

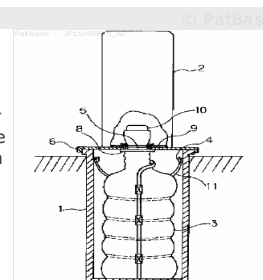
1) Family number: 12529280 (JP11056675A)

TEMPORARY TOILET AND HUMAN WASTE CONTAINER FOR TEMPORARY TOILET

Abstract: Source: JP11056675A PROBLEM TO BE SOLVED: To enable the easy and repetitive use of a human waste container and facilitate the disposal of human wastes by covering a top part of a storage tank by a support floor member like a lid plate which has a drop port and attaching the flexible baglike human waste container in which human wastes are collected to a lower part of the drop port of the support floor member detachably. SOLUTION: A toilet booth 2 is stored in a storage tank 1, a human waste container 3 which is folded down is put on the toilet booth 2, a top part of the storage tank 1 is covered with a support floor member 6 like a lid plate which has a drop port 5 in a central part thereof, and an upper part of the support floor member 6 is covered with a lid body. When a temporary toilet is used, the lid body and the support floor member 6 are removed, the human waste container 3 and the toilet booth 2 are pulled up from within the storage tank 1, and the human waste container 3 is attached to a lower part of the drop port 5 of the support floor member 6 through a mounting member 8. The top part of the storage tank 1 is covered with the support floor member 6 while the human waste container 3 is stored in the storage tank 1, and the toilet booth 2 is put and fixed on the support floor member 6.

Probable Assignee: CHICHIBU ONODA CEMENT CORP

Earliest Publication Date: 19990302



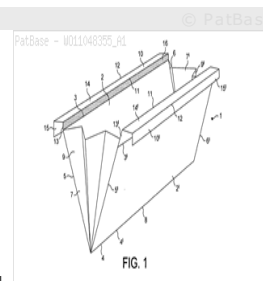
2) Family number: 44168069 (WO11048355A1)

COLLECTING BIOLOGICAL HUMAN WASTE PRODUCTS IN A TOILET OR COMMODE

Abstract: A waste disposal bag (1) adapted to receive biological human waste products in a toilet or commode has a first wall (2) having a first edge (3), an opposed second edge (4) remote from the first edge and side edges (5,6) connecting the first (3) and second (4) edges, and a second wall (2') also having a first edge (3'), an opposed second edge (4') remote from its first edge and side edges connecting its first and second edges. The respective second edges (4,4') of the first and second walls are coupled together by bottom structure to form a closed bottom for the bag. Each first edge is joined to a respective edge member (10) adapted for cooperation with a suspension member (23) of a mounting cradle (21) for the bag for suspension of the bag in the cradle. The edge members are more rigid than the material of the first and second walls, whereby the first edges remain substantially straight in use of the bag. Respective side edges of the first and second walls are coupled by a web (7,7') that allows the edge members to be moved in parallel towards and away from each other to provide a mouth for the bag. The material of the first and second walls and of the webs resists water penetration. One of the respective edge members and the respective first edges is provided with sealing means (16) adapted to form a seal at the mouth when the respective edge members are pressed together, whereby substantially to seal within the bag biological human waste products deposited in the bag when the mouth was open.

Probable Assignee: THOMAS ENDA

Earliest Publication Date: 20110427



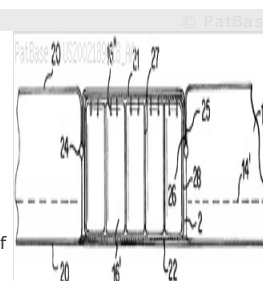
3) Family number: 30996671 (US2002189018A)

