver, preferably for urban solid waste materials, stored in one, two or more containers. According to the invention, the receiver comprises at least a partitioned pit, each compartment having embedded some metal structures () that can empty some containers provided with a system with lateral loading for collecting the waste materials, mounted on a truck comprising a platform () connected to a metal framing () movable in vertical direction along some guides () inserted in a concrete wall by means of a hydraulic piston () and a cover () linked to a saddle-frame (), inside another compartment there being placed some metal structures (), adapted to empty some other containers mounted on some other trucks provided with a waste collecting system with rear loading, framed by a fixed chassis () and a box (), in whose lower platform () there are located one or more containers (), an upper platform () playing the role of a cover movable in vertical direction, ascending and descending, through the inner side of the chassis () by means of some hydraulic pistons (), a compartment () having a fixed metal framing comprising a frame () linked to the cover () by some hinges and some access ladders (), designed for the technical area where there are located the electric, hydraulic elements and the like and three other similar compartments () with three adequate identical metal structures for emptying the containers transported by the collecting trucks provided with crane, configured by starting with a metal frame () joined with his corresponding cover () by means of some hinges, with filling openings suitable for storing selective waste materials, all the covers () being configured for receiving the same type of pavement as the pavement of the streets wherein they are placed. (From RO127009 A2)					
63.	Waste throwing apparatus and underground waste storage	JP2008303066	2008-12-18	NOMURAFOSHIZU TOKYO KENSETSU CONSULTANT	
PROBLEM TO BE SOLVED: To provide a waste throwing apparatus and an underground waste storage having the waste throwing apparatus for preventing discharge of odor. SOLUTION: The waste throwing apparatus is equipped with a pair of first upper lids 43 openable and closable in a gate fold manner on opposite sides of a throwing opening 41, a first open and close drive device 44 driving the first upper lids 43 for open and close, a second upper lid 51 sliding blow the first upper lids 43 for opening and closing the throwing opening, a second open and close drive device 52 driving the second upper lid 51 for open and close and an open and close control device. The first open and close drive device 44 and the second open and close drive device 52 are operated by the open and close control device so that in operation for starting waste throwing, completion of throwing opening close by the second upper lid 51 is faster than completion of throwing opening open by the first upper lids 43 and in operation for terminating waste throwing, completion of throwing opening open by the second upper lid 51 is faster than completion of throwing opening close by the first upper lids 43. COPYRIGHT: (C)2009,JPO&INPIT					
64.	Lifting system of underground garbage station	CN202046638	2011-11-23	HYVA MACHINERY	
The utility model discloses a lifting system of an underground garbage station, which belongs to the technical field of garbage disposal facilities. The lifting system of the underground garbage station comprises an underground box, an upper platform, a lower platform, upright columns and lifting cylinders, the upper platform and the lower platform are mutually parallel, the distance between the upper platform and the lower platform matches with the height of a garbage compression box, the upright columns are symmetrically distributed on two sides of the lower platform, the upper ends of the upright columns are respectively perpendicularly connected to the lower side of the upper platform, the lower portions of the upright columns are respectively perpendicularly connected with the lower platform, the lower platform is located in the underground box, the upper platform is covered on an upper port of the underground box, one end of each lifting cylinder is hinged onto a bottom plate of the underground box while the other end of each lifting cylinder is hinged to the lower side of the upper platform, and the upper platform is provided with a feeder connector which corresponds to the position of a feeding opening of the garbage compression box. A sealing groove which is distributed along a perimeter direction is arranged on the periphery of the lower end surface of the upper platform, and a sealing ring is mounted in the sealing groove. The lifting system can directly match with the garbage compression box and a feeder, and the garbage compression box ascends and descends flexibly and conveniently.					

