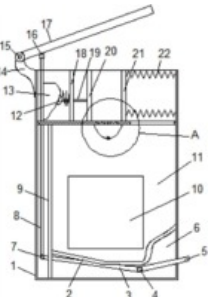
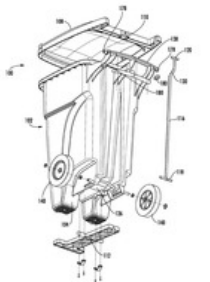
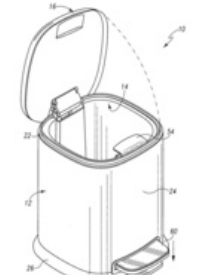
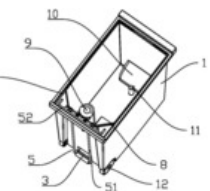
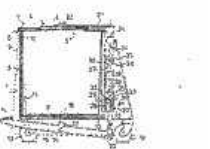
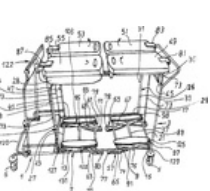
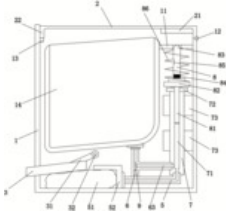
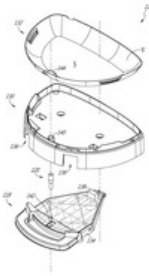
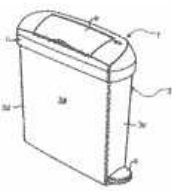
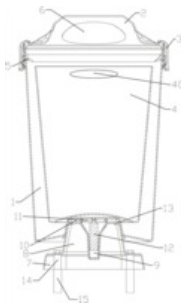
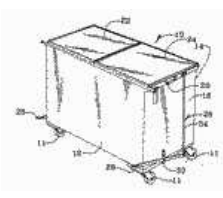
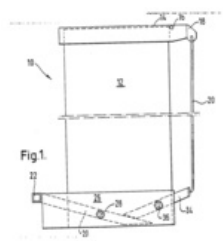
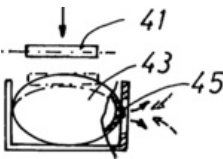
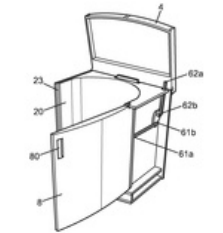
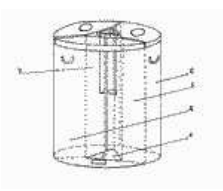
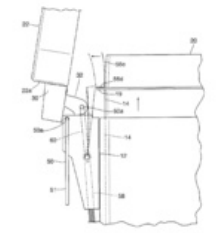
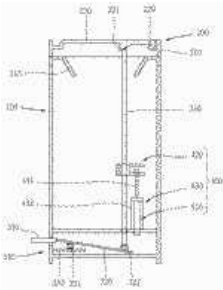
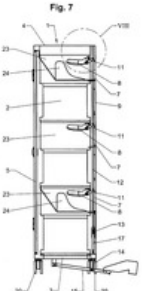
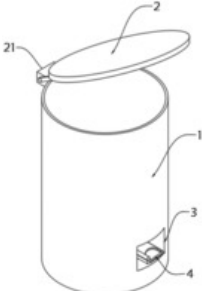
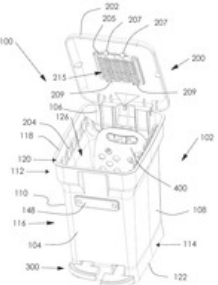


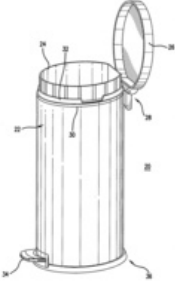
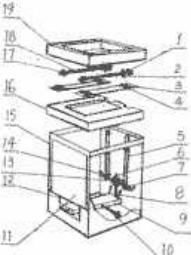
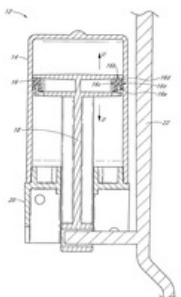
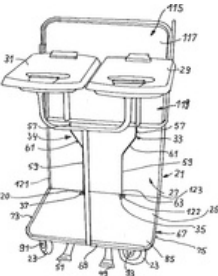
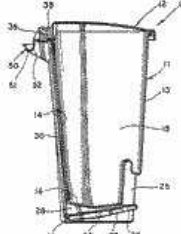
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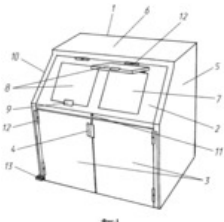
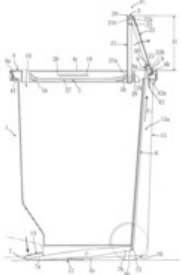
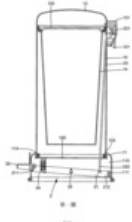
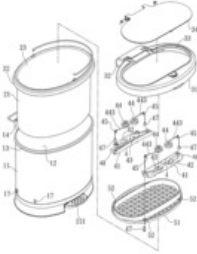
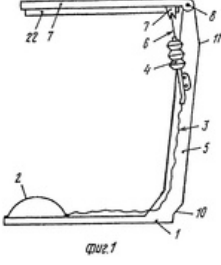
#	  Title	Publication number	Publ. date	Applicant/Assignee	
1.	Solid -liquid separation's plastic pedal bins	CN206750687	2017-12-15	 GUANGDONG MEDICAL UNIVERSITY	
The utility model discloses a solid -liquid separation's plastic pedal bins, including staving and bung, the left side system of staving has a handle rod, and handle rod sells axle and bung swivelling joint, staving bottom be provided with the bottom plate, the bottom plate right side is presented the concavity and is constituted the recess with the staving, set up pedally in the recess, the pedal main shaft that includes, main shaft have the running -board in the staving bottom in main shaft right side system, and main shaft left side system has the connecting rod, and son and the rotatory cooperation of ejector pin lower extreme are sold to the connecting rod, and the ejector pin upper end contacts with the bung, upper portion is provided with water flat separation board in the staving, is provided with the riser between water flat separation board left side and the bottom plate left side, and the ejector pin is located between riser and the staving left side, the chamber is stored to the rubbish that the common constitution of water flat separation board, riser, bottom plate and staving is used for saving the solid refuse. This novel structural design is equitable, accomplishes the solid -liquid separation of rubbish when opening and close the bung through the running -board, avoids the rubbish corruption with smelly, protects all ring edge borders.					
2.	Waste receptacle with pedal-operated lid	WO2017/023965	2017-02-09	 RUBBERMAID	
Waste receptacles (100) with pedal-operated lids (108) are provided. A waste receptacle includes an enclosure (102) having an enclosed base portion (104) and at least one sidewall (106) defining an open top portion (105), a lid (108) hingedly coupled to the enclosure and defining a channel, a pedal (112) pivotably coupled to the base portion, and an elongated lift rod (116) having a first end coupled to the pedal and a second end being disposed in the first end of the channel when the pedal is in the first position and the lid is disposed in a closed position and being disposed in the second end of the channel when the pedal is in the second position.					
3.	Step can	WO2009/021165	2009-02-12	 HELEN OF TROY	
A trash can is disclosed having an exterior shell, a liner seated within the shell, a latch pivotably attached to the liner for securing a flexible bag to the liner, and a handle to facilitate placing and removing of the liner from the shell. An optional aspect of the invention is to affix the handle of the liner to the latch. The liner of the trash can, in a featured embodiment, utilizes a latch having a body portion into which surplus of the flexible bag may be gathered and held. The trash can may further include a lid connected to the exterior shell. The lid connects to the shell using a front hinge and a back hinge and is actuated by a foot pedal.					
4.	Two flip garbage bins are stepped on to foot	CN208054187	2018-11-06	 CHEN HUIYONG	
The utility model belongs to the technical field of the garbage bin, a two flip garbage bins are stepped on to foot is related to, including square barrel body and two bungs, the left and right sidesof ladle body is rotated with the bung respectively and is connected, the bottom of ladle body is provided with the footboard, the footboard passes through the axis of rotation and the ladle body is connected, the ladle body rear side is provided with the connecting rod, and the lower extreme and the footboard of connecting rod are articulated, the oval slide opening sliding connection of class onthe upper end of connecting rod and the bung, and the major axis of the oval slide opening of class was in vertical direction when the bung closed, the slide opening sets up in the bung bottom, liesin the inboard that the position is connected to bung and ladle body. The utility model provides a two flip garbage bins are stepped on to foot, simple structure, the low price, the molding is succinct, and the appearance is pleasing to the eye, is difficult for emptying after opening flip, has still designed the disposal bag anchor clamps simultaneously, and disposal bag and garbage bin break awayfrom each other when having avoided the use.					
5.	Improvement to containers for storing and transporting waste	FR2646832	1990-11-16	 LEMER PAX	
This container consists of an enclosure 1 provided with a closure cover 6 shutting off an upper opening 5. This closure cover 6 can be manoeuvred using a foot control device such as a pedal 14. According to the invention, the container includes means providing, by control from the pedal 14, firstly a vertical translation of the closure cover 6 and then its lateral retraction to free the upper opening 5. It also includes means which, when the pedal 14 is released, first allow the closure cover to be recentred above the opening 5 and then allow its vertical translation, downwards, to shut off the said opening 5. These means consist of a control rod 19 associated with a set of cams 23, 24 and of limit stops 25, 26. This container, made of lead, is particularly suitable for the storage of radioactive waste. <IMAGE>					
6.	Trolley for use in hospitals and care homes has waste containers fitted with hinged lids operated by pedals mounted parallel to long sides of trolley and connected to them by connecting rods	DE10047534	2002-04-18	 HAMMER LIT	
The trolley for use in hospitals and care homes has waste containers fitted with hinged lids (49, 51, 53, 55). These are operated by pedals (65, 67, 69, 71) mounted parallel to the long sides (74) of the trolley and which are connected to them by connecting rods (73).					

7.	Pedal-bin assembly	EP2536646	2012-12-26	KETER	
A pedal type bin assembly (10) comprising a base (30) configured for accommodating a bin (12), a lid-bearing post (34) extending upright at a rear edge of the base and configured for supporting at a top end (36) thereof a pivotable lid (38), and a lifting mechanism (40). The lifting mechanism comprises a manipulating element (52) positioned at a front edge of the base and a leverage array (48, 50) articulated to the manipulating element, for manipulating the lid between an open and a closed position upon respective operation of the manipulating element.					
8.	Dustbin capable of avoid accidental opening	CN106742969	2017-05-31	CHEN GUOLIN	
The invention discloses a dustbin capable of avoid accidental opening, wherein the dustbin comprises a dustbin body and a storage bin which is installed inside the dustbin body; the dustbin body is rotatably provided a dustbin cover; two pedals are installed on the dustbin body which are A pedal and a B pedal; the A pedal and the B pedal are respectively connected with an A rotating member and a B rotating member through an A connecting rod and a B connecting rod; the A rotating member and the B rotating member are provided with torsion springs for resetting; an A reservoir and a B reservoir are respectively installed under the A pedal and the B pedal; the A reservoir is connected with an A transfusion cylinder; the A transfusion cylinder is connected with a vertical piston barrel; the piston barrel is movably provided with an A piston rod; and end part of the A piston rod is connected with a bottom plate; the bottom plate is movably connected with a push rod; the lower part, positioned right above of the push rod, of the dustbin cover is provided with a bearing plate. Compared with the prior art, the invention has simple structure and low cost; the manufacture is convenient and easy for large scale promotion; the dustbin can prevent opening by children but is convenient for adults to open.					
9.	Trash can assembly with motion damper for lid	EP1705137	2006-09-27	SIMPLEHUMAN	
A trash can assembly (20) has an outer shell (22) having an enclosing wall, a top end, and a bottom end. The assembly (20) includes a pedal bar (50) pivotably coupled to the bottom end, a lid (28) pivotably coupled to the top end, and a lifting rod (40) that extends vertically inside the outer shell (22), with the lifting rod (40) coupling the lid (28) and the rear end of the pedal bar (50). An air damper (60,62) is provided inside the outer shell (22) and coupled to the rear of the pedal bar (50) for applying an opposing force against the downward motion of the rear of the pedal bar (50).					
10.	Receptacle assembly with a motion damper	EP3214019	2017-09-06	SIMPLEHUMAN	
A receptacle assembly (110) comprising a body unit (112) comprising a front wall (F), a rear wall (R), a chamber (C), a lid unit (114) comprising a lid (122) configured to pivot between a closed position and an open position, a base unit (116) comprising a foot pedal (118) operably connected with the lid (122) such that, in response to a user depressing a front of the foot pedal (118), the lid (122) moves from the closed position to the open position, the foot pedal (118) comprising a recess (142), and a motion damper (120) positioned near the front wall (F), the motion damper (120) comprising an end that is received in the recess (142) in the foot pedal (118), the motion damper (120) being configured to dampen movement of the foot pedal (118) and the lid (122).					
11.	A bin having a reversible flap	EP1744973	2007-01-24	KENNEDY HYGIENE PRODUCTS	
There is disclosed a pedal bin (1) comprising a container (3), a pedal (5) and a pivotably mounted flap (9). The flap (9) is locatable in a first position to facilitate opening of the flap in a first direction relative to the container (3). The flap is also locatable in a second position to facilitate opening of the flap (9) in a second direction relative to the container (3). In either position, the pedal (5) is operable to open the flap (9).					
12.	Outdoor classification garbage bin	CN108275400	2018-07-13	HENAN POLYTECHNIC UNIVERSITY	
The invention discloses an outdoor classification garbage bin, and relates to the field of garbage bins. The outdoor classification garbage bin comprises a bin body. A base is arranged at the lower end of the bin body. The base is provided with a locking mechanism capable of locking and loosening the bin body. The locking mechanism comprises two first connecting rods and two second connecting rods. The two second connecting rods are hinged through a pin shaft. A boss is provided with a downward opening used for allowing the driving handle to penetrate through. The opening extends forwards to the exterior of the boss and extends downwards into the base. The driving handlecan drive the two second connecting rods to move towards the interior of the opening. Lug holes are formed in the positions, directly facing the tail ends of the first connecting rods, of the inner wall of a groove. The tail ends of the first connecting rods can penetrate into the lug holes. The lower end of the driving handle is provided with a transverse pedal plate. The pedal plate extends to the exterior of the opening. A long-strip-shaped pedal plate accommodating groove is formed in the position, located under the pedal plate, of the base. A reset spring is arranged between the bottom ofthe pedal plate accommodating groove and the pedal plate, and the purposes of convenient dumping, clearing and transporting of garbage are achieved.					