MATTRESS CAVITY CUSHION SYSTEM

Abstract: Source: US2002189018A A support structure, such as a mattress, is provided for the placement and removal of a human waste container, such as a bedpan, with minimal exertion by the attendant and minimal movement of the person. The mattress is provided with a cavity equipped with a controllable expandable cushion. Prior to use, the bedpan is placed in the cavity on top of the contracted cushion and the cushion is expanded to raise the bedpan directly under the person. A mattress protector extends into the cavity to protect the cavity from leaks or spills which may result during the person's use of the bedpan. When fully expanded, the cushion completely fills the cavity so that it is substantially flush with the rest of the mattress. A bedsheets covers the mattress and is provided with a fly or flap for access to the cavity. A disposable wastebag system can be arranged onto the cavity for use in place of a bedpan. For added hygiene of the person using the bedpan or wastebag, the mattress can be arranged with a bidet system that releases a fluidic cleaning agent from a storage container into tubing embedded in the mattress, the fluid being finally expelled onto the part of the person's lower body exposed within the cavity.

Probable Assignee: HAYES INVESTMENT CO LP

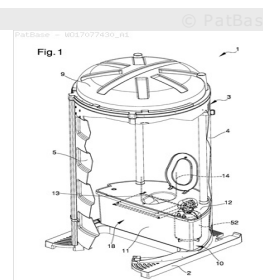
Earliest Publication Date: 20021219



4) Family number: 65616396 (WO17077430A1)

PORTABLE TOILET

Abstract: The portable toilet (1) comprises: a support base (2) for the support on the ground; - a cabin element (3) arranged on the support base (2); a base frame (10) having an upper opening (13) for the passage of organic human waste (R); a cleaning system (18) associated with the base frame (10); actuating means (19) associated with the cleaning system (18), able to actuate the cleaning system (18) and to be activated by a user after each use of the portable toilet (1); a collecting element (20) able to receive and support the organic human waste (R); the collecting element (20) comprises a flexible belt (20) which has at least a first side (21) secured to the base frame (10) in a fixed position and which is at least partially wound around a roller element (22); the cleaning system (18) comprises a movement assembly (23, 24, 25) of the roller element (22) between a first configuration in which the flexible belt (20) is arranged below the upper opening (13) for the collection of the organic human waste (R) on the collecting element (20) and a second discharge configuration of the organic human waste (R) from the flexible belt (20).



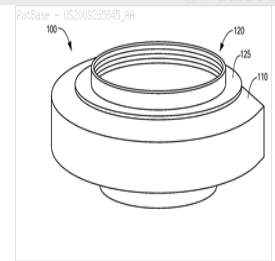
Probable Assignee: FINDECO S P A
Earliest Publication Date: 20170502

5) Family number: 43925089 (US2009265845A)

SYSTEM AND METHOD FOR DISPOSAL OF MUTAGEN WASTE

Abstract: Source: US2009265845A An assembly and method for processing human waste includes providing a supporting base having an opening within which a waste reservoir is affixed. The assembly may be installed on or below a rim of a toilet bowl. Solidification and pathogen killing materials are provided. The materials are deposited in the reservoir either prior to or upon accumulation of waste in the reservoir. The reservoir with the solidified waste is then sealed and transported to a collection facility.

Probable Assignee: PHARMA CYCLE LLC
Earliest Publication Date: 20091029

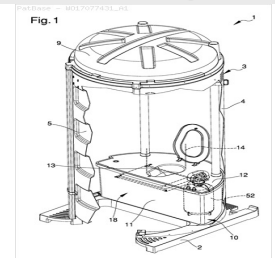


6) Family number: 65616395 (WO17077431A1)

PORTABLE TOILET

Abstract: The portable toilet (1) comprises: a support base (2) for the support on the ground; - a cabin element (3) arranged on the support base (2) and having at least one access door (5); a base frame (10) having at least one upper opening (13) for the passage of organic human waste (R) placed on the support base (2) and inside the cabin element (3); a cleaning system (18) associated with the base frame (10) and suitable for the cleaning of the portable toilet (1); actuating means (19) able to actuate the cleaning system (18) and to be activated by a user after each use of the portable toilet (1), wherein the actuating means (19) comprise a connecting medium (33) associated with the cleaning system (18) and with the access door (5) and able to actuate the cleaning system (18) when the access door (5) is opened.