65.	Multifunctional garbage can	CN204507876	2015-07-29	XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY	The utility model provides a multifunctional dustbin, the left side and the open-top of box, the box lie in the underground, ground is close to at its top, be provided with in the box with its size looks adaptation and can the relative gliding side pressure of its length direction lid, side pressure lid left side is connected with the piston rod of compression pneumatic cylinder, the bottom of box is connected with hydraulic cylinder's piston rod, the two hydraulic fluid port that compresses the pneumatic cylinder passes through the tube coupling with a magenetic exchange valve's two actuator port respectively, hydraulic cylinder's hydraulic fluid port and the 2nd magenetic exchange valve's execution hydraulic fluid port pass through the tube coupling, a magenetic exchange valve's oil inlet, the 2nd magenetic exchange valve's actuator port pass through the tube coupling with the 3rd magenetic exchange valve's two actuator port respectively, the 3rd magenetic exchange valve's oil inlet passes through the hydraulic pump to be connected with the oil tank, the hydraulic pump is connected with the motor. The utility model discloses area is little, and rubbish is capacious, can realize that non-contact puts in, also can make rubbish avoid tanning by the sun to can convenient clearance. 
66.	Subsurface system for the collection of refuse	EP2344403	2011-07-20	MBE SOTKON CONTENEDORES SUBTERRANEOS PARA R S U MBE SOTKON CONTENEDORES SUB MBE SOTKON CONTENEDORES SUBTERRANEOS PARA R S U MBE SOTKON KONTENEDORES SUBTERRANEOS PARA R S U SILVA NUNO FILIPE CARDOSO CABRAL MARTINS	The present invention relates to a subsurface refuse collection system comprising an underground bunker (4), a refuse container (3), a deposit bin (1) and a cover (2) with automatic opening and closing which can be powered electrically using a solar system. The container (3) is collected by means of an automated crane (18) with automatic hitching to facilitate collection. The system is equipped with multiple devices to measure volume and weight of the refuse deposited in the deposit bin (1), for the purpose of system monitoring or improvements to the management of truck routes. It also includes a safety device to prevent accidental falls into the underground bunker during collection. 
67.	Chain promotes formula buried trash	CN208233879	2018-12-14	LI YONGWEN	The utility model relates to a buried trash technical field is a chain promotes formula buried trash, its include the foundation ditch frame, put on the shelf, top cap, lift platform, chain wheel group, chain and book chain mechanism, putting on the shelf in foundation ditch frame left side upper end puts the foundation ditch frame upper end on right side on the shelf and installs the top cap thatcan open and close in ground with being fixed with, install in the foundation ditch frame and to follow the lift platform that the foundation ditch frame reciprocated, the utility model has the advantages of reasonable and compact structure, convenient to use, drive through the barrel arbor and roll up the chain barrel rotation, when the chain coiling is on roll chain barrel, dustbin platform along foundation ditch frame rebound, the structure is simplified more, because driving part installs in putting on the shelf in ground, it is more convenient consequently to safeguard, the chain of liftusefulness, intensity own is high, and is not fragile, greatly reduced the fault rate, the utility model discloses a weight is lighter, the volume is littleter, makes all more convenience of transportation and installation, has still reduced the production cost. 
68.	Landfill type up-down garbage station	CN1754793	2006-04-05	ZHANG CHAO	This invention relates to one geography lift garbage stop, which comprises the following structure: shear lift structure bottom is put in pit and its top is located with bottom; the edit rack front is connected to same socket; the rack top roller is garbage box; the hydraulic cylinder is fixed between bottom and rack and the oil cylinder is fixed between rack and garbage box; the garbage box is located with oil cylinder pushed vertical push pedal. The garbage is sealed without dirt to improve circle environment to facilitate residents and to beautify city. The invention adopts garbage compressor machine with large capacity and small earth area and adopts hydraulic lift structure. 
69.	Hydraulic pressure over -and -under type rubbish storage box	CN208102983	2018-11-16	TIAN JIN DE WEI ENVIRONMENTAL PROTECTION PROJECT EQUIPMENT	The utility model discloses a hydraulic pressure over -and -under type rubbish storage box, including dustbin, elevating platform, ground pit and hydraulic pump, the top cap is installed on the top ofground pit, and the intermediate position department of top cap is provided with and puts in mouthful, the both sides of top cap bottom all are provided with activated carbon adsorption layer, the control box is installed on the top of the ground pit of top cap one side, the ultraviolet ray disinfection lamp is all installed on the top of the inside both sides of ground pit, and all installs theslide rail on the inner wall of the ground pit of ultraviolet ray disinfection lamp both sides. The utility model discloses an install the elevating platform, hydraulic telescoping rod is installed tothe elevating platform bottom, and hydraulic telescoping rod passes through hydraulic cylinder drive for being convenient for elevate above the soil the dustbin, transporting and handle, it is more convenient to use. 
70.	Environment protective refuse box	CN204549055	2015-08-12	CHENGDU GUANYU SCIENCE & TECHNOLOGY	The utility model discloses an environment protective refuse box, including outer box, said outer box is buried underground in the underground, said outer container is internal to be equipped with a hydraulic pump driven hydraulic rod, be connected with an interior box on the said hydraulic rod, the internal dustbin that is equipped with a sliding connection of said inner box, the bottom of said dustbin is equipped with two swing joint's dustbin base, still be connected with an apron on the interior box, said apron can seal up the oral area that approximately closes box outside, and one side of box still is equipped with a filter outside, and the bottom of box is equipped with an air exhauster outside, the air exhauster is connected with the filter through a blast pipe. The utility model discloses simple structure, convenient to use can be sealed underground with the dustbin to during the harmful gas that distributes of reducing trash sends out the air, and can utilize the filter to carry out purifying and filtering to volatile harmful gas, thus further reduce harmful gas's harm 