13.	Lid control device for refuse containers	US4892218	1990-01-09	MELIDEO MICHAEL J	A lid control device for refuse containers having a linkage system including a normally horizontally disposed foot pedal arm mounted on the end of the container at its lower portion. One end of the pedal arm terminates in a foot pedal, and the arm is pivoted to the container near its center portion. The other end of the arm is pivotally secured to a vertically disposed lifting arm which extends vertically upwardly. The upper end of the arm terminates in a horizontal flange. The upper end of the lifting arm extends through a keeper bracket on the upper edge of the container. The keeper bracket is located rearwardly of the conventional lifting bracket secured to the end of the container which is used by refuse trucks in lifting the container. The horizontal flange on the upper end of the lifting arm engages the lower surface of the lid on the container. Preferably, if the lid is comprised of plastic, a slide plate is mounted on the lower surface of the lid to engage the horizontal flange of the lifting arm. When pressure is applied to the foot pedal, the lifting arm rises to engage the lower surface of the lid causing the lid to pivot upwardly to an open position.	
14.	Pedal-operated waste container	GB8714001	1987-07-22	TREVOR ILES	A pedal operated waste container 10 comprises a body 12 having a lid 14 mounted thereon adapted to move between a closed position and an open position on operation of a foot-operated pedal 22. The pedal 22 is connected to a first pivotally mounted member 24 within a channel 26 and whose distal end contacts the proximal end of a second member 34 also pivotally mounted within the channel 26. The distal end of the second member 34 is connected to a pull rod 20 which in turn is connected to the lid. Preferably two such sets of members and channels are provided one at each end of the elongate pedal 22. The mechanical advantage of the arrangement is such that a relatively light pressure of the foot on any part of the pedal 22 is sufficient fully to open the lid 14 and allow clear access to be obtained to the interior of the container, even when the lid 14 is heavy, e.g. when it and the container 10 are made of metal.	
15.	Flap lid of container has operating lever, opening mechanism, bellows-type damping element, pedal, pusher element, and stop-tab	DE19912563	2000-09-21	HAMMER LIT	The pedal container lid has an operating lever, especially a pedal operated opening mechanism cooperating with a damping element in the form of a pressure-bellows damping the lid-flap's (7) closure movement against the rim (51). The pressure bellows is an ovoid hollow body made of rubber or rubbery plastic easily replaced. The opening mechanism has a swivel pedal near the ground and connected with a longitudinally movable pushing element (17) near the rear wall (9). The pusher element has a stop-tab (41) engaging with the damping element.	
16.	Removable dustbin has opening in front face	FR3019161	2015-10-02	ANDRE FABRICE	The invention relates to a bin comprising a bin body having a bottom and at least one side wall (20), the bin body defining an interior volume in which may be fixed a bin bag, said bin body having a top opening and a cover (4) hinged to said bin (2) body, said cover (4) being controlled to the opening by means of an actuating device and capable of passing from a closed position in which it closes said upper opening, RS an open position in which it permits the filling of the bin bag, according to the invention, the bin (1) comprises a pivoting (8) door on said at least one side wall (20), such that said door (8) and said cover (4) form a single upper and side opening, in the open position, allowing the removal of said bin bag.	
17.	Household trash bin comprises four compartments each containing identical size container, one for non-recyclable trash, two for recyclable trash and one for plastic bags	FR2811649	2002-01-18	LACROIX BRETON MYRIEM	The trash bin which allows the selective sorting and storage of household trash is composed of four compartments (2,3,4,7) each containing a container. The containers are of identical size, one for non-recyclable trash, two for recyclable trash and the fourth for plastic bags used for the non-recyclable trash. The compartments are placed around a central triangle forming the compartment (1) which houses the cover opening and closing mechanism.	
18.	Bin having rising liner	CA2939171	2018-02-15	MEREY THOMAS G B	A pedal-operated refuse bin having a liner within an outer shell. The pedal is pivotally mounted adjacent to the bottom of the shell and has a forward end which rises into contact with the liner when the rear end of the pedal is depressed. When the rear end of the pedal is further depressed, the forward end of the pedal causes the liner to rise and to cause a lid to swing open. When the pedal is no longer depressed, gravity causes the liner to descend and press downward upon the forward end of the pedal and the lid swings closed.	

19.	Garbage can having a pedal	KR20150067839	2015-06-19	JUNG, SOON SEAK	The present invention relates to a pedal type garbage can. The present invention comprises: a main body of which the upper side is opened and having an inner space; a cover assembly covering the upper side of the main body and having a cover; a pedal assembly installed in the main body and having a vertical shaft pulling the cover to be opened while moving upward when the pedal assembly is pressed and moving downward by a self-weight when the pedal assembly is released from being pressed; and a damper assembly installed in the main body and connected with the vertical shaft and moving together when the vertical shaft moves upward and applying a damping force to the vertical shaft when the vertical shaft moves downward. According to the present invention, the pedal type garbage can enables the cover of the garbage can to easily be opened and closed and prevents noise generation when the cover is closed. Moreover, it is easy to empty waste filled inside the garbage can. 
20.	Cabinet for collecting waste and potential recyclables	EP1407982	2004-04-14	STUMPF METALLWAREN	The collecting cupboard has closing elements which are pivoted at the top end to the cupboard side walls (2) and can be turned by pivot levers (11) which are below the turning axis on the closing elements (8) and connected to the operating rods (12), which move downwards for opening. These rods are rigidly joined to a transverse rod (13) connected to a pedal bar (15). 
21.	Foot tread formula waste trash can	CN209337389	2019-09-03	JIANGSU PROVINCE PEOPLE S HOSPITAL	The present utility model relates to the technical field of a trash can, in particular to a foot tread formula waste trash can, comprising a tub, the tub is provided with a top of the lid, closer to the top of the tub lid is bonded to an exterior side of fixed block tightly, the lower side of the barrel is provided with a foot mouth, a foot opening is provided therein with a foot pedal, the interior of the barrel is provided below the strut, the strut top provided with a lever, one end of the lever is attached securely to the foot pedal, the foot pedal is disposed under a limited lances, the side wall of the tub is attached securely to one end of the limiting rods, one end of the lever away from the foot pedal is provided at the top of the vertical linkage, the linkage provided on top of covered block, top block is attached securely to the top of the lid, the lid close to the fixing block is adhered closely to one side of the connecting rod. The present utility model is simple in structure, convenient to use, convenient to be opened after releasing the foot pedal lid retaining the lid is opened, in addition, through the waste liquid collecting sump can be, for facilitating recovery. 
22.	Waste disposal devices with waste treatment component	US8910821	2014-12-16	DOOLI PRODUCTS	Waste container includes a base defining a waste-receiving compartment and including a body and a closure component adapted to retain a membrane. The closure component includes a support portion defining an opening through which a bag is partly inserted into the compartment and then into which waste is insertable. The closure component is pivotally attached to the body to provide the compartment with either an open or closed position. The body includes a closure component support portion that supports the closure component. A lid is movably attached to the base and moves between a closed position covering the opening and an open position in which it does not obstruct the opening. A waste treatment component is arranged on an underside of the lid and is positioned to at least partly press against the membrane, when the membrane is present, when the lid is closed. 
23.	Waste containment receptacle	US20150001219	2015-01-01	REV A SHELF JEFFERSONTOWN	A waste receptacle for collecting waste with a carrier that allows for easy transport. The receptacle uses a closing system to manage odor, and an actuator system to open and close the closing system. The closing system has a clamping mechanism housed inside a body that can clamp a bag placed inside the body with the opening of the bag disposed about the clamping mechanism. The receptacle may also have a lid in which actuation of the actuator system causes the clamping mechanism to open and close simultaneously with the lid. The actuation system utilizes pedals that can be replaced with a handle actuator. 

24.	Trash can assembly	US20050103788	2005-05-19	SIMPLEHUMAN	
A trash can assembly has a lid pivotably coupled to an upper end of an outer shell, and a pivoting pedal bar that is coupled to the lid via a link rod. The closing motion of the lid is dampened by counter-balancing the closing force of the lid, which can be accomplished by generating a counter-balance force against the pedal bar that is equal to or slightly less than the closing force of the lid. The counter-balance force can be made to vary during the closing motion of the lid. In addition, the entire link rod can be positioned inside the interior of the outer shell, and the pivot axis of the lid about the outer shell can also also positioned inside the interior of the outer shell.					
25.	Pedal uncovering waste collecting tank	CN201520521	2010-07-07	ZHANG RUFANG	
The utility model relates to a pedal uncovering waste collecting tank, which consists of a tank body, a slide cover plate, a pedal uncovering mechanism, a collecting barrel and a decorative panel, wherein a drawing type support and a door are arranged on the front surface of the tank body, the drawing type support is erected on inner walls of two sides via a three-section slide track, the collecting barrel is arranged in the support and can be interlocked with the door. A pedal hole is arranged on the bottom of the tank body, a pedal is arranged in the tank body, the slide cover plate with a rack is arranged at the upper opening of the tank, and the slide cover is controlled by the pedal uncovering mechanism to slide to open or close. Angle irons are welded to form a frame covered with metal sheets, thereby forming the tank body. The decorative panel is arranged at the upper opening of the tank body. The collecting barrel molded by pressing plastic is provided with a turned edge and a lift ring. Due to the slide plate type tank cover and the pedal uncovering mechanism, the waste collecting tank is fine in sealing and zero in effect to environmental air, can be uncovered without hand touch so as to bring benefit for personal hygiene, and is adaptable to high-grade public occasions such as hotels, airport terminal building and the like.					
26.	Receptacle assembly with motion damper near lid portion	EP2772454	2014-09-03	SIMPLEHUMAN	
A receptacle assembly (2) including a body portion (5), a lid portion (4), a pedal portion (3), a rod (22), and a motion damper (12). The body portion (5) includes an upper portion (6) and a base portion (30) and defines an interior space (13). The lid portion (4) is movably engaged with the body portion (5) and is configured to move between an open position and a closed position. The pedal portion (3) is configured to move the lid portion (4) between the open position and the closed position. The rod (22) extends between the lid portion (4) and the pedal portion (3). The rod (22) interfaces with the motion damper (12). The motion damper (12) is positioned near the lid portion (4) and is configured to dampen motion of the rod (22).					
27.	Trolley for use in hospitals and care homes has waste containers fitted with hinged lids operated by pedals mounted under base of trolley and connected to them by connecting rods passing through it	DE10047538	2002-04-18	HAMMER LIT	
The trolley for use in hospitals and care homes has waste containers fitted with hinged lids (29, 31). These are operated by pedals (49, 51) mounted under the base (25) of the trolley and which are connected to them by connecting rods (33, 34) passing through it.					
28.	Step-on wastebasket	US4972966	1990-11-27	RUBBERMAID	
A wastebasket (10) includes a base portion (11) with an open upper end and a cover (12) pivotally attached thereto. A lever (27) is pivotally attached to the base portion (11) and carries a link arm (30) near one end thereof so that pivoting the lever (27) moves the link arm (30) upwardly and downwardly. A pin member (35) is carried by the upper end of the link arm (30) and is received in a track (39) carried by the cover (12) through an access opening (40) positioned above the pin member (35) when the cover (12) is closed on the base portion (11). The pivotal movement of the cover (12) is limited by a handle (50) which extends rearwardly from the base portion (11) to a further extent than the cover (12) when it is fully open thus preventing the cover (12) from contacting any surface which might be adjacent to the handle (50). When used with a plastic liner (53), the liner (53) may be draped over the upper open edge of the base portion (11). Fins (54) carried by the cover (12) travel in trackways (18) located at the upper edge of base portion (11) during the pivotal movement of the cover (12) to push the liner (53) away from the track (39) and pin member (35) so that the liner (53) does not interfere with the operation thereof.					