Probable Assignee: FINDECO S P A
Earliest Publication Date: 20170502

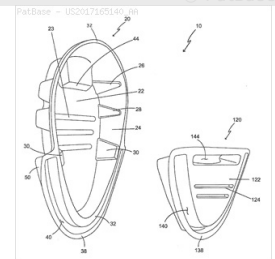


7) Family number: 66073747 (US2017165140A)

DISPOSABLE BEDPAN

Abstract: Source: US2017165140A A disposable bedpan having a bedpan with a base and a sidewall. The sidewall has at least one lateral support. A cover has a cover base. The cover mounts upon the bedpan when assembled to support a user thereon. The bedpan collects human waste. The bedpan and the cover are for a single use, thus disposable. A plurality of the bedpan is stackable upon one another, and a plurality of the cover is stackable upon one another to be volumetrically efficient for carrying, transporting, and/or storage.

Probable Assignee: SIRCARE LLC
Earliest Publication Date: 20170615

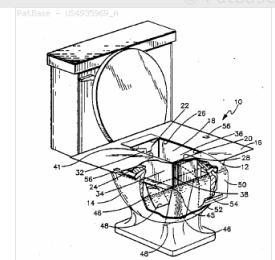


8) Family number: 3489664 (US4935969A)

METHOD AND DEVICE FOR THE CONTROLLED DISPOSAL OF HUMAN WASTE

Abstract: Source: US4935969A A method and device for the sanitary disposal of human waste are disclosed. The method includes completely covering the seat and toilet bowl interior of a toilet with a toilet flushable, human waste disposal means to contain viruses and bacteria in the toilet bowl and prevent a toilet occupant from contacting the toilet seat and bowl interior. The method further includes discharging waste into the disposal means, covering the disposal means and flushing both the disposal means and waste matter with minimum bathroom contamination. The disposal means includes a toilet seat cover means having a central cutout portion and a waste collecting means which depends therefrom. Thus, an impermeate barrier isolates the toilet bowl interior when the device is installed on a toilet prevents a toilet occupant from contacting the toilet seat and bowl interior. The collecting means contacts water in the toilet to support the waste and has depending tails at each end to pull the device into the water when the toilet is flushed. Side flanges help support the collecting means on the water and twist the device into a rope-like spiral when the toilet is flushed. A lid has a first open position extending over the front of the toilet bowl to protect the toilet occupant when using the toilet and a second closed position sealing the waste material in the collecting means when the toilet is flushed.

Probable Assignee: FARNSWORTH ORIN J
Earliest Publication Date: 19900626



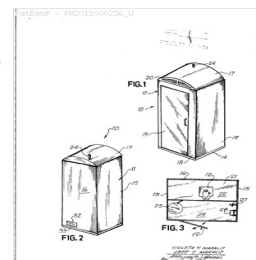
9) Family number: 51822842 (PH2011000236U)

PORTABLE TOILET

Abstract: Source: PH2011000236U This utility model particularly relates to a portable toilet that employs a water sealed or sealable toilet bowl, thereby allowing users to flush out unsightly human waste and preventing offensive smell or odor from being emitted from the human waste containing means. Furthermore, the portable toilet uses a vent tube to release offensive smell or odor from human waste containing means to the overhead area of the portable toilet, thereby preventing users from inhaling or smelling it. The portable toilet generally comprises a containing means, preferably rectangular in form, a combination of a water sealed toilet bowl resting on a human waste containing means and a support base supporting the confining means. The portable toilet is also provided with a male urinal and water supply means, including a toilet paper holder to hold a roll of toilet paper, thereby maintaining cleanliness or sanitary condition.