71.	Concealed ecological collector for urban solid waste materials	WO98/54072	1998-12-03	CASCALLANA CASCALLANA GUERRA	Concealed ecological collector for urban solid waste materials, said collector consisting of an underground pit made of reinforced concrete, provided with a drain or water discharge channel (1), with an internal cage bearing on footings (4), presenting on the upper area of the pit a seal (7). The cage has at its lower portion longitudinal bars (11) which support rails (12) to which are coupled the wheels of the containers. The separation between the rails can be varied, the latter being provided with stops in the guides (13) and sliding in two sections nested in the walls of the pit, and acting as a travel stop. The cage has security locks and a lid (14) is placed at the top of the assembly. Water tapping points from the water network are provided to actuate the washing and fire hydrant systems. Automatic disinfection and deodorising systems are also provided. The cage can be lifted by means of a hydraulic piston (17) situated in the central area of the pit and, specifically, in the central area of the cage, in order to lift and couple the cage to the waste removal vehicle. Doors, at the upper part, intended to have access to the inside, are provided with content detection systems.	
72.	Underground dustbin	CN207312363	2018-05-04	XINJIANG SANJILONG ENVIRONMENTAL PROTECTION TECHNOLOGY	The utility model relates to a technical field of dustbin device is an underground dustbin, including electric cabinet, casing, elevating gear, upper portion open -ended rubbish box, electric cabinetfixed mounting is in casing outside top, and elevating gear fixed mounting is the intermediate position bottom the casing, and the rubbish box is placed on elevating gear, the electric cabinet includes oil tank and controller, and controller fixed mounting is in the oil tank top, the casing includes upper cover, first hydraulic stem, and the upper cover is connected with the casing is articulated,first hydraulic stem left end and casing articulated connection of left side inner wall upper end, and first hydraulic stem right -hand member is connected with the upper cover is articulated, and the upper cover intermediate position is equipped with a trash throwing opening, and first hydraulic stem is connected through first defeated oil pipe with the oil tank, elevating gear includes riser and second hydraulic stem, and second hydraulic stem fixed mounting is in the riser below and be connected with the riser, and the second hydraulic stem is failed oil pipe with the oil tank through thesecond and is connected, has not only beautified the appearance of the city but also improved rubbish box surrounding air's environment.	
73.	Underground garbage collection bin	CN203544835	2014-04-16	WUHAN MULAN ENVIRONMENT PROTECTIVE EQUIPMENT	The utility model discloses an underground garbage collection bin comprising an outer bin buried in a pit. Supports are respectively arranged on the upper portion and the lower portion of the inner wall of the outer bin. A slide device is fixed on the supports. An inner bin is arranged in the outer bin. A slide bar is arranged on the outer wall of the inner bin and slides in a slide groove of the slide device. A hydraulic cylinder is also arranged on the outer wall of the inner bin which is provided with the slide bar. An outer drop-inlet cover with an upper opening is arranged on a cover plate which is disposed on the inner bin; an inner drop-inlet cover is arranged in the outer drop-inlet cover, and a rotary drop inlet is arranged above the inner drop opening and matched with the upper opening of the outer drop-inlet cover. A power socket is arranged on the outer wall of one side of the outer drop-inlet cover, and a pedal device is arranged on the outer side of the outer drop-inlet cover. The underground garbage collection bin in the design can beautify urban environment, improve city images and increase city hygiene index and is easy to operate, convenient and sanitary; the service life of the garbage bin is prolonged and change frequency thereof is reduced, and thus government spending is saved.	
74.	Universal system for underground storage and elevation of solid waste containers	US20080203097	2008-08-28	TNL SOCIEDADE DE EQUIPAMENTOS ECOLOGICOS & SISTEMAS AMBIENTAIS TNL SOCIEDADE DE EQUIPAMENTOS	The present invention applies to the collection of solid waste into underground equipment and it refers to a system by which an underground pit is used to house one or more solid waste container(s). The system for the collection of solid waste as described by the current invention has a hydraulically activated platform on which one or more waste containers can be placed. It is made up of a bottom structure, a lid, an external surface, one or more deposit bins, two or more hydraulic cylinders, two or more structures that push and support the lid and a leveling structure. This platform, which can match the slope of the surrounding surface, is leveled and secured to a concrete pit.	
75.	Slag discharging system for underground garbage can	CN202244947	2012-05-30	ZHU ZHIZHENG	The utility model relates to the technology of garbage treatment, in particular to a slag discharging system for an underground garbage can, which specifically comprises the underground garbage can, a double-extending-rod oil cylinder and guide rails. The underground garbage can comprises a bottom door, and the bottom door comprises two door leaves which can move in opposite directions along the horizontal direction so as to be opened or closed. The double-extending-rod oil cylinder comprises a pair of rods which can move in opposite directions along the horizontal direction, and the pair of rods of the double-extending-rod oil cylinder is connected to the two door leaves of the bottom door of the underground garbage can respectively. When the pair of rods of the double-extending-rod oil cylinder moves in the opposite directions, the bottom door of the underground garbage can is driven to be opened or closed, and the two door leaves of the bottom door move along the guide rails. The slag discharging system for the underground garbage can enable the underground garbage can to discharge slag more easily.	
76.	Large-capacity odorless automatic compression underground dustbin and use method thereof	CN109436619	2019-03-08	XIAMEN UNIVERSITY TAN KAH KEE COLLEGE	The invention relates to a large-capacity odorless automatic compression underground dustbin. The dustbin comprises a dustbin shell, a shell cover plate, a dustbin body and a garbage compression device, wherein the shell cover plate is provided with an opening and is connected to the interior of the garbage compression device, a garbage outlet is formed in the side of the dustbin body, and a dustbin side door is hinged outside the garbage outlet; a garbage inlet communicating with the interior of the dustbin body is formed in the upper part of the dustbin body; and a dustbin opening and closing door is arranged below a dustbin inlet and slidably connected with the dustbin body in the horizontal direction. According to the large-capacity odorless automatic compression underground dustbin, the dustbin shell is buried underground. The compression device is arranged so that the garbage can be compressed and then stored, visible space above the ground is reduced to the maximum extent, generation of peculiar smell and a large quantity of bacteria is reduced, cleaning is facilitated, and the environment quality and the attractiveness of a city are improved.	
77.	Underground type garbage can	CN205366714	2016-07-06	WANG TONGFEI YANG SHIMIN ZHANG HESHAN	The utility model discloses an underground type garbage can belongs to city sanitation equipment, and the leading features is that lifting arm, pneumatic cylinder, dustbin etc. Are installed in the pit, is equipped with rubbish on the apron and throws in the case, and on -vehicle hydraulic pump backs down lifting arm, dustbin jack -up, the while to the apron through switching -over valve, rubber tube control pneumatic cylinder, with dustbin emersion ground, supplies the garbage truck handling, dumps rubbish, and in the dustbin fell into the pit after the work, the rubbish shipping work was accomplished to the apron return.	