29.	Container cabinet for method and storing solid household trash	RU176114	2018-01-09	
Utility model relates to the constructions of enclosures for the debris containers and can be used predominantly for the arrangement on pridomovnykh, yard, office and other territories. Container cabinet for method and storing solid household trash includes the housing, which contains two side walls, rear wall and roof. Container cabinet also contains the double doors with the knobs, fixed on the housings, and the cover, located between the roof and the double doors. Cover is fixed at angle to the roof. In the cover the hatchways with the hinged doors are executed. Container cabinet is supplied with the pedal operation of the opening of dvertsev of hatchways. Each double door is executed with the catch of its discovery. Housings have the chamfered edge from the side of cover. The Declared technical solution makes it possible to increase the reliability of fastening the design parts of the device, and to also simplify the operation of device. 9 z. p. of formula, 6 illus.				
				
30.	Garbage storage container	JP2017071472	2017-04-13	HEIWA KOGYO
PROBLEM TO BE SOLVED: To provide a garbage storage container in which a lid is folded and opened by slightly stepping on a pedal, and the folded lid is smoothly operated to close by releasing a foot from the pedal while the lid is opened.SOLUTION: A foldable subsidiary lid 3 includes a first lid body 21 in which pin parts 24, 24 are projected from a front edge part 21a to both right and left sides and a second lid body 22 in which a rear edge part 22b is pivotally attached to a rear side part 4b of a lid frame 4. The garbage storage container is configured to be in an opened lid state Pby folding the first lid body 21 and the second lid body 22 into an inverted V-shape in the side view by elevating force Fof an elevating and lowering member 6 and to make a closing operation to bring the first lid body 21 and the second lid body 22 into a closed lid state by resilient biasing force of a resilient member 23 when the elevating force Fis cancelled in the opened lid state P.SELECTED DRAWING: Figure 2				
				
31.	Rubbish bin with pedal	TWM312517	2007-05-21	GAO MINGHONG NO 6 XINHE SECOND ROAD ANPING INDUSTRIAL ZONE SOUTHERN DISTRICT TAINAN CITY
This creation is about one kind of foot pedal dust bin, contains a foundation, to have a trash investment mouth casing of body, to be possible to cover this trash investment mouth a cover, to have the connecting rod installment and an antihunt device of footboard; This connecting rod installment contains a release lever, when this footboard stepped on perhaps was let loose, this release lever can make the swing to cause this cover to lift perhaps Ge He, but this antihunt device contains a pressure attenuator, this pressure attenuator installs on this release lever, when stepped on footboard letting loose causes this cover to cover fashionably, this pressure attenuator will have a cushion resistance to the replacement of this release lever, enables this trash investment mouth the cover smooth Ge He to reduce the sound, moreover this pressure attenuator forms the cushion resistance the position also to this release lever the adjuster.				
				
32.	Trash receptacle	JP3171642	2011-10-19	Ke Fumio
PROBLEM TO BE SOLVED: Trash are compressible, is simple in construction and easily assembled SOLUTION: providing refuse receptacle container of the trash bin 21 and outer container 11 an A_PCK. The inner receptacle 21 is, the outer container 11 storage space 12 housed, trash-receiving space inside 23 having. Lid 31 is, the outer container 11 mounted on top of, centrally apertured 33 having. Garbage accommodating space 23 is, and reciprocally movable vertically restoring mechanism 41 recoverable garbage compression Pedal in the upwards direction 51 outgo is provided. Trash is, the trash compression Pedal 51 by depressing the foot pedal to compress trash 51 at the bottom can be compressed trash. Furthermore, reduce the trash container of a member constituting, is simple in construction. Moreover, restoring mechanism 41 lid 31 during assembly, the support member 48 lid 31 attached to the bottom of the roller by 45 can be fixed at the same time. Therefore, the assembly is easy, assembling steps can be reduced. SELECTED DRAWING: Fig. 1				
				
33.	Stationary or mobile container (versions)	RU2011146849	2013-06-10	STAROVEROV NIKOLAJ EVGENEVICH
FIELD: packaging industry. SUBSTANCE: group of inventions relates to containers, primarily for debris. The container comprises a control element located on a separate base or on the container vessel, connected via the transmission assembly with the container lid and provided with energy accumulator, combined with the control element and having a form of pneumatic cell, connected by the tube to the transmission assembly in the form of a bellows. The bellows is connected by the pusher or the hinge to the container lid and has a check valve in the form of a ball or a cone with a rod in the tip of the cone, located in the opening in the lower conical part of the bellows. And the opening has a slit for the passage of air or the opening has a non-circular shape. According to another version, in the container, unlike the first one, the energy accumulator is made in the form of a sprung two-armed lever, one arm of which is attached to the control element in the form of a pedal, and its other arm by a rocker connection or an intermediate joint is connected to the related to the transmission assembly consisting of a rod with a damper. The damper has a shape of cylinder with a piston, in which the input and output rods and a piston are located in the cylinder and in the ends of the cylinder with a gap. The cylinder is secured to the container. In its lower part there is a check valve in the form of a washer, located with a gap on the output rod. EFFECT: group of inventions provides mitigation of closing the lid. 6 cl, 10 dwg				
				

34.

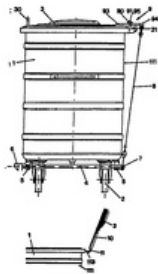
Lifter for refuse bin lid - has selectively removable stop lever preventing lid from moving too far back

CH675236

1990-09-14

VERWO

The **pedal-operated** lid (3) lift for a refuse container (1) has a stop lever (11) on the lid (3) which moves sideways by gravity out of the surface plane of the lid and abuts the rear **wall** (111) of the container, blocking the lid further motion. The stop lever can be moved back by hand if the lid is to be lowered further against the rear **wall** of the container. The stop lever is pref. of a toggle type, whose one arm (112) is displaceable longitudinally in a guide (10) on the lid near its swivel edge. **ADVANTAGE** - Improved safety during handling. @ (9pp Dwg.No.5/11)



35.

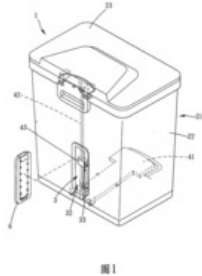
Cushioned garbage container

GB201620480

2017-01-18

MICHAEL SHEK
SHEK, MICHAEL

A **pedal** bin with a detachable cushioning element which dampens the closure of the lid and as such reduces the noise made when the lid closes. The garbage container includes a main body, comprising a barrel body and a cover which may be pivotally attached to the barrel body via an axel. The bin further comprises a linkage mechanism, connecting a **pedal** to a propping rod which opens the lid and a cushion element to slow the closure of the lid. There is a receiving space in the rear of the barrel body which exposes a portion of the propping rod and the cushion element such that the cushion element is accessible and can be easily replaced. There may be a cover to prevent dirt entering the receiving space. The cushioning element has a fixed portion and a movable portion, the fixed portion is detachably held in the receiving space, for example by a clip mechanism, whilst the movable portion is engaged with a driving member which connects to the propping rod. There may also be a cushion member between the lid and barrel body which allows the clamping of a refuse **bag** and may have an elastic layer to further quieten the closing of the lid.



36.

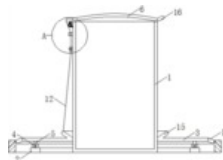
Be close to garbage bin from taking flip

CN208007813

2018-10-26

ZHEJIANG HUAMING
ENVIRONMENTAL PROTECTION
TECHNOLOGY

The utility model discloses a be close to garbage bin from taking flip, the left end of staving is equipped with the guide ring, and the free end of going up the wire drawing passes the guide ring and be connected with the shackle, articulated the couple on the shackle, and the other end of couple is connected with down the wire drawing, the other end of wire drawing is fixed on the footboard down, it is connected to change between the left end of board and staving expert over twisting spring. In using, portable rubbish, when being close to the staving, at first can step on annular footboard, the footboard moves down, the guide bar moves down along the guide cylinder, the wire drawing moved down under the footboard moved down and drives, thereby wire drawing in the pulling, pull -up silk ribbon operation board, thereby overcome the elasticity of torsional spring, open the bung, just so can directly put into rubbish, after the people has thrown away rubbish and has walked, the footboard has been left, under the effect of spring and torsional spring, the bung closes, just so need not initiatively to open the bung, directly throw away rubbish, use and more conveniently save trouble, the how inconvenient phenomenon of opening the bung of rubbish in the hand has been avoided, strong practicability.



37.

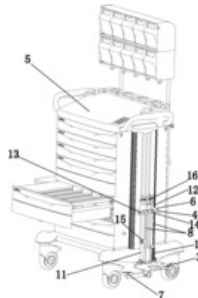
Footboard garbage bin for medical vehicle

CN205060591

2016-03-02

NANJING TIANAO MEDICAL
INSTRUMENT MANUFACTURE

The utility model provides a footboard garbage bin for medical vehicle, it includes staving (1) and bung (2), characterized by the bottom of staving (1) be located bottom plate (3), bottom plate (3) fix on the side of medical vehicle (5), hang post (4) install on fixed platform (6), be equipped with footboard (7) in the lower part of bottom plate (3) hinge, footboard (7) are connected with two ability synchronous motion actuating lever (8), and the upper end of actuating lever (8) offsets with the boss of uncapping (9) of bung (2) internal surface, two actuating lever (8) link to each other with the one end of reset spring (10) and air spring (11) respectively, the equal fixed mounting of the other end of reset spring and air spring (11) is in bottom plate (3), the air spring is used for slowing down the speed that the bung was opened and was closed, reset spring restores to the throne and provides power for the actuating lever moves down messenger's bung, fixed platform (6) install hinged block (12), bung (2) hinge dress is in hinged block (12) on. The utility model discloses simple structure, operation convenient to use.



38.

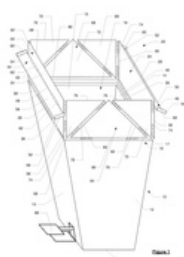
Expanding lid for a waste receptacle

WO2013/150307

2013-10-10

TANSELI AYDAN K
TANSELI AYDIN N

The expanding lid (20) comprises at least two lid members (22, 24) pivotally attached to opposed portions of the rim (16) of a waste receptacle (10) and pivotable between an open position and a closed position wherein the lid members (22, 24) are disposed substantially adjacent to each other. The expanding lid (20) further comprises at least two elongate, foldable side members (64, 66) having opposed ends with a body therebetween, the ends of each side member (64, 66) being pivotally attached between two lid members (22, 24). The lid members (22, 24) and side members (64, 66) define a perimeter (142) about which a refuse sack may be located. When the lid members (22, 24) move from the open position to the closed position, the side members (64, 66) fold inwardly, and the length of the perimeter (142) stays substantially the same.



39.

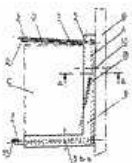
Container opener

FR2612156

1988-09-16

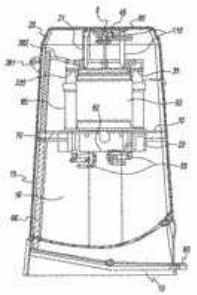
TTM SERRURERIE

The invention relates to a device making it possible to equip **containers** or waste **bins** of large capacity in such a way as to ensure the rapid opening of their lid when the latter is not carried out by its own or a dependent mechanism. It is constituted by a narrow frame 6 fixed at its top to a **wall** 8 which is assumed to be vertical. A control **pedal** 7 makes it possible, when it is pressed, to operate a lifting arm 1 which is normally attached to the lid D by a hook 2. The device according to the invention is particularly intended for opening waste **bins** or **containers** in an urban or industrial environment. <IMAGE>



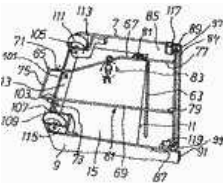
40.	Waste storage device	US20050044819	2005-03-03	EDGEWELL PERSONAL CARE BRANDS CHOMIK RICHARD S. EDGEWEL PERSONAL CARE BRANDS EDGEWELL PERSONAL CARE CANADA ULC EDGEWELL PERSONAL CAREBRANDS 4 more...
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The present invention discloses an automated sealing waste disposal apparatus using tubular material.