Probable Assignee: JEFF T MARALIT

Earliest Publication Date: 20120903



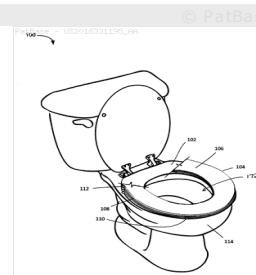
10) Family number: 63986234 (US2016331195A)

TOILET SEAT WITH PEEL-OFF LAYERS

Abstract: Source: US2016331195A A toilet includes a toilet unit and a toilet seat system. The toilet includes a lower bowl, the lower bowl having an upper support surface defining an upper opening sized to receive human waste from a user seated over the upper opening. The toilet seat system includes a base and a cartridge. The base overlies the upper support surface and is fastened to the toilet unit. The cartridge is removably connected to the base. The cartridge includes a plurality of peel-off seating layers, each peel-off seating layer being independently separable from the other peel-off seating layers for disposal, each peel-off seating layer including an outwardly extending removal tab, and each peel-off seating layer including an upper seating surface sized to support a user seated over the upper opening.

Probable Assignee: NAVOLSKYY NAZAR

Earliest Publication Date: 20161114



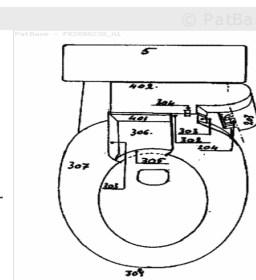
11) Family number: 12520930 (FR2686239A)

VENTILATION FOR REMOVING UNPLEASANT ODOURS FROM WC PAN [BOWL]

Abstract: The devices 1 and 2 remove the odours of human waste by drawing them into the pan. 1. The device 1 is made up of two parts: a) the seat (301), the rear portion of which forms an inverted U in cross-section, forms a duct defined by the walls (303), the top (307) and the top of the pan unit (306); b) the central suction unit (402) is mounted on the pan unit, in front of the water tank [cistern], to which the seat (301) is connected. It terminates at the side in the form of a cylindrical part (203) connected to a discharge pipe. 2. This device is moulded in the manufacture of the pan unit. A duct is moulded on each side of the water passage. The ducts open out in the pan in a single part above the water inlet. At the back, the ducts are joined by a manifold which ends in a cylinder that can contain an extractor support. The support and the cylindrical part may be fitted with an electric extractor or connected to an existing extraction system in the room.

Probable Assignee: PERRO ELIE

Earliest Publication Date: 19930723



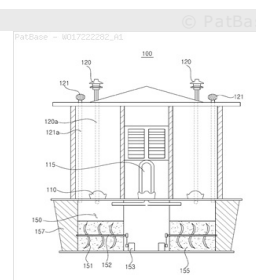
12) Family number: 62831953 (WO1722282A1)

FERMENTATION-DISSIPATING SQUAT TOILET

Abstract: The present invention relates to a fermentation-dissipating squat toilet and, particularly, to a fermentation-dissipating squat toilet that may: be semi-permanently used; perform fermentation-dissipation of human waste, even when a separate microbial fermentation agent, an odor removing agent, or the like is not periodically supplied, by using cedar wood chips having inherent deodorizing effects and a wide specific surface area; have improved aesthetics and hygiene because an automatic opening/closing means is provided to open the squat toilet only when a user steps on a foot support and loads their body weight thereon, so that the waste of others is not seen when the user opens a toilet door and the user's own waste is also not seen by virtue of being mixed with the wood chips by a stirring blade; and create a more comfortable environment by operating the stirring blade and a power operated gas exhaust evacuator when a user enters the toilet, so as to mix the wood chips and human waste and forcedly exhaust gases in a stirring tank.

Probable Assignee: 21C ENVIRONMENT CO

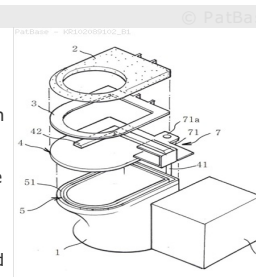
Earliest Publication Date: 20160708



13) Family number: 77934016 (KR102089102B)