78. **Underground container for collecting and sorting general urban solid waste.** ES2189636

2003-07-01

CASCALLANA GUERRA JESUS MARIA

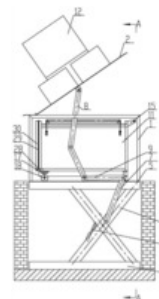
Underground container for collecting and sorting general urban solid waste which consists of a single installation made up of a trench (5) with two or more containers (18) and (18'), a single **hydraulic** unit and an automaton, and adjoining trenches (2), (3), (4), (40) and (30) for containers for glass, paper and cardboard, plastics, iron; also the electrical and **hydraulic** elements to drive the installation, with receiving slots in the upper part, with automatically closing gates when full and anti-vandal warning systems.<IMAGE>

79. **Automatic bury lift starting and stopping type and collude arm dustbin** CN206798356

2017-12-26

KARAMAY CHENGYI TECHNOLOGY SERVICE

The utility model relates to a buried trash technical field is an automatic bury **lift** starting and stopping type and collude arm dustbin, it includes apron, tank tower, colludes the arm dustbin and takes the **lift** platform of power drive **lift** certainly, have the tank tower at **lift** platform's upper end fixed mounting, the tank tower is upper end and front side difference open -ended support body, at the built -in arm dustbin that colludes of tank tower, at the articulated apron of opening and close of installing of the upper end of tank tower rear side, the utility model has the advantages of reasonable and compact structure, convenient to use, when rising to garbage collection box ground and go on clearing through **lift** platform, driving the apron through link mechanism and opening in step, make the couple that colludes the arm car will collude the arm dustbin from the opening part and hook and directly transport, it is more convenient to compare in the garbage bin, and the road surface space that takes is little, reduces the influence of passing through to the vehicle, and carry out the short -distance transport and collude the arm dustbin through colluding the arm car, compare in the rubbish station, more be applicable to narrower cities and towns tunnel, the practicality is strong.

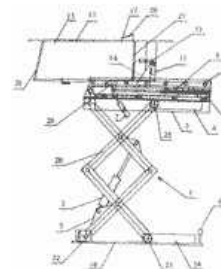


80. **Ground buried type lifting refuse station** CN2730808

2005-10-05

ZHANG CHAO

Disclosed is a ground buried type lifting refuse station, the structure of which is that the bottom of a scissor lifting mechanism 1 is positioned in the ground pit, and the top of the scissor lifting mechanism is provided with a chassis 3; the front end of a panel turnover bracket 9 is hinged with the chassis 3; an ash can 11 is arranged on the idler pulley 10 on the top of the panel turnover bracket 9; a **hydraulic** ram 7 is installed between the chassis 3 and the gallow 9, a **hydraulic** cylinder 8 is fixed between the panel turnover bracket 9 and the ash can 11, a lengthwise push pedal 27 driven by an oil cylinder 13 is arranged in the ash can 11. The utility model is characterized in that the good sealing performance of the smellless and dust free ash can is able to improve the surrounding environment. Because the ash can is positioned **underground**, facilitates the garbage dumping and beautifies the city. The adopted garbage compressing mechanism increases relatively the capacity of the ash can and reduces ground occupying. By adopting the **hydraulic** scissor lifting mechanism with a reliable work process and a high operating efficiency, ground buried type lifting refuse station can be widely applicable to the refuse collection of a variety of occasions of large, intermediate or small communities, industrial and mining enterprises, schools, armies, etc.