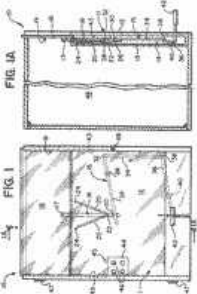
41.	Bin for collecting waste or recoverable material has foot operated mechanism for hinged lid comprising u-shaped hinged yoke with cross bar interconnecting ends and acting as step, and with other ends pivot-mounted on bin	DE10001820	2001-09-13	HAMMER LIT
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The bin for collecting waste or recoverable material has a foot operated mechanism(61) for the hinged lid comprising a U-shaped hinged yoke(65) with two parallel sides(67,69) interconnected at one end(71,73) by a cross bar(75) acting as a step, and by their other ends(77,79) mounted to pivot in the region of the rear side of the bin. An operating rod(63) acting upon the hinged lid is pivot-connected to one side(67) of the yoke with the connecting point(81) lying between the pivot point(83) of the yoke and the cross bar.



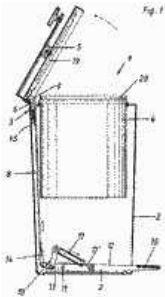
42.	Garbage disposal apparatus	US4765548	1988-08-23	SING PETER
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Garbage disposal apparatus of the type used in fast food restaurants for receiving refuse from food trays has a garbage-receiving cabinet with a vertically slidable door panel operated by a **pedal-actuated** mechanism, permitting two-handed handling of the food trays. The door panel is retracted by **pedal** action, leaving an unobstructed access opening available for assured, non-spilling sanitary dumping, as long as the **pedal** is depressed. The mechanism is supported protectedly and visibly in the space provided between two parallel vertical panels which together form the receiving cabinet front, the foremost of the two panels being transparent. Also positioned in the space between the two front panels is a sound-generating system, activated by the movement of either the door panel or the mechanism moving it.



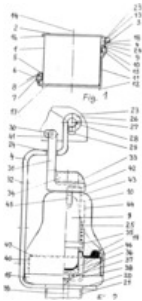
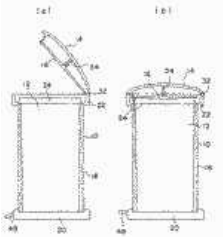
43.	Foot pedal operated refuse bin - has insert inside outer housing, with connecting bar between flap lid and pedal consisting of two armed lever	DE9015190	1991-02-28	LOEBBERT JOHANNES 4405 NOTTULN
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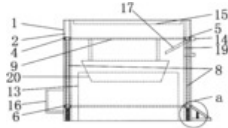
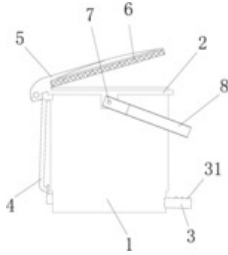
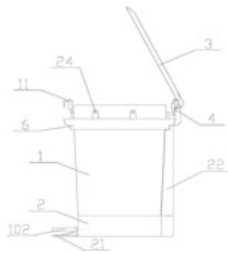
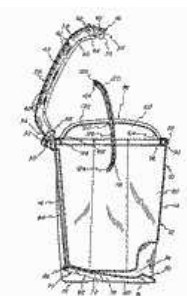
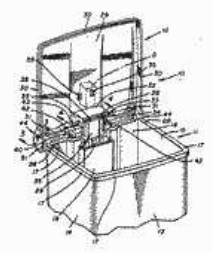
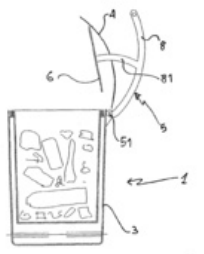
The rubbish-bin consists of a housing (2) open at the top, with an insert (4) suspended from the top rim (3). A lid-flap (5) is hinged to the housing's (2) rim (3) and is opened by a foot-**pedal** (7) in the form of a two-armed lever. The longer lever arm (12) on the foot **pedal** side (10), and the shorter lever-arm (13) on the connecting-bar (8) side, are mounted in the housing floor. The connecting-bar (8) is positioned on the edge inside the housing (2). A shock-absorber in the form of a piston-cylinder arrangement (17) is connected by an angled lever (18) to the **pedal**'s (7) shorter lever-arm (13). A tension-spring (15) preferably for conserving force is connected to the **pedal** (7) and/or the connecting-bar (8). ADVANTAGE - The mechanism for raising the bin-lid is connected to it by a hidden connecting-bar inside the housing. (From DE4132958 A1)

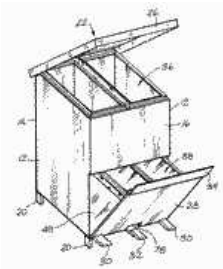
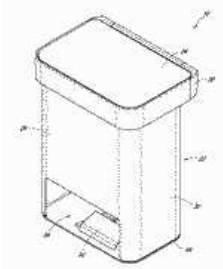
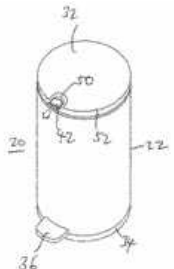
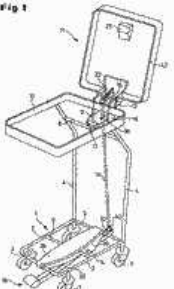
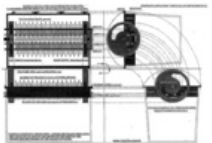


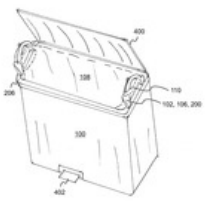
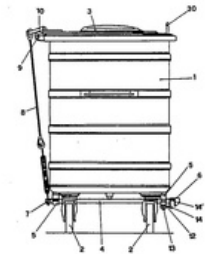
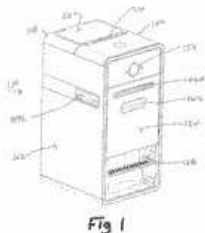
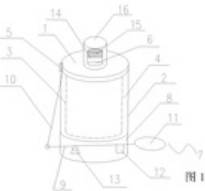
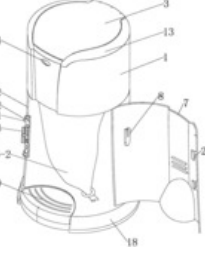
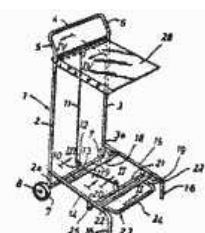
44.	Trash	JP3000365	1994-08-09	IRIS OHYAMA
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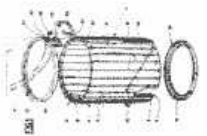
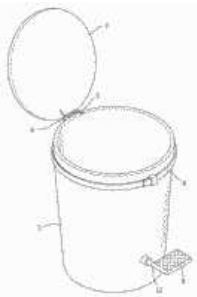
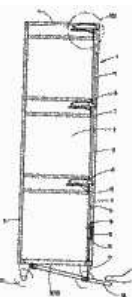
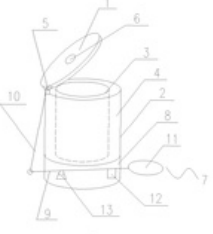
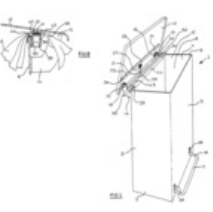
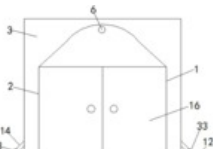
[Object] in the **pedal** pail immediately after the fluttering of the lid opening operation is prevented. PURPOSE: **Pedal** is coupled to the link to open the lid in a trash box. Event_proc body 1 to the main body side hinge 1 3 is provided, the lid 3 to the hinge portion of the lid 32 is provided, the lid 3 trash bin body 1 to pivotally supported. A hinge portion of the lid 32 to, the body side of the hinge part 13 pressed against the rear side of the lid 3 regulating the fully opened position of the visor section 33 is provided. In addition, the hinge portion of the lid 32 center of rotation of, the lid 3 with the operation of the opening, the hood 3 3 the back of, the lid hinge 32 by the elastic force, the body side of the hinge part 13 while being pressed against the upper ends of the sliding contact, and the lid 3 when fully open position, eaves 33 lid 3 is set as being biased toward the closing direction.

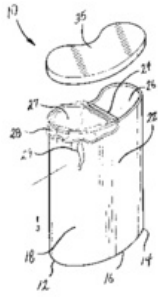
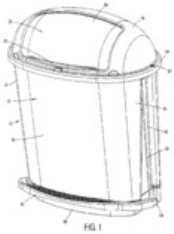
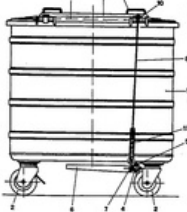
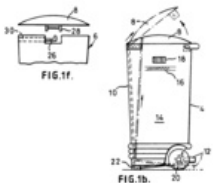
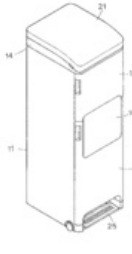
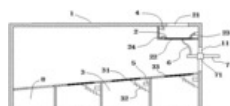
45.	Trash can assembly	EP2918518	2015-09-16	SIMPLEHUMAN	A trash can assembly (110) comprising a body (112) having an interior cavity and a connection base (165), the connection base comprising a receiving area (G) and an opening, a lid assembly (113) configured to couple and decouple with the body, the lid assembly comprising a lid (114), a trim ring (115), and a hinge unit (116) comprising a locating portion (149) and a slidable connection member (161, 161A) that is movable between a first position and a second position, the connection member being biased toward the first position, wherein when the slidable connection member is in the first position, the hinge unit configured to be selectively received in the receiving area of the connection base of the body and to be separable from the body, and when the slidable connection member is in the second position and the hinge unit is received in the receiving area, the connection member is engaged with the opening of the connection base of the body. 
46.	No title available	DE8328948	1990-04-05	LOEBBERT DIETER LOEBBERT JOHANNES SCHULZE FRENKING AUGUST 4405 NOTTULN	No abstract available 
47.	Receptacle for a contaminant	EP1925570	2008-05-28	COMBICRAFT ENTPR COMBICRAFT ENTERPRISES COMBICRAFT ENTERPRISES INK HONG KONG YAUMATI KOWLOON	An apparatus (1) for receiving and storing a soiled item has a container (4a-4d) and a cover (3), which can be rotated about spindles (16). The cover (3) comprises a casing (7) in which a moveable body (8) can move to and fro. The moveable body is placed inside a compartment (19) at the closed end of a flexible holder (18). A soiled item can be put inside the casing (7) and subsequently the cover (3) can be rotated around spindles (16). The moveable body (8) will fall downwards under the force of gravity, pushing the soiled item inside the container (4a-4d). The flexible holder (18) is fixed inside the casing (7) with a firm closed elastic band (21) at the location of the rim (20) of its open end. 
48.	Bin lid lifting assembly	WO01/60719	2001-08-23	ONSHOT	A bin (1) for holding rubbish for collection that includes a lid (7) and wheels, where there is included a step (16), a lever arm (17) and a push rod (26) so that with depression of the step by a user the push rod can be pushed through an aperture in a rim (6) of the bin and effect an opening of the bin. The invention also extends to a kit of parts for this purpose. 
49.	Garbage bin and lid for container	WO2008/023411	2008-02-28	ADD FIELD ADDFIELD	A garbage bin where, when the opening of a container in which garbage is placed is closed by a lid, odor emanating from the garbage does not leak to the outside from a gap between the container and the lid. The garbage bin has an outer container (10), an inner container (12) placed inside the outer container and in which garbage is placed, an openable/closable outer lid (14) pivotally attached to the outer container and closing the opening of the outer container, and an inner lid (16) attached to the lower surface of the outer lid and moving together with the outer lid. The lower surface of the inner lid is in intimate contact with the upper end of the inner container when the opening of the outer container is closed by the outer lid. 