CHAMPER POT OPENING AND CLOSING DEVICE OF MOVABLE TYPE BATHROOM

Abstract: Source: KR102089102B The present invention relates to a device for opening and closing a toilet bowl of a mobile bathroom which prevents human waste from being visually seen and blocks foul odors created by human waste in the toilet bowl from being released to the outside of the toilet bowl by completely and airtightly sealing an upper portion of a toilet bowl when a bathroom is not used, and forcibly sucks foul odors in the toilet bowl by a blowing fan automatically operating when opening the upper portion of the toilet bowl to discharge the foul odors to the outside of the bathroom when opening the upper portion of the toilet bowl to use the toilet bowl. The device for opening and closing a toilet bowl of a mobile bathroom comprises: a seat arranged on an upper side of a toilet bowl body to be vertically opened and closed, and a seat support of a hard material arranged on a lower side of the seat together; a toilet bowl opening/closing plate arranged between the seat support and the toilet bowl body to be vertically and horizontally rotated around a vertical fixed shaft installed on one side of the rear of the toilet bowl body, and provided with a handle integrally formed on the upper surface thereof; an airtight means to seal a gap between the toilet bowl body and the toilet bowl opening/closing plate before rotation; a blower arranged on one side of the toilet bowl body to continuously communicate with the toilet bowl body; and a switch operating means to operate the blower when the toilet bowl opening/closing plate is rotated in one side direction, and stop the operation of the blower when the toilet bowl opening/closing plate is returned back to its original position.



Probable Assignee: A SPRING ROLLS

Earliest Publication Date: 20200313

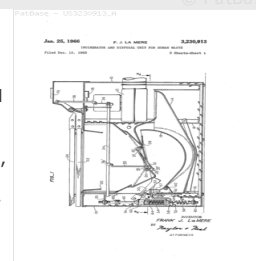
14) Family number: 23014357 (US3230913A)

INCINERATOR AND DISPOSAL UNIT FOR HUMAN WASTE

Abstract: Source: US3230913A (Claim 1) 1. In apparatus for the incineration of human waste having a housing with a firebox therein for the receipt of material for incineration and a heating means in said housing for heating material in said firebox, the improved means for operating said heating means which comprises support means mounted in said firebox in said housing for movement with respect to said housing from an empty position responsive to the weight of material deposited therein, control means connected to said heating means for operating said heating means when said firebox moves out of said empty position, and first and second springs 2.5 interconnecting said housing and firebox to jointly resiliently urge said firebox toward said empty position with one of said springs under compression and the other of said springs under tension.

Probable Assignee: HARRY M TONKIN

Earliest Publication Date: 19660125



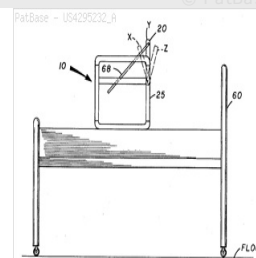
15) Family number: 1557129 (US4295232A)

DEVICE FOR HUMAN BODY WASTE ELIMINATION DURING INCAPACITATION

Abstract: Source: US4295232A The invention is a device to assist people who are incapacitated by age, injury, illness, or other causes, to eliminate body waste. The device may be used while in bed or while seated. The device consists of two segments. A first segment (in conjunction with the second segment) is used when the user is confined to a bed. A second segment is combined with the first segment for use when the user is able to sit up, as in a chair. The first segment consists of a pair of side supports which are fastened to the second segment and may be set at various angles in relation to the horizontal. A transverse member is affixed to the side supports, the transverse member having suitable leg rests therein to support the user's legs at various angles in a plurality of positions to assist in the human waste elimination. The second segment consists of framework having adjustable levels for a combination of a bed pan and a toilet seat in a plurality of positions for use in the special technique for human body waste elimination for which the invention was developed. The first segment is affixed to the second segment to form a backrest for the user.

Probable Assignee: MARSHALL JEWELL

Earliest Publication Date: 19811020



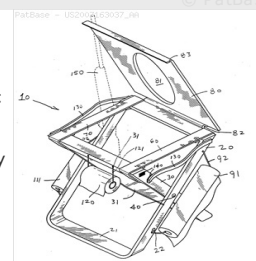
16) Family number: 34888821 (US2007163037A)