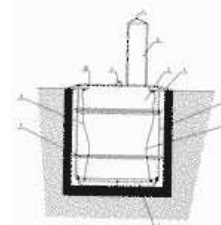


81. **Underground wastebin and garbage vehicle matching the same** CN201292122

2009-08-19

GUO YONG

The utility model relates to the field of refuse treatment, in particular to an **underground** refuse bin and a refuse collection vehicle matching the same, solving the numerous shortcomings of the existing refuse bin and solving the problems of easy dust dispersion and environment pollution when the refuse loader is cleaning. The refuse bin comprises a bin body, a head cover and a bottom cover; wherein the bin body is elastically and retractably connected with the head cover; the circumference of the head cover is provided with a convex edge; and the head cover is provided with a hook and a small bin body; the top of the small bin body is articulated with a small cover door; the bottom cover adopts a two-half type open-close structure, and each half bottom cover is articulated with the bin body; a pull rope is arranged between the head cover and each half bottom cover; the circumference of the outer wall of the bin body is provided with a positioning hoop; the refuse collection vehicle comprises a vehicle head, a carriage and a hoisting device of the refuse bin; the carriage adopts a whole seal structure, and a positioning hole is arranged above the carriage; the refuse bin has simple structure, rational design, small occupied area, and random arrangement at any location; and the refuse bin is used with the refuse collection vehicle, thus reducing the dust concentration and decreasing the environment pollution, and the hoisting device can achieve easy and fast hoisting and transporting of the refuse bin.

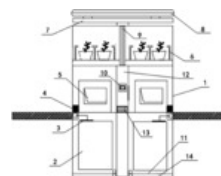


82. **Ecological smell-less buried lifting type garbage can** CN105292843

2016-02-03

CHANGZHOU UNIVERSITY HUAIDE COLLEGE

The invention provides an ecological smell-less buried lifting type garbage can which comprises a can body, a lifting mechanism and at least one garbage storage bucket. The garbage storage bucket is arranged inside the can body. A support is arranged at the bottom of the can body. The support is connected with the lifting mechanism. The garbage storage buckets are fixed to the support. The front side face of the can body is provided with garbage throwing openings corresponding to the garbage storage buckets respectively. The garbage throwing openings are located over the garbage storage buckets. A turnover cover plate is arranged on each garbage throwing opening. The rear side face of the can body is provided with a door. The ecological smell-less buried lifting type garbage can is of a totally-closed buried garbage collection structure, no sewage overflowing or foreign smell leakage exists, breeding of mosquitoes and flies is inhibited, and virus and disease spreading is reduced; and in addition, sanitation workers can clean the garbage storage buckets in a time-saving and labor-saving manner through the lifting mechanism, the working efficiency is improved, and working loads of the sanitation workers are relieved.

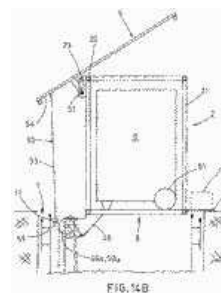


83. **Underground structure for the collection of refuse** EP2006222

2008-12-24

ECOGEST

The **underground** structure for collection of refuse comprises a superiorly-open **underground** chamber (1) housing a superiorly-open frame (2). The frame (2) is mobile alternatively in a vertical direction between an extreme **underground** position (A) and an extreme surface or above surface level position (B), by means of movement and guide organs (4), between the **underground** position (A) and the surface or above surface level position (B), by command of command and/or control means of the movement. A lid (5,150,180) is provided for closing the **underground** chamber (1) with the frame (2) in the **underground** position (A). The frame (2) is also open on a lateral surface (21) thereof. A plurality of containers (6) is provided for containing refuse or the like, arranged internally of the frame (2) and destined to be inserted and extracted through the open lateral surface (21) of the frame (2).

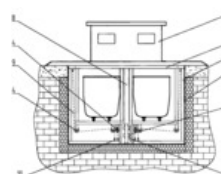


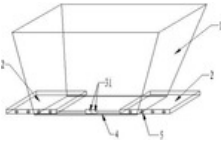
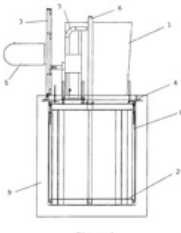
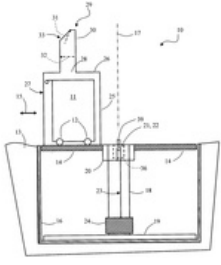
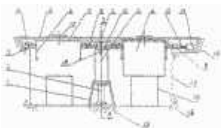
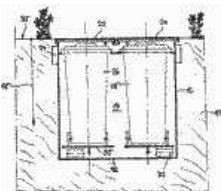
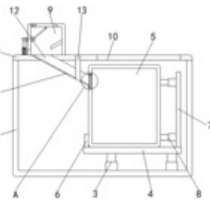
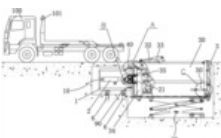
84. **Suo li assists over -and -under type buried trash** CN206142256