50.	Art landscape trash can	CN205345946	2016-06-29	SHAANXI UNIVERSITY OF TECHNOLOGY	
The utility model discloses an art landscape trash can, which comprises a housin, the both sides of casing all are equipped with vertical slide, all install first sliding plate on sliding plate, the second, first sliding plate and the second sliding plate gone up through the pulley in the slide, the sliding plate is installed on first sliding plate and second sliding plate through vertical connecting rod respectively on first upward sliding plate and the second, the below fixed mounting of sliding plate has the baffle on the second, the bottom of casing is installed the running -board and is placed the board, the lateral wall of casing is installed the plant and is planted the groove. Can be as required plant the inslot the plant and plant various plants, increase the cultivated area, put the entrance at rubbish and install the baffle that drives by the entire system structure, effectually solved the some owing to but throw away the problem of the pollution surrounding environment that results in throwing away rubbish at a distance to the garbage bin around the garbage bin, also reduced sanitationman's work load.					
51.	Novel household garbage bin	CN205526097	2016-08-31	ZHU WENTAO	
The utility model discloses a novel household garbage bin, including garbage bin body garbage bin body's top edge is provided with the barrel rim frame garbage bin body's below is provided with the footboard garbage bin body's bottom and side are provided with link mechanism, and set up the bung of garbage bin body upper segment, the footboard with link mechanism's one end links to each other, link mechanism's the other end with the bung links to each other, the inboard of bung is provided with the otter board of being made by the active carbon material, and be provided with the insect repellent on garbage bin body's the inner wall. The utility model has the advantages of simple structure and reasonable design, through being provided with footboard and link mechanism, be convenient for step on through the foot and control opening or closing of bung, through being provided with the otter board of making by the active carbon material, can adsorbing peculiar smell, through being provided with the insect repellent, can eliminate the insect.					
52.	No-bagging environment-friendly trash can	CN106697668	2017-05-24	CHANGZHOU QIANGHUI ELECTRICAL APPLIANCE	
The invention relates to a no-bagging environment-friendly trash can. The no-bagging environment-friendly trash can comprises a can body, a can seat, a can cap, a can cap open-close mechanism and a trash bag mouth fixing device. The can seat is fixed to the bottom of the can body through bolts, and the can cap is hinged to the can body; the trash bad fixing device is installed on the outer side of the upper portion of the can body and comprises a supporting disc and a fixing ring, wherein the supporting disc is fixed to the outer side of the upper portion of the can body, and the fixing ring is buckled on the supporting disc; the can open-close mechanism comprises a rotating piece which is detachably hinged to the can cap, the lower end of the rotating piece is hinged to a connecting rod, and the lower end of the connecting rod is hinged to a foot plate; and trash bag pull-out-available close-open structure is installed on the portion, opposite to the rotaling piece, of the opening edge of the can body. According to the environment-friendly trash can, the can cap open-close mechanism is adopted, and operation is convenient; a trash cap mouth is fixed to prevent the trash bag from falling into the can body; trash bag pulling out is quick and convenient; and when a whole bundle of trash bags are replaced, dismounting and mounting are easy, and the situation that hands of a person directly make contact with trash is effectively avoided.					
53.	Diaper container	WO93/04957	1993-03-18	GERRY BABY PRODUCTS GERRY BABY PRODUCTS THORNTON	
A diaper container (10) is provided having an exterior lid (28) and an interior flap member (112) wherein the lid and flap member are each provided with a filter element.The lid member is pivoted at a rear edge thereof to open the container and the flap member is pivoted at a central portion thereof and covers an opening for receiving diapers into the container.The pivotal movement of the flap member is limited in order to control dispersion of odors from the container.In addition, the body of the container is configured with its longest dimension in the front to rear direction whereby the container may be placed within narrow passages.					
54.	Step-on waste container	US5230525	1993-07-27	RUBBERMAID RABAAMEIDO COMMERCIAL PRODUCTS RUBBERMAID COMMERCIAL PRODUCTS	
A waste container (10) includes a base portion (11) having an open top to receive waste material therethrough and a cover (12) to close the open top. A pivotable pedal (22) is carried by the base portion (11) and has the lower end of a lifter bar (26) attached thereto. The top of the lifter bar (26) is bifurcated to form flexible tines (34) with a bearing member (35) therebetween. Pin members (36) extend outwardly from the tines (34) and are received in apertures (37) in a bracket (32) carried by the cover (12). The bracket (32) is also provided with ribs (38) to engage the bearing member (35) of the lifter bar (26). Fins (40) carried by the cover (12) also engage lugs (42) carried by the base portion (11). Sockets (44) formed on the cover (12) are aligned with knuckles (47) formed on the base portion (11) and together they receive hinge pins (50) therethrough so that upon pivoting of the pedal (22), the bearing member (35) of the lifter bar (26) engages the ribs (38) of the cover (12) to cause the cover (12) to rotate on the hinge pins (50) to thereby expose the open top of the base portion (11). The sockets (44) have a countersunk recess (45) to receive an enlarged head (51) of the hinge pins (50). A compressible lock barb (54) on the opposite end of hinge pins (50) holds hinge pins (50) in place.					
55.	Garbage container provided with a compactor	EP2014582	2009-01-14	SITES	
The present invention concerns a container (1) for wastes (2), in particular for collecting wastes in the domestic field.The container comprises a main body (3), a lid (4) associable to the main body and a compactor (5) provided with a pressing element (6), moveable within the main body (3) to compact the wastes (2) collected therein.The pressing element is manually operated from the outside of the container (1) through suitable mechanical means.Advantageously, the operating means comprises a lever (8, 9) which can be operated by the user to vary the vertical position and the inclination of the pressing element.					

56.	Multi-compartment container	US5090785	1992-02-25	STAMP JOHN R	A compartmentalized container of rectangular-like shape consisting of a lower and upper portion each of which contains at least one compartment for receiving material such as refuse. The upper and lower compartments are accessed by operation of pedals operating on the top lid of the container and the lower front panel of the container respectively. This allows hands-free use of all the compartments for segregating refuse into reusable or recyclable components, such as bottles, papers, or cans. The container is designed to use surplus grocery and shopping bags in addition to normal garbage bags in the containment and disposal process.	
57.	Trash cans with adaptive dampening	US20180305120	2018-10-25	SIMPLEHUMAN	Various trash can assemblies are disclosed. The trash can assembly can include a body and a lid that is movable between open and closed positions. The trash can assembly can be provided with a resistive load control system that controls the rate of movement of the lid from the open position toward the closed position and/or from the closed position toward the open position. The trash can assembly can be provided with an energy recapture system that translates mechanical energy into electrical energy through an electric generator. The electrical energy can be provided to other components of the trash can assembly, such as an ion generator that discharges ions into an interior of the trash can assembly to provide odor control.	
58.	Trash can assembly with locking lid	EP1724216	2006-11-22	SIMPLEHUMAN	A trash can assembly (20) has a shell (22) and a lid (32) fitted over the top end of the shell (22). The lid (32) has a slidable lock member (42) that is removably engaged to a portion of the shell (22) to prevent the lid (32) from being opened.	
59.	Tubular frame for open-topped receptacles	EP1020373	2000-07-19	HAMMER LIT	The tubular frame has a hinged lid (11) and a bearing block (15) at the back. An operating rod (19) engages on a projection (23) on the hinge part (12) spaced from the hinged axis (16) and strikes the lid (11). A foot lever (18) mounted in the base area of the frame engages on the operating rod (19). The bearing block comprises an angular member whose horizontal arm is fixed by a screw clip (17) on a perpendicular support strut (9) leading to a support ring (10).	
60.	Grinding container for the selective collection of solid urban waste and various special adaptations for each type of waste, including a domestic grinding container	EP2143495	2010-01-13	JESUS PEREZ SANTAFE Jesse Perez	This specialized domestic grinding containers system, the manual version of which is completely environmentally friendly, allows us to reduce the excessive amount of varied urban waste generated by daily consumption, using a system of piercing/crushing blades which are set transversely on their supporting shafts and which, when sufficiently locked together, enable waste to be reduced to one-fifth of the initial volume thereof by specially arranging the shafts and using different types of blades and hammers for each type of waste (plastic, cans, tetra bricks, paper, glass, organic material and another combined blade system for reject waste). The system is essentially characterized in that the movement of the blades is produced by a particular system of gearwheels which, in the manual version, are actuated by opening the upper lid which, facilitated by a simple pedal which assists in opening said lid, actuates the lateral toothed cylinders located inside the container which in turn actuate the gearwheels located inside each of the lateral cylinders which, located at each of the ends of the four blade shafts thereof, rotate the shafts in a special manner in order to actuate a grinding function and to draw waste into the container, greatly reducing the volume thereof. The specialized manual and electric grinding containers and the different stationary and mobile embodiments intended for domestic use reduce the significant time and monetary costs involved in transporting said waste both from homes to containers on public roads and from such public containers to the respective recycling plants thereof. Waste recycling plays a role in preventing the transformation of more natural resources and reducing the abuse of more scarce natural resources and is facilitated through the use of these specific types of grinding containers having the aforementioned specialized blade systems. Thanks to the dual function comprising the lateral oblique torsion and elastic rotation of each blade independently of one another, said containers can help to achieve the recycling objectives imposed by Directive 2004/12/Econ the member states of the European Union, in its second transposition phase, and all that is needed is the will to grind waste (FIGS. 2.2 and 2.3). (From US2010282885 A1)	

61.	Trash can with handles that graspably support a recycled plastic shopping bag as a liner	WO2012/064598	2012-05-18	BANUS CHRISTOPHER T	A trash receptacle is configured to use a shopping bag as a liner by hanging the shopping bag handles over handles or other extensions of the trash receptacle. Separating features such as protruding handle appendages and/or recessed or horizontally offset receptacle rims provide grasping spaces below the suspended bag handles into which a user's hands can be inserted for easy grasping of the bag handles during bag removal. The receptacle extensions can be fixed or removably attachable to the trash receptacle, or can be fixed to a removable receptacle adaptor. They can be curved and/or slanted inward. They can pivot inward during bag removal to relieve strain on the bag handles. Pivoting handles can be conveniently released by a foot pedal or by actuating a hand trigger while lifting the bag handles. A receptacle lid can be included, and a foot pedal can be used to operate the lid. 
62.	Wheeled container with foot operated flap-up lid - has pedal with springy return piece as plate or spiral spring with pivot axle	CH676835	1991-03-15	VERWO	The wheeled container (1) has a foot-operated, flap-up lid and, near the ground, a pedal (6) with sprung return-piece in the form of a plate-spring or spiral spring on the pedal's (6) pivot axle (4). One end of the spring touches a fixed part of the container, and the other end touches the pedal. USE/ADVANTAGE - The container, especially for household rubbish-bags, has a pedal with a return piece. 
63.	Receptacle for recyclables	WO2009/114582	2009-09-17	VERDE HOME PRODUCTS	A receptacle is disclosed having a plurality of individually removable bins for receiving and containing various types of recyclable materials. A first removable bin is used for receiving and containing compacted recyclables. A compacting jaw receives and compacts selected recyclables and deposits them into the first bin. Additional bins are included for separately receiving and containing non-compactable recyclable materials such as newspapers and glass articles. A foot pedal is actuated to cause the compacting jaw to compact the selected recyclables, and the bins and compacting mechanisms are strategically disposed and arranged to reduce receptacle volume. A deflector adjacent the compactor has a retaining position for retaining the selected recyclables in the compactor prior to compacting and a directing position for directing the recyclables into the first bin after compacting. 
64.	Multi-functional rubbish bin	WO2018/223298	2018-12-13	XU WEI	Disclosed is a multi-functional rubbish bin, comprising a bin body and a pedal mechanism, wherein the bin body comprises a bin lid (1), an outer bin (2) and an inner bin (3), activated carbon (4) is filled between the outer bin (2) and the inner bin (3), the bin lid (1) is provided with an opening (6), a flytrap (14) covers the opening (6), a net bag (15) is mounted inside the flytrap (14), and an outer cover (16) is provided on the outside of the flytrap (14). The pedal mechanism comprises a pedal rod (7), a fixing base (8), a lever (9) and a connecting rod (10), wherein the fixing base (8) is provided with a square hole; the pedal rod (7) comprises a pedal board (11); the pedal rod (7) is horizontally mounted in the square hole of the fixing base (8) and extends the pedal board (11) outside a side wall; one end of the lever (9) is connected to the pedal rod (11), the other end is connected to the connecting rod (10), and the middle is connected to the fixing base (8) via a fulcrum (13); and the connecting rod (10) is longitudinally provided outside the bin body, and the other end of the connecting rod (10) is connected to the bin lid (1). The multi-functional rubbish bin can remove peculiar smells and flies, is convenient for hygiene purposes and can be used multiple times. 
65.	Wastebasket	KR20170129600	2017-11-27	SUPREME MERCHANT GUILD	The present invention provides a wastebasket, which is provided with a trash bag in a wastebasket body, provided with a trash inlet on an upper portion of the wastebasket body, and provided with an upper lid configured to close or open the trash inlet. A supporting frame is arranged in the wastebasket body of the wastebasket, and the trash bag has a long tubular shape such that standby trash bags overlap continuously and are fitted to the outside of the supporting frame. A trash bag in use penetrates a through hole of the supporting frame to be arranged on the inside of the supporting frame. The supporting frame opens a trash bag inlet portion, and the bottom of the trash bag is sealed in a knotted method. When the trash bag is pulled, the long tubular-shaped trash bag is pulled out from the through hole of the supporting frame, and the wastebasket body consists of an upper wastebasket body and a lower wastebasket body, wherein the supporting frame is located in the upper wastebasket body, and a door which can be opened through rotation is arranged on the lower wastebasket body. In addition, a cutting blade used for cutting a trash bag is arranged on the inside of the door. According to the present invention, standby trash bags can be stored in the wastebasket, the standby trash bags are not polluted after a trash bag is damaged, and replacing of the trash bag is very convenient. 
66.	Support for an open container	EP0248374	1987-12-09	HAMMERLIT HAMMER LIT HAMMERLIT 2950 LEER	1. A standing frame for containers with top openings, comprising a lid (28) able to pivot about a pivot pin (29) in the upper part of the frame, a pivoting pedal (23) on the front side of the frame for opening and closing the lid (28) and an actuating linkage (10, 11 and 27) on the back side of the frame for the transmission of the pivoting motion of the pedal (23) to the lid (28), with which there is fixedly connected a head or first arm (27) which by means of its free end engages a vertical or generally vertical pull rod (11) of the actuating linkage, the lower end of the pull rod (11) being connected in a rotatable manner with a second arm (10) by a shaft (8) or bushing able to be turned by the pedal (23) or of a bushing (9) able to be moved longitudinally by the pedal with the aid of a fork linkage or of a crank drive, characterized in that when the lid (28) is closed the second arm (10) assumes a vertical or generally vertical position in line with the pull rod (11) and the lid (28) assumes a first, inclined self-closing open setting, in which the pull rod (11) and the pivot pin (29), about which the lid (28) is able to pivot, are in a dead center setting and the lid (28) is able to be pivoted past this first open setting into a second open setting, in which it is able to remain. 
67.	Constructive disposal applied the container with [acionavel] cover the pedal	BR7100018	1992-09-15	BELLANDI FERDINANDO L	, basically understanding a tubular body (10) with superior edges (11) and inferiors (12) rounded off for inside, Sendo that on the edges superior [apoa] a movable embroidery frame (15) and next to the inferior edges (12) sets one l smelt (17), which [inferiamente] incorporates a support for [basculavel] setting of a pedal (19) endowed with a wing (20) of hooped posterior edge; a cover (21) provided with a posterior projection (22) incorporating one scores horizontal (23) this [inferiamente] involved Sendo projection for an alveolus (13); e a wire of nylon (14) sliding enters the horizontal plate (23) of the cover (21) and the wing (20) of the pedal (19)