PORTABLE INDIVIDUAL COLLAPSIBLE LATRINE

Abstract: Source: US2007163037A A portable, individual, collapsible latrine especially suitable for outdoor use including military personnel. The latrine comprises a pair of generally rectangular shaped members, preferably of a molded plastic material, fitting one inside the other and hingedly connected, to form a collapsible frame. A pair of straps connect the upper ends of the two frame members to limit the extent of opening, and to support weight placed on the lid (namely the weight of a user). A lid (also of a molded plastic material) is hingedly connected to one of the frame members, preferably by means of a "living hinge" molded into the material. A disposable bag fits into an opening in the lid, for capturing human waste, with material in the bag to at least partially absorb the waste. A supply of toilet tissue, bags, and absorbent material are carried on the frame by removable cords. Retainer straps are provided on both sides of the latrine, with at least one end removably mounted by a hook-and-loop fastener, for secure yet releasable holding of equipment, for example a weapon.

Probable Assignee: AYCOCK GERALD E

Earliest Publication Date: 20070719



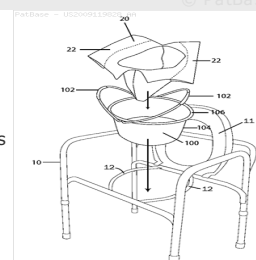
17) Family number: 43227681 (US2009119828A)

COMMODE LINER AND RECEPTACLE APPARATUS

Abstract: Source: US2009119828A A commode liner (20) and receptacle (100) design for providing a safe, easy, and affordable way to dispose of human waste from existing commodes. A user of the preferably disposable plastic liner which is constructed of a single sheet of material slips the liner cuffs over the receptacle support thereby opening and retaining the bag open without tucking the bag edges over the rim. To obscure contents and minimize odors, the user lifts the commode toilet seat to access the receptacle, and stacks one of the supports onto the other support into a closed position. Once ready to be discarded, the user can easily lift off the cuffs without coming into contact the liner's soiled areas by slipping their hand into pocket of the cuff. The user can then close the neck of the bag with a variety of devices such as twist tie, reverse one of the cuffs over the other so that the exposed potentially soiled areas are turned inward. Once the liner is removed, the receptacle and supports are unsoiled since the liner cuffs substantially cover the receptacle rim and supports as part of the installation of the liner. The liner's single sheet construction simplifies manufacture thereby lowering manufacturing costs.

Probable Assignee: MORIYAMA JOAN MEREDITH

Earliest Publication Date: 20090514



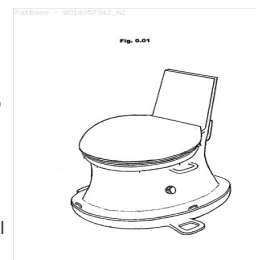
18) Family number: 55400969 (WO14057342A2)

MULTI-FUNCTIONAL PORTABLE TOILET FOR THE SANITARY PROCESS INVOLVING THE DEPOSITING, THE COLLECTION AND THE RECYCLING OF EXCREMENT AND URINE WITHOUT REQUIRING THE USE OF POTABLE WATER

Abstract: The invention relates to a mixed portable toilet that is practical, lightweight, strong, convenient and hygienic, which performs multiple functions as part of the complete treatment process for depositing, collecting and recycling organic human waste without requiring the use of potable water in under-developed regions with no water supply or sewage infrastructure. The collection process operates by means of the simple ordered handling of human waste with biodegradable and/or plastic bags that are transported using a simple collection case or container and/or collection dump trucks to the industrial and/or natural recycling site. The natural bulk recycling process uses medium or large well-structured backfill in order to make use of excrement and urine as a fertiliser for orchards, since there is nothing better or more cost effective than the natural brilliance of the roots of trees and other plant species for recycling human and animal urine and excrement and obtaining nutrients therefrom. The industrial recycling process uses processing plants to process solid and liquid organic waste, which, using the methane gas from the excrement, produce electricity and biogas for the community and, in addition, the waste from said excrement and urine is used to produce granular fertilisers for all types of agricultural crops.