2017-05-03

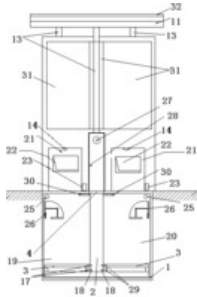
XINJIANG SANJILONG ENVIRONMENTAL PROTECTION TECHNOLOGY

The utility model discloses a suo li assists over -and -under type buried trash, main complicated elevation structure through having simplified traditional buried trash, the elevation structure who is powerful track telescopic mechanism abbreviation guide pulley and wire rope pulley, chain, cable wire combination, use the utility model discloses the back is direct has avoided the elevating system of the powerful cantilever beam type that reuses to the manufacturing cost who makes buried trash has obtained great decline, and solution that can be better the unbalanced problem of **lift** that exists in the use of present buried trash, the utility model has the characteristics of low cost, it is convenient to use, maintain, quickening buried trash that can be further is by a large amount of processes of popularizing and applying.



85.	Garbage can of underground garbage transfer system	CN202098752	2012-01-04	LUZHOU CITY LONGMATAN DISTRICT XINJUN MACHINERY FACTORY	
The utility model discloses a garbage can of an underground garbage transfer system, which comprises a can body and active doors, wherein the active doors are arranged at the left side and the right side of the lower part of the can body; the active doors are glidingly connected with the lower part of the can body; and the closing and opening of the active doors are realized through the expansion of an oil cylinder. The garbage can of the underground garbage transfer system has a simple structure, convenience in use, high safety factor, small occupied space and low manufacturing cost.					
86.	Universal system for underground storage	WO2011/159179	2011-12-22	AMORIM COSTA ALMEIDA TIAGO SILVA LOPES NUNO ANTONIO TNL SOCIEDADE DE EQUIPAMENTOS ECOLOGICOS & SIST S AMBIENTAIS	 Figure 1
The present invention relates to a system for underground storage and elevation of solid waste containers (1) comprising a hydraulically activated platform (2) within a concrete pit (9), onto which one or more containers (1) are placed, a lid and one or more waste deposit bins (5). At least one air filter (38) enables air recirculation.					
87.	Underground storage device has waste container	FR3021639	2015-12-04	ECOLLECT	
The invention relates to a (10) device of the underground storage container (sec) (it) to waste, which comprises: - a container (14) holder (sec) which can be moved in vertical translation within a pit; - a drive shaft (21) in movement of the container holder (sec); - a ballast (24) connected to the container holder (sec) and to the drive shaft by a deformable (23) link, so as to compensate for at least a portion of the weight of the container holder (sec); - a speed reducer (36) having an input shaft (40, 42) and an output shaft (38) for rotating the drive shaft (21); - a tip (39) secured to a first drive shaft end (40) of the input shaft of the speed reducer; - an electric motor (41) coupled to the input shaft of the gearbox by a second shaft end (42); and - a supply circuit of the (43) electric motor (41) which comprises a thermal (44) protection device of the electric motor as well as a connector (45) arranged to receive a battery (46) for powering the electric motor.					
88.	Automatic controlled underground whole-sealed dustbin	CN2318177	1999-05-12	ZHAO GUANGQIANG	
The utility model discloses an automatic control underground fully closed refuse box. A base which is provided with a hydraulic cylinder is positioned in the inner cavity of an outer shell which is positioned in a ground groove. A mechanical telescopic square cylinder is positioned on the base (1). A hanging beam is connected with the upper part of the mechanical square cylinder. A refuse box body is hung on the lower side of the hanging beam through a hanging chain. A sealing cover with an upper cover is arranged on the upper side of the hanging beam. Guide rails which are provided with an automobile road plate and are pulled through a lead screw are arranged on both sides of the upper end of the outer shell. The utility model has the advantages of reasonable structure, low cost, large capacity, and hygiene.					
89.	Refuse store as underground chamber uses body with motorized hoist to raise and lower bins into chamber enough to allow lids of occupied chamber to be closed.	DE10033286	2002-01-17	FRITSCH BERNHARD	
The bins (26,28) can be raised from an underground chamber and lowered back down far enough for the chamber lid to be closed and vice versa, using a hoist mechanism operated by hand etc force or by electric, hydraulic or pneumatic motor (32,34). The bins stand on respective hoist platforms (30) and the chamber lid can be closed and opened by force or electric, hydraulic or pneumatic drive. All motor functions are controlled remotely and lids (22,24) come in flap form and can be traveled by vehicle. The lid is heat-insulated and closes the chamber watertightly, the chamber having its own water runoff.					
90.	Conveniently-used -energy-saving and environment-friendly garbage can for buildings	CN108438587	2018-08-24	SHI QIANG	
The invention relates to the technical field of garbage cans and discloses a conveniently-used energy-saving and environment-friendly garbage can for buildings. The conveniently-used energy-saving and environment-friendly garbage can for the buildings comprises a storage cabin, wherein a top plate is fixedly mounted on the top of the storage cabin; a hydraulic telescopic rod is fixedly mounted at the right end of the bottom wall of an inner cavity of the storage cabin; a bottom plate is fixedly mounted on the top of the hydraulic telescopic rod; a box body is fixedly mounted on the upper surface of the bottom plate; a first baffle plate connected to the box body is fixedly mounted at the left end of the upper surface of the bottom plate; and a second baffle plate is fixedly mounted at the right end of the upper surface of the bottom plate. According to the conveniently-used energy-saving and environment-friendly garbage can for the buildings provided by the invention, garbage is stored underground and does not sent out rotten smells by means of the storage cabin arranged underground, so that the garbage can is quite energy-saving and environment-friendly. The hydraulic telescopic rod is mounted in the inner cavity of the storage cabin, so that garbage is quite conveniently collected. The first baffle plate is mounted, so that the box body is more stably mounted. An electric push rod is mounted, so that the device is more conveniently lifted.					
91.	Underground type waste compacting complete equipment	CN105692007	2016-06-22	XIAMEN YULONG INDUSTRIAL INVESTMENT	
The invention discloses underground type waste compacting complete equipment. The underground type waste compacting complete equipment comprises a compressor arranged in a pit, a lifting mechanism and a waste bin supported on the lifting mechanism, wherein the waste bin, the compressor and the lifting mechanism are of separable structures; the waste bin and the compressor are mutually tensioned through a case butt-joint locking mechanism; the compressor comprises a rack and a compression oil cylinder arranged on the rack; the end part of the piston rod of the compression oil cylinder is provided with a pushing head; the top of the waste bin is provided with a waste inlet and a cover body; the waste bin is provided with a rear door and a rear door locking mechanism; a pushing plate is arranged in the waste bin; the front side of the pushing plate is fixedly provided with a drive base; the front side surface of the waste bin is provided with a first avoidance through hole for allowing the drive base to pass through; the drive base is matched with the pushing head; the piston rod of the compression oil cylinder pushes the drive base to move through the pushing head; and the piston rod of the compression oil cylinder pulls the drive base to move or drives the pushing head to separate from the drive base through a clutch mechanism. According to the underground type waste compacting complete equipment, the use efficiency of the equipment is effectively improved, and the waste processing capacity of a transfer station is improved.					