68.	Trash can be assembled produced by snapping off shaped elements	DE8012284	1980-08-14	MELICONI, LORIS, BOLOGNA, IT	
(DE3017264)					
Waste bucket type container made from assembled elements made up into a cylindrical body in which a basket or bag holding the waste is inserted. The waste bucket is fitted with a lid operated by foot pressure through a lever-rod system. The side wall of the container consists of a row of slats positioned next to each other and there is an intermediate space on both the upper and the lower edge extending over the whole of the edges, with the side wall being made stable and closed off by a first element which is fitted with a circular projection all round and which is inserted into the intermediate space positioned at the upper edge. A similar element is also fitted to the lower edge of the container.					
69.	Trash can for weighted system envelope	KR20170004921	2017-01-11	PARK, JAE SEOK	
The present invention provides a wastebasket for a volume-rate disposal bag , to provide convenience when waste is inserted into the volume-rate disposal bag collected by receiving a predetermined amount of waste, and to prevent the bag from being torn or remove difficulty in withdrawal when an upper part of the bag is bound and the bag is pulled out from the wastebasket. According to the present invention, the wastebasket comprises: a torsion spring (5) installing both end parts to a hinge (4) shaft allowing a lid (3) to perform angular motion, so as to be elastically locked to the wastebasket (1) and the lid (3); a rotation support member (9) installed on an internal central bottom of the wastebasket (1); a disc (10) fixed in an upper part of the rotation support member (9) and having an arc-shaped gear (11) in one side lower part; a pedal (8) axially installing a pedal shaft (12) having a flat gear (13) engaged with the arc-shaped gear (11) by being exposed outside the wastebasket (1), so as to be installed in an end part thereof; a plurality of lifting/lowering lever (14) installed in the disc (10) by a shaft pin; a lifting/lowering plate (15) installing a top art of the lifting/lowering lever (14) by the shaft pin; and a guiderail (16) installed on inner wall surface of the wastebasket (1) to guide lifting/lowering of a guider (17) formed on one side of the lifting/lowering plate (15).					
70.	- used material collection cabinet and waste	DE29807374	1998-07-16	STUMPF METALLWAREN	
The cupboard has several receiving containers , each accessible via a closing element. The closing elements can be opened together and simultaneously by a foot-operated mechanism. The closing elements (8) are pivoted at the bottom to operating rods (11). The operating rods move upwards during opening. The top ends of the rods are guided by rollers in curved guides (13) in the side walls (2). The rods are also fixed to a transverse rod (14) movable by a cable (15) connected via a pulley (16) to a pedal . The pulley is linked to another cable (17) rolled on it in the opposite direction to the first one. (From DE19819864 C1)					
71.	Fly-killing rubbish bin	WO2018/223299	2018-12-13	XU WEI	
Disclosed is a fly-killing rubbish bin comprising a bin body and a pedal mechanism, wherein the bin body comprises a bin lid (1), an outer bin (2) and an inner bin (3), activated carbon (4) is filled between the outer bin (2) and the inner bin (3), and an inner side of the bin lid (1) is equipped with a medicine spraying device (14), a power source (15), and a medicine spraying controller (16) connected to the medicine spraying device (14). The pedal mechanism comprises a pedal rod (7), a fixing base (8), a lever (9) and a connecting rod (10), wherein the fixing base (8) is provided with a square hole; the pedal rod (7) comprises a pedal board (11); the pedal rod (7) is horizontally mounted in the square hole of the fixing base (8) and extends the pedal board (11) outside a side wall ; one end of the lever (9) is connected to the pedal rod (11), the other end is connected to the connecting rod (10), and the middle is connected to the fixing base (8) via a fulcrum (13); and the connecting rod (10) is longitudinally provided outside the bin body, and the other end of the connecting rod (10) is connected to the bin lid (1). The fly-killing rubbish bin can kill flies and remove peculiar smells, and is convenient for hygiene purposes.					
图 1					
72.	A refuse bag holder	GB8808727	1988-05-18	CONWAY JAMES PATRICK	
The invention provides a bin (1) for supporting a refuse bag (2) of plastics material. The bin (1) comprises a housing (3) having a base, front, rear and side walls (5, 6 and 7), the upper portion (9) of which define an open mouth (10). A lid (12) operable by a foot pedal (17) closes the open mouth (10). A pair of sealing dies (30, 31) are provided for sealing the open end (58) of the bag (2) when it is full. The die (30) is heated and is mounted on the top edge (9) of the rear panel (6). The die (31) forms a pressure plate and is provided on the lid (12), so that when the lid (12) is closed, the dies (30, 31) are brought together to seal the open end (58) of a bag (2) sandwiched therebetween.					
73.	Pedaling type plastic community environmental sanitation garbage can	CN107985862	2018-05-04	HE YONGPING	
The invention discloses a pedaling type plastic community environmental sanitation garbage can. The pedaling type plastic community environmental sanitation garbage can comprises a shell. The shell comprises a first protection shell and a second protection shell. The first protection shell is fixed to one side of the second protection shell. Two garbage can bodies are arranged in the first protection shell. An arc sealing roof is arranged on the first protection shell and provided with a garbage inlet. A first movable shaft is arranged in the garbage inlet in the first protection shell. The first movable shaft is sleeved with a movable barrel. The movable barrel penetrates the second protection shell. The end, located in the second protection shell, of the movable barrel is provided with a first disc, and the side, away from the movable barrel, of the first disc is provided with a first annular rack. The probability that waste water is splashed to related personnel is greatly reduced;the two garbage can bodies are arranged so that the garbage storage amount can be greatly increased, and the frequency that related personnel clean the garbage can bodies is reduced; and the structureis simple, and operation is convenient.					

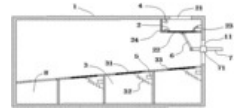
74.	Storage container with multiple divided compartments	US6530495	2003-03-11	JOSEPH JUNE G.	A divided storage container includes an elongated arcuate base having first and second rounded ends, and opposing inwardly and outwardly curved perimeter portions extending between the ends. An upstanding container wall cooperates with the base to define an enclosure having an open top for receiving items for storage. The container wall has a concave surface extending upwardly from the inwardly curved perimeter portion of the base to the open top of the enclosure. A vertical divider is attached to the container wall for dividing the enclosure into separate adjacent compartments. A supplemental item holder is attached to the concave surface of the container wall outside of the enclosure, and defines a third compartment for receiving and storing items. The first and second ends of the arcuate base cooperate to stabilize the container on a supporting surface when the third compartment is filled.	
75.	Refuse container with roll-back lid	US5881896	1999-03-16	RUBBERMAID RABAAMEIDO COMMERCIAL PRODUCTS	A refuse container (10) includes an open-top receptacle (12) that is selectively closed by a removable hood (14). The hood (14) carries a roll-back door (22) that is operatively connected to a foot pedal (16) by a pair of lifters (18). The container (10) is designed so that the door (22) rolls back to an open position when the foot pedal (16) is depressed. The connection between the foot pedal (16) and the door (22) allows the hood (14) to be removed from the receptacle (12) without requiring the user to disconnect the linkage. As such, the linkage is automatically disassembled when the hood (14) is removed and automatically reassembled when the hood (14) is placed on the receptacle (12). The connection generally includes an engagement bar (70) that projects from an upper end of each lifter (18). The door (22) has a pair of arms (88) that each have a slot (84) therein. When the hood (14) is placed on the receptacle (12), the slots (86) engage the engagement bars (70). When the pedal (16) is depressed, the lifters (18) force the engagement bars (70) into the slots (86) causing the arms (88) to pivot about pivot pins (92) thus rolling the door (22) back into the hood (14).	
76.	Container with pedal actuated, swivel lid - has non-destructible overload protection in pedal region	CH676836	1991-03-15	VERWO	The container (1) has a pedal (6) actuated swivel lid (3) fixed to one side or floor of the container. Near the pedal is an indestructible overload protection (11), whose the force matches at least the load exerted onto the lid. The protection tensile spring is positioned in a rod or cable (8) and transmits the min. permissible load or tensile stress and extends up to the max. permissible load of the operated pedal. USE/ADVANTAGE - For full refuse bags, with protection against lid opening mechanism damage.	
77.	Waste disposal	GB9100159	1991-02-20	MEDICAL WASTE INTERNATIONAL	(GB2252316) A system for the disposal of medical waste comprises providing a plurality of rigid plastics containers having lockable lids 8 and foot pedals 12. The containers are filled in site and then the lids locked for transport. The containers are transferred to a waste disposal plant where they are emptied and cleansed before being returned to the site. The containers carry a bar code 18 to identify at least the user of the container so that the amount of waste processed for that user can be recorded. To lock the lids, a hook 26 is spring loaded or rotated manually to grip a loop 28 on the lid. The hook is released by inserting a key into the tunnel 30 to engage and rotate the hook. <IMAGE>	
78.	Pedal type dustbin structure	US6000569	1999-12-14	CHING-RONG LIU	A pedal type dustbin structure, especially such a dustbin structure wherein a lid can be closed slowly to prevent the lid from emitting noise of collision during down closing thereof is disclosed. The dustbin is comprised of a receiving main body and an operating member, wherein, the receiving main body is comprised of a main frame, a top frame, an upper pulling door, a lower pulling door and two receiving bins. Further, the operating member is comprised of a lid, an operating rod, a cylindrical-member fixing-seat, an air-controlled member and a pedal. Wherein, the pedal can control up/down movement of the operating rod to lift and close the lid. The relative movement between the cylindrical-member fixing-seat and the air-controlled member makes slow down closing of the lid, so that noise of collision during down closing of the lid can be prevented. The dustbin is designed to have two receiving bins in the main frame, thus an object of classification of garbage can be obtained. Provision of the lid and the upper and lower pulling doors can get the effect of stink removing and insect proofing.	
79.	Intelligent comprehensive classification dustbin	CN106005809	2016-10-12	TAIZHOU LANHAI ENVIRONMENTAL PROTECTION TECHNOLOGY	The invention provides an intelligent comprehensive classification dustbin. The condition of wrong throwing of garbage is reduced. The intelligent comprehensive classification dustbin comprises a dustbin body, a garbage throwing bin, a plurality of garbage classified storage bins and a comprehensive storage bin are arranged in the dustbin body, the garbage throwing bin is provided with a sensor capable of identifying colors of garbage bags, the garbage classified storage bins and the comprehensive storage bin are arranged along one straight line, and the tops of the garbage classified storage bins and the top of the comprehensive storage bin are connected to form an inclined sliding way; the comprehensive storage bin is located on one side of the lowest end of the sliding way, an opening is formed in the top of the comprehensive storage bin, an automatic opening and closing door connected with the sensor is arranged on the top of each garbage classified storage bin, and the automatic opening and closing doors of the multiple garbage classified storage bins are alternatively opened according to color information sent by the sensor; and a garbage throwing opening is formed in the top of the garbage throwing bin, a garbage throwing door manually controlled is arranged at the bottom of the garbage throwing bin, and a switch of the garbage throwing door is located on the outer portion of the dustbin; and the position of the garbage throwing door corresponds to the starting point of the upper end of the sliding way.	