92.	Bury formula dustbin	CN204549070	2015-08-12	CHENGDU GUANYU SCIENCE & TECHNOLOGY	The utility model discloses a bury formula dustbin, including outer box, said outer box is buried underground in the underground, said outer container is internal to be equipped with a hydraulic pump driven hydraulic rod, be connected with an interior box on the said hydraulic rod, the internal dustbin that is equipped with a sliding connection of said inner box, the bottom of said dustbin is equipped with two swing joint's dustbin base, still be connected with an apron on the interior box, said apron can seal up the oral area that approximately closes box outside, and one side of box still is equipped with a filter outside, and the bottom of box is equipped with an air exhauster outside, the air exhauster is connected with the filter through a blast pipe. The utility model discloses simple structure, convenient to use can be sealed underground with the dustbin to during the harmful gas that distributes of reducing trash sends out the air, and can utilize the filter to carry out purifying and filtering to volatile harmful gas, thus further reduce harmful gas's harm	
93.	Underground housing for a refuse receptacle equipped with elevating means	EP0858960	1998-08-19	ECOLLECT	The enclosure comprises a pit (1) buried in the ground. The pit contains a compartment (9-11) which has a roof (10) at ground level. The compartment also has a lifter (2-8) which can pass from the bottom of the pit to the top, where the floor (9) is at ground level. The lifter has a power plug (8) at ground level driven by an external motor (18) which is coupled to the plug by a specific fitting (20). Standard waste containers (12) are located on the floor and the roof supports a waste input hopper (14).	
94.	Underground type garbage can	CN205771201	2016-12-07	XIANGHE YANLONG MACHINERY MANUFACTURING	The utility model discloses an underground type garbage can, including the frame, install box, symmetry in the frame and install at four pivots of frame both sides and two rotating stand that install at the frame front end, the long cubic frame construction of frame for adopting the angle steel to weld, its front end connection right angled triangle frame, the box for adopt the steel sheet welding the frame inboard form hold the chamber, should hold being equipped with the rectangle on the roof of chamber and dropping into mouthful, right angled triangle frame top is equipped with the rubbish export, when rubbish was cleared up, rubbish was cleared the car and is used the hoist engine upwards to pull the dustbin along the inclined plane, pulled the fixed axle contact back of clearing the car rear to the rotating stand of frame front end and rubbish, and under the effect of hoist engine, the dustbin is around solid fixed axis rotation, poured rubbish in clear the car into, and its bottom need not to set up lifting devices, simple structure, convenient operation, greatly reduced installation cost.	
95.	Solid waste disposal apparatus	CN208948109	2019-06-07	GUO CAIJUN	The present utility model discloses a solid waste disposal apparatus, comprising a fixing groove is located underground, the fixing groove at the upper end cap, the cap lower end is provided with a processing device, and capping the upper end is provided with a matching opening with a processing device, processing device includes a housing, the housing is provided with a discharge opening at one end, the other end is provided with a pressing device and the housing, the discharge port shutter is provided. The present utility model arranged in the processing apparatus through the underground, on the one hand reduces the floor space, saves space, on the other hand odor is released and can be effectively solved the problem of breeding flies. Is provided through a processing device may be lifted, when it is desired to recover the waste time, the scissor lift mechanism can be lifted up through the housing, the housing is then pushed through the contents of the truck in the extrusion apparatus, it is convenient to operate, not only efficient, but also can greatly reduce the labor intensity of environmental protection workers.	