80. [Intelligent comprehensive classification dustbin](#) CN105947470

2016-09-21

TAIZHOU LANHAI ENVIRONMENTAL PROTECTION TECHNOLOGY

The invention provides an intelligent comprehensive classification dustbin to reduce the situation that garbage is put into dustbins by mistake. The intelligent comprehensive classification dustbin comprises a garbage inlet bin, a plurality of garbage classified storage **bins** and a comprehensive storage bin, wherein a sensor capable of identifying colors of garbage **bags** is arranged in the garbage inlet bin; the garbage classified storage **bins** and the comprehensive storage bin are arranged along a straight line; the tops of the garbage classified storage **bins** and the comprehensive storage bin are connected to form an inclining slideway; the comprehensive storage bin is located at the lowest end of the slideway; an opening is formed in the top of the comprehensive storage bin; automatic opening/closing doors connected with the sensor are arranged at the tops of the garbage classified storage **bins**; one of the automatic opening/closing doors of the garbage classified storage **bins** opens according to the color that the sensor sends out; a garbage inlet is formed in the top of the garbage inlet bin; a manually-controlled garbage inlet door is arranged at the bottom of the garbage inlet bin; and a switch of the garbage inlet door is located outside the dustbin; and the position of the garbage inlet door corresponds to a starting point at the upper end of the slideway.



81. [Sealed vessel having cover switchgear](#) JPH01213163

1989-08-25

Cai Qing

PURPOSE: To keep the environmental hygiene and to easily take in and out the trash **bag** by keeping a container with closure in a sealed condition by a main spring, semi-opening the closure by **pedalling**, and fully opening the closure by pulling a stopper pin off in the **pedalling** condition. CONSTITUTION: When a **pedal** 40 of a foot lever 41 is worked, a spring lever 44 is separated from a hook lever 42d first, and then a closure 3 is semi-opened by a closure push-up rod 42. The closure 3 is closed when the **pedal** 40 is released, and the sealing condition of the closure 3 is held by a main spring 45 for preventing the invasion of insects and the exhalation of odor. When a stopper pin 44c of the spring lever 44 is pulled out and the **pedal** 40 is fully worked, the closure 3 is fully opened, and further the closure 3 can be held in the full-opened position by the action of torque to the spring lever 44 of the main spring 45 even though the foot is left from the **pedal** 40, which makes the replacement of a plastic **bag** easy. After the replacement of the **bag**, the closure 3 is closed by a hand, and the stopper pin 44c is inserted whereby the closure can be returned to the closed condition.

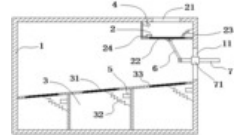
82. [Intelligent classifying dustbin](#)

CN106005811

2016-10-12

TAIZHOU LANHAI ENVIRONMENTAL PROTECTION TECHNOLOGY

The invention aims at providing an intelligent classifying dustbin. The condition of wrong throwing of garbage is reduced. The intelligent classifying dustbin comprises a dustbin body, and is characterized in that a garbage throwing bin and a plurality of garbage classified storage **bins** are arranged in the dustbin body; the garbage throwing bin is provided with a sensor capable of identifying colors of garbage **bags**, the garbage classified storage **bins** are arranged along one straight line, and the tops of the garbage classified storage **bins** are connected to form an inclined sliding way; an automatic opening and closing door connected with the sensor is arranged on the top of each garbage classified storage bin, and the automatic opening and closing doors of the multiple garbage classified storage **bins** are alternatively opened according to color information sent by the sensor; and a garbage throwing opening is formed in the top of the garbage throwing bin, a garbage throwing door manually controlled is arranged at the bottom of the garbage throwing bin, and a switch of the garbage throwing door is located on the outer portion of the dustbin; and the position of the garbage throwing door corresponds to the starting point of the upper end of the sliding way. The manner of combining manual control with automatic identifying is adopted, and garbage classifying is accurate, convenient and rapid.

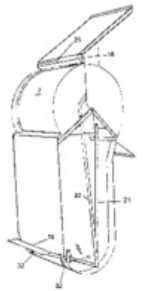


83. [Garbage deposit with a safety collector](#) EP1193193

2002-04-03

IGNACIO RAMIREZ SALCEDO

Deposit for garbage that it goes embedded in a **wall** or grille of a house or property and that it is made up of a deposit, a collector of garbage, an external access from the public road constituted by a window properly framed through which the garbage is picked up; an interior access from the property to deposit the garbage and an internal access of the collector toward the deposit that contains the garbage whose characteristic is the one of having a system of floodgates, one for the access external "external floodgate", two floodgates for the access interior "interior floodgate" and "internal floodgate" and a floodgate for the access internal "internal floodgate" (the same one that for the internal access) and because to pick up the garbage from the exterior, the external floodgate opens up by means of a handle and to deposit the garbage internally, they open up the floodgates interior and it inters by means of a **pedal** located in the inferior part of the deposit. <IMAGE>

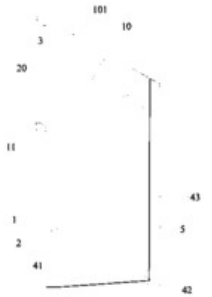


84. [Domestic garbage bin with prevent odor function](#) CN205087406

2016-03-16

CHONGQING YUEFA DAILY NECESSITIES

The utility model provides a domestic garbage bin with prevent odor function, including open outer bucket in upper end and interior bucket, interior bucket place outer bucket in, it has outer bung still to articulate on the upper end bucket **wall** of outer bucket for the upper end that covers outer bucket is uncovered. It has interior bung still to articulate on the upper end bucket **wall** of interior bucket for the upper end of bucket is uncovered in coveing, the uncovered bevel shaped that is in upper end of outer bucket, this inclined plane the highest one end on erecting the direction be the articulated department of outer barrel of bung outside with, minimum one end and with it the corresponding position of the outer bung of correspondence be provided with a plurality of disposal **bag** fixing device respectively for the opening of fixed disposal **bag**, the articulated department of interior bucket and interior bung want to correspond with the position of the articulated department of outer barrel and outer bung, interior bung and outer bung between connect through draw gear to the bung opens and shuts with outer bung in step in realizing. The utility model has the advantages of convenient cover disposal **bag**, prevent that the peculiar smell from giving off and breeding the mould.

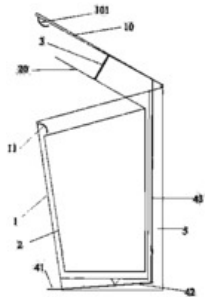


85. [Household garbage can with undesirable odor preventing function](#) CN105197471

2015-12-30

CHONGQING YUEFA DAILY NECESSITIES

The invention provides a household garbage can with an undesirable odor preventing function. The household garbage can comprises an outer can and an inner can which adopt upper end openings, wherein the inner can is placed in the outer can; an outer can cover is also hinged to the can **wall** at the upper end of the outer can, and is used for covering the upper end opening of the outer can; an inner can cover is also hinged to the can **wall** at the upper end of the inner can, and is used for covering the upper end opening of the inner can; the upper end opening of the outer can is in the shape of an inclined plane; the highest end in the vertical direction of the inclined plane is the hinged part of the outer can and the outer can cover; a plurality of garbage **bag** fixing devices are respectively arranged at the lowest end in the vertical direction of the inclined plane and at the corresponding position, corresponding to the lowest end, of the outer can cover, and are used for fixing the opening of a garbage **bag**; the hinged part of the inner can and the inner can cover correspond to that of the outer can and the outer can cover; the inner can cover and the outer can cover are connected through a traction device to realize synchronous opening and closing of the inner can cover and the outer can cover. The household garbage has the advantages that the garbage **bag** can be conveniently covered, and undesirable odor emission and mould breeding can be prevented.

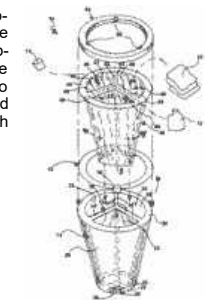


86. [Compartmentalized trash can for sorting and storing different kinds of recyclables](#) US6378721

2002-04-30

WILLIAMS KEITH

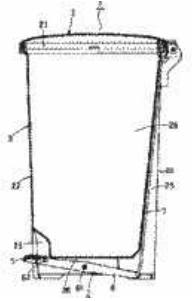
A compartmentalized trash can for sorting and storing different kinds of recyclables. A plurality of partitions are disposed in, and divide, a container into a plurality of sub-chambers. A lid is hingedly attached to, and selectively opens and closes the container. An apparatus opens the lid by use of a foot of a user. A liner **bag** removably lines the container and is defined by a peripheral flange, and includes a plurality of sub-liner **bags** that are formed together as one piece, with each sub-liner **bag** lining an associated sub-chamber. Each sub-liner **bag** is defined by a flange. The flanges of adjacent sub-liner **bags** are common, and solely by themselves, without any other attachments, attach the plurality of sub-liner **bags** to each other. The flanges of the plurality of sub-liner **bags** are divided lengthwise by perforations. When the plurality of sub-liner **bags** are inserted into associated sub-chambers, and the peripheral flange of the liner **bag** rests on the container, and the flanges of the plurality of sub-liner **bags** rest on the plurality of partitions, and the plurality of sub-liner **bags** become filled with the different kinds of recyclable, then the perforations in the plurality of sub-liner **bags** are severed, separating them from each other for independent removable, closing, and processing. A hoop removably secures the peripheral flange of the liner **bag** onto the container, prior to removal thereof.



87. Packing structure for **pedal** opening type refuse container JPH11292209

1999-10-26 5 SEKISUI CHEMICAL

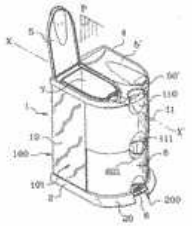
PROBLEM TO BE SOLVED: To collectively pack many **pedal** opening type refuse **containers** in a compact size by stacking the **containers** with the whole **pedal** inserted in a recessed part thereof and with the lower end of the container fitted in the container main body of the other container. SOLUTION: A **pedal** 5 is rotatably pivoted on the tip of an operating rod 6, so that when turned to be raised, the whole of the **pedal** 5 completely inserted in a recessed part 23. At the time of packing the **containers**, plural refuse **containers** 1 are respectively disassembled into a container main body 2, a lid 3, and a partition, and the **pedal** 5 is raised to be accommodated in the recessed part 23. The container main bodies 2 are sequentially stacked with the lower end of the upper container main body 2 fitted in the interior of the lower container main body 2 to be collectively packed.



88. Waste sorting bin has drawer at bottom with hole to receive bottles FR2834279

2003-07-04 5 SKIS ROSSIGNOL

The bin for sorting domestic waste into different types consists of a body (1) with two inner **compartments** (7) for **containers** with liners, covered by hinged lids (4, 5). The bottom part of the body has a pull-out drawer (8) to receive elongated objects such as bottles, accessed through an aperture (111) in the front of the body and a lip (821) in the upper edge of the drawer. The drawer is fitted with a folding handle for manoeuvring it when it is removed from the bin., which is mounted on a base (2) with rollers.



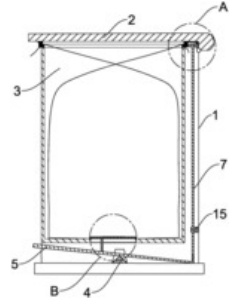
89. Anti-odor garbage barrel

CN109665239

2019-04-23

5 NINGBO JUESHENG TECHNOLOGY

The invention discloses an anti-odor garbage barrel. The anti-odor garbage barrel includes a barrel body, wherein a barrel cover is hinged to the right side of the top end of the barrel body; a barrelcavity is formed in the barrel body; compartment cavities are formed in the lower end and the right end of the barrel body; brackets are arranged at the lower ends of the compartment cavities; **pedalmembers** are hinged to the upper ends of the brackets; connecting members are hinged to the right ends of the **pedal** members; straight rods are hinged to the upper ends of the connecting members; fixingmembers are fixed to the right ends of the compartment cavities; the upper ends of the fixing members are provided with vertically arranged sliding holes; the straight rods and the sliding holes are in sliding fitting; and the top ends of the straight rods are in contact with the bottom end of the barrel cover. The anti-odor garbage barrel has the advantages that treading the **pedal** members can open both the barrel cover and the upper end of a garbage **bag**; waste batteries can be stored; releasing the **pedal** members can close both the barrel cover and seal the upper end of the garbage **bag**; and the waste batteries do not fall out when the garbage is poured.