96.	Buried type refuse collection point	CN108313572	2018-07-24	YUCHAI SPECIAL PURPOSE VEHICLE	The invention discloses a buried type refuse collection point. The buried type refuse collection point comprises a refuse can groove, a lifting platform, refuse cans, a top cover, refuse throwing boxes and weighing devices, wherein the refuse can groove is formed in the underground in a concave mode, an opening is formed in the upper end of the garbage can groove, the lifting platform is arranged in the refuse can groove in a lifting mode and is driven by a lifting mechanism to ascend and descend, at least one refuse can is arranged on the lifting platform, the top cover covers the opening in the upper end of the refuse can groove, the refuse throwing boxes are arranged at the positions, above the corresponding refuse cans, of the top cover, an inner cavity of each refuse throwing box communicates with an inner cavity of the corresponding refuse can, each refuse throwing box is provided with a throwing port, and the weighing devices are used for measuring the weight of refuse in the refuse cans. According to the buried type refuse collection point, the weight of the refuse in the refuse cans be measured through the weighing devices, so that overweight can be conveniently avoided bytaking measures in time, and therefore the service life of the buried type refuse cans can be guaranteed.	
97.	Multi -functional underground garbage can of compressible rubbish	CN206336667	2017-07-18	HUIAN SHENGRONGFA MACHINERY	The utility model discloses a multi -functional underground garbage can of compressible rubbish, including the urceolus, the inner tube bottom is fixed with motor A, and motor A drive end is fixed with lead screw A, and lead screw A establishes inside the inner tube, and lead screw A goes up the cover has the roof rather than threaded connection, and lead screw A one end extends to the inner tube top, the inside motor B that is fixed with lid, motor B drive end are fixed with lead screw B, and lead screw B goes up the cover has a clamp plate rather than threaded connection, and when closed, establish in inner tube middle part position by lead screw B one end with the inner tube for the lid, are equipped with the through -hole B who is used for avoiding with the contact of lead screw A on the clamp plate, inner tube bottom corner strapped has the landing leg, and the landing leg lower extreme is equipped with the bottom plate, and the landing leg of inner tube one side is articulated with the bottom plate, is equipped with the hydraulic means A who makes the inner tube go up and down on the bottom plate. The utility model discloses a rubbish of inner tube the inside is compressible, avoids rubbish to pile up fast, and the trouble that need clear up often can derive rubbish after rubbish in the garbage bin rises ground automatically, is convenient for move rubbish to the rubbish load wagon.	
98.	Lifting buried garbage can	CN204399866	2015-06-17	KARAMAY CHENGYI TECHNOLOGY SERVICE	The utility model relates to a lifting buried garbage can which comprises garbage can bodies accommodated in a foundation pit, a cover plate, a hydraulic oil cylinder and an operation box, wherein garbage inlets are formed in the cover plate, and a hydraulic oil cylinder power unit is arranged in the operation box; the lifting buried garbage can further comprises a lifting platform for bearing the garbage can bodies, and the lifting platform is connected with the bottom surface of the foundation pit through the hydraulic oil cylinder; the lifting buried garbage can further comprises at least one group of guide mechanism, each guide mechanism comprises an upright column fixed on the bottom surface of the foundation pit and a guide column which is nested to the upright column and capable of moving vertically relative to the upright column, and the lifting platform is fixedly connected with the guide column. The lifting guide mechanisms provided with mutually matched guide columns and upright columns are adopted, so that under the action of the hydraulic oil cylinder, the lifting platform lifts and drops under restraint of the upright columns however the specific gravity in the garbage can changes, and the lifting stability of the garbage can is improved greatly.	

99.	Buried lifting environment-friendly garbage can	CN204110703	2015-01-21	CHEN JIANG	
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100.	Semi-underground waste system using a quick replacement reinforced liner	US20150210470	2015-07-30	SUTERA DEEP GREEN	
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