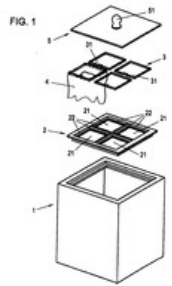
90. Device for collecting articles such as wastes, dirty laundry and the like

EP1686072

2006-08-02

5 LAHER KARL

Bin liner/sack **containers** (4) fasten on a supporting frame (2) that runs round with projecting strips/grooves (22) on edge areas enclosing recesses (21). Assigned to the **containers** and almost closed, frame-/ring-shaped flexibly reshapable retaining hoops (3) insert into the strips/grooves.



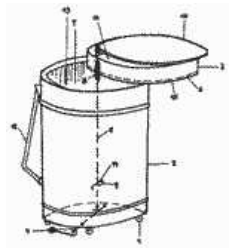
91. Protective container for waste bins for contaminated waste - has hollow lid and cover forming closable mini container fitting on filling opening and having flat seal and centring edge at the bottom.

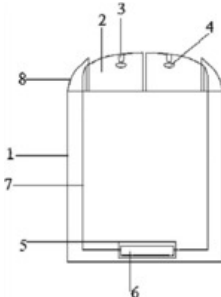
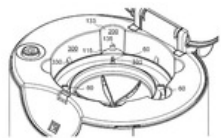
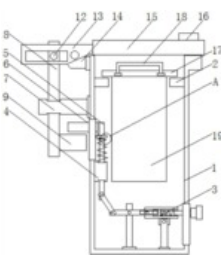
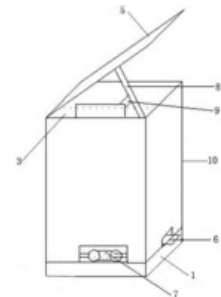
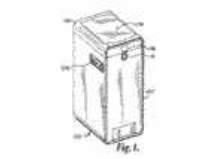
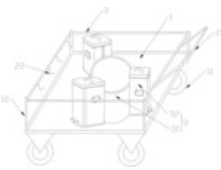
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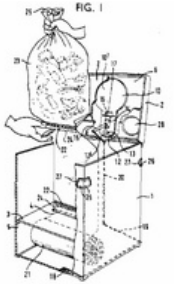
1993-12-02

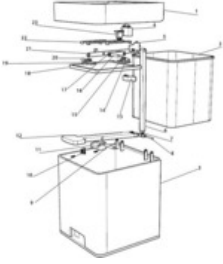
5 SEEBER HORST H DR

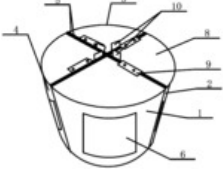
The hollow lid (3) of the protective container (2) is connected to a lift-rotary mechanism which is flat parallel, has restricted lift action, rotates sideways, automatically rotates back and lowers. This mechanism comprises a lift rotary axis (5) which lifts and turns by a guide pin (14) in a cylinder guide (9) with linear spiral control curve. The axis is connected by a return spring (8) to the **wall** of the protective container and is coupled to an operating lever (4) fixed on the container. The operating lever (4) for opening and closing the hollow lid can be a **pedal** near the ground or connected to a handle rod (12) for manual operation. USE/ADVANTAGE - There is less contamination of the atmosphere by harmful air flows and the contents of the waste bin are substantially sealed.



92.	Environmental protection garbage can	CN107857035	2018-03-30	NINGBO JIANGBEI QINGWEI ENVIRONMENTAL PROTECTION TECHNOLOGY	
The invention relates to the field of environmental protection equipment, in particular to an environmental protection garbage can which comprises a can body, a top cover device, a fixed nail, a fixedhandle, connecting holes, a pedal opening and an open-close device, wherein the top cover device comprises a left top cover and a right top cover; the open-close device comprises a pedal, a connecting pull rod and two connecting racks; the two connecting racks are arranged on two sides of the top of the can body; the left top cover and the right top cover are connected with the two connecting racks separately; the top cover device is arranged below the connecting racks; the pedal opening is formed in the bottom of the side wall of the can body; the pedal is arranged in the pedal opening; oneend of the connecting pull rod is connected with the pedal; the other end of the connecting pull rod is connected with the bottom of the top cover device; the fixed nail is arranged on the inner sideof the top cover device; the fixed handle is C-shaped; the connecting holes are formed in two ends of the fixed handle; and the fixed nail is connected with the connecting holes. The environmental protection garbage can solves the problems in the prior art that a garbage bag is likely to fall into the garbage can integrally and the garbage can is inconvenient to use.					
93.	Container for receiving multiple flexible bag assemblies	EP3230177	2017-10-18	MUNCHKIN	
Containers are described which can accommodate a variety of flexible bag assemblies used for containing waste. Internal accommodating structures are designed to accommodate and secure various types of bag assemblies, including single bag assemblies and cassettes.					
94.	Pull formula footboard for dustbin	CN207209081	2018-04-10	TIANJIN FUXINDA ENVIRONMENTAL PROTECTION EQUIPMENT TECHNOLOGY	
The utility model discloses a pull formula footboard for dustbin, which comprises an outer shell, the equal fixedly connected with fixture block in both sides of shell inner wall to the bottom fixedlyconnected with drive arrangement of shell inner wall, one side fixedly connected with slider of shell inner wall to the inside sliding connection of slider has the carriage release lever, the fixed surface of carriage release lever has the movable block, the outside that the shell just extended to the shell is run through to one side of movable block, one side fixedly connected with fixed block of shell to the inside sliding connection of fixed block has the actuating lever, the utility model relates to a waste treatment technology field. This pull formula footboard for dustbin has changed owing to outside plastic pedal bins's running -board generally all sticks out rubbish, lead to making the problem of colliding with to people, has eliminated certain potential safety hazard, has preventedto cause the damage to the running -board, has improved the life of dustbin, has reduced maintainer's work load and maintenance cost.					
95.	But convenient bag waterlogging caused by excessive rainfall for kitchen use garbage bin that trades	CN208278747	2018-12-25	JIANGSU TIANYING ENVIRONMENTAL PROTECTION ENERGY COMPLETE EQUIPMENT	
The utility model discloses a but convenient bag waterlogging caused by excessive rainfall for kitchen use garbage bin that trades, including garbage bin body and rubbish bung, the rubbish bung is controlled by bung opening mechanism, and bung opening mechanism's footboard sets up in the bottom of garbage bin body, and this garbage bin is still including retaining bottom plate, waterlogging causedby excessive rainfall baffle, support arm and clip, garbage bin body bottom sets up the waterlogging caused by excessive rainfall baffle, the retaining bottom plate sets up can dismantle with the garbage bin body in the below of garbage bin body to be connected, the lower part of garbage bin body is provided with the disposal bag storage tank, and garbage bin body one side lateral wall still is provided with the inner compartment with disposal bag storage tank intercommunication, inner compartment open -top, the top of support arm is connected with the lower surface of rubbish bung is articulated, and the bottom of support arm extends to in the inner compartment to with inner compartment rotatable coupling, the top of support arm is provided with the clip that is used for clipping the disposal bag sack. The utility model discloses a disposal bag is convenient for change by the garbage bin, easily washs, just is fit for the rubbish from cooking and deposits, and a bag waterlogging caused by excessive rainfall reduces trash.					
96.	Trash and recyclables receptacle	WO2009/114495	2009-09-17	VERDE HOME PRODUCTS	
A trash receptacle is disclosed having a housing defining a cavity and having a lid openable to create an orifice to access the cavity, with a bin disposed in the cavity and removable there-from through the orifice. The bin has a bottom surface and an upstanding peripheral wall, the wall having two pivotably engaged portions that are relatively separable to ease the removal of a filled liner bag. The peripheral wall terminates at its top in an annular rim, and the bin is adapted to receive the liner bag lining the interior of the peripheral wall and draped outwardly over the annular rim. The lid has downwardly extending annular wall adapted to engage the bin's annular rim to secure the draped-over portion of the liner bag to the annular rim when the lid is in its closed state. The receptacle has a seven-day timer and an indicator associated therewith for alerting when it is the day for disposing of trash.					
97.	Medical treatment waste classification collection device	CN205771257	2016-12-07	FIRST AFFILIATED HOSPITAL OF CHONGQING MEDICAL UNIVERSITY	
The utility model discloses a medical treatment waste classification collection device, including platform, universal wheel, montant, support and handle, the below of platform is equipped with a plurality of universal wheels, the top of platform is vertical to be provided with a plurality of montants, is provided with the support between per two adjacent montants, and the rigid coupling has the handle on one of them support, the platform up end has set firmly the refuse collection ware, the refuse collection ware includes garbage bin mount pad and a plurality of garbage bin, the garbage bin mount pad is cylindrically, lateral wall at cylindrical garbage bin mount pad is equipped with many spouts, the lateral wall of garbage bin is equipped with the slide rail, through mutually supporting of spout and slide rail, can dismantle the garbage bin with the garbage bin mount pad and be connected, can dismantle and be connected with a plurality of garbage bins through set up the garbage bin mount pad on the platform, can carry out classification place with the medical waste that the operating room produced, it is categorised especially will to do wet garbage, can make things convenient for the categorised collection of medical waste to handle, the injury of reduction to retrieving the refuse treatment personnel.					

98.	Garbage containers	GB1478824	1977-07-06	HSING CHING LIU SHWU HUEY HAWANG	1478824 Refuse containers HSING-CHIN LIU AND SHWU-HUEY HAWANG 2 Jan 1976 00073/76 Heading A4A A refuse container comprises a body 1 to which is pivotably secured a lid 2 formed of two spaced apart plates 6, 7, the plates having aligned apertures (8, 9) through which the refuse may be passed, there being a gate 10, 10' between the plates for closing the aligned apertures. The container includes a horizontal partition 3 with a central slot 4 so that rolls of refuse bag liners may be stored beneath the partition and drawn for use upwards through the slot. As shown, the gate in the lid 2 comprises two semicircular plates 10, 10' able to be moved apart about a pivot 13 so as to open the aligned apertures by the rotation of a cam 14 which is actuated by a foot pedal 18 and linkage 19, 20. A spring 16 returns the gates to the closed position. The container may be rectangular, as shown, or cylindrical in crossection and it may include an ash tray 29 and magnetic or spring-biased clamps 26 for the turned-over top of the liner bag .	
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99.	Pedal link compressed trash can	CN110040393	2019-07-23	SHANGHAI UNIVERSITY	The present invention discloses a pedal link compressed trash can, by the lid, the tub and the inner tub is formed of a compression mechanism and the opener mechanism provided between the accommodating device. Main pressure bar, the auxiliary compression bar, and a straight pole to form a compression mechanism to the pedal board, the stepping motion of the platen moves down compressing garbage. With the pedal and the straight pole to form a cover opening and closing mechanism for the folder links, the stepping motion of the lid is rotated open. The slider to laterally translate the compression bar and the flip-link switch at the same time, only one of the two parts are connected with the linear motion link creation. Is shared by two functional mechanisms with the straight arm of the pedal , effectively utilizing existing components of a trash can, and will fully compressed waste trash bag volume by, ultimately facilitate port processing.	
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100.	Novel household sortable garbage bin	CN204737253	2015-11-04	SHANGHAI SONGJIANG YOUTH & CHILDREN CENTRE	Novel household sortable garbage bin, it relates to a garbage bin, first garbage bin (1), second garbage bin (2), third garbage bin (3) and fourth garbage bin (4) are fan - shapedly, and its lateral wall all is provided with magnet (5), first garbage bin (1), second garbage bin (2), (4) two liang third garbage bin (3) and fourth garbage bins are fixed through magnetic force, first garbage bin (1), second garbage bin (2), third garbage bin (3), the upper portion of fourth garbage bin (4) all is provided with upper cover (8) through connecting piece (9), the one side of connecting piece (9) is provided with baffle (10), first garbage bin (1), second garbage bin (2), the inboard of third garbage bin (3) and fourth garbage bin (4) all is provided with reserve disposal bag box (7), first garbage bin (1), second garbage bin (2), the outside of third garbage bin (3) and fourth garbage bin (4) all is provided with labeling layer (6). It is the setting of classifying of domestic garbage bin, moreover can the independent assortment, and the practicality is strong.	
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