Probable Assignee: BUSTAMANTE PARRA EDUARDO

Earliest Publication Date: 20121217



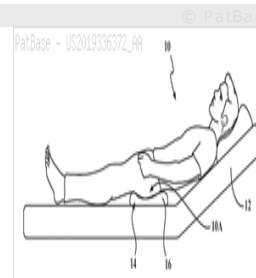
19) Family number: 68589013 (US2019336372A)

CUSHIONED WATERLESS SANITARY TOILET

Abstract: Source: US2019336372A A toilet assembly includes a cushion defining a cushion niche and configured to be positioned under and support a backside of an individual. The toilet assembly also includes a waste collection receptacle having a receptacle body defining a sump configured to hold human waste. The waste collection receptacle is characterized by an external contour configured to selectively fit into the cushion niche and facilitate removal of the receptacle from the cushion niche when the cushion is positioned under the backside of the individual. The toilet assembly additionally includes a receptacle lid configured to be selectively opened to expose the sump and closed to hermetically seal the sump when the receptacle is positioned inside the cushion niche. A method of managing toiletry needs of an individual using the toilet assembly is also disclosed.

Probable Assignee: GRADOV NATASHA

Earliest Publication Date: 20180215



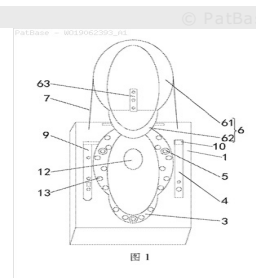
20) Family number: 68597515 (WO19062393A1)

SMART SQUAT TOILET

Abstract: A smart squat toilet comprises a base (1), a toilet body (2), a toilet seat insert (3), a water tank (4), and a first control system. The toilet body (2) is provided on the base (1). An outlet (12) of the toilet body (2) is connected to a sewer. The water tank (4) is provided on the base (1). The water tank (4) is provided on one side of the toilet body (2). Multiple first lifting devices (5) are provided between the toilet seat insert (3) and the toilet body (2). The multiple first lifting devices (5) are connected to the first control system. When a user is using the toilet, the feet of the user are placed on the base (1), and the buttocks of the user are in contact with the toilet seat insert (3). The first lifting device (5) adjusts the distance between the toilet seat insert (3) and the toilet body (2) according to different requirements of each user, such that users can fully squat down to relieve themselves and human waste is completely flushed by the toilet. The first lifting device (5) also provides support to help the elderly stand, making it easier for the elderly to stand up after using the toilet.

Probable Assignee: YUAN GUOMING

Earliest Publication Date: 20180216



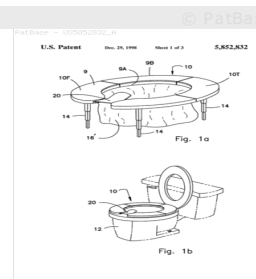
21) Family number: 11347219 (US5852832A)

PORTABLE TOILET SEAT

Abstract: Source: US5852832A A portable toilet seat comprising a horseshoe shaped base having an inner surface and outer surface, top surface and bottom surface, a front region and an open center. A plurality of telescoping legs extend downward from the bottom surface and retract into appropriately sized recesses which are also disposed about the bottom surface of the base. A lip extends around the perimeter of the inner surface for engaging a deformable waste receptacle such as a bag. The portable toilet bowl is used by retracting the telescoping legs and placing the base on top of a standard toilet bowl to prevent unsanitary bodily contact therewith. When a standard toilet bowl is unavailable, the plurality of legs may be extended to support the base above a surface such as the ground, thus allowing a user to deposit human waste through the center upon said surface, or into the deformable waste receptacle if so desired.

Probable Assignee: CONANT TRINA

Earliest Publication Date: 19981229

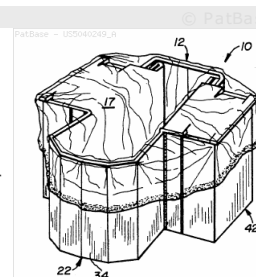


22) Family number: 4723919 (US5040249A)

PORTABLE, COLLAPSIBLE COMMODE

Abstract: Source: US5040249A A portable, collapsible toilet with a central, main section of box-like construction, which is made of corrugated cardboard, which central section is open both on the top and bottom, and accepts therein a disposable, plastic bag which receives the human waste products. The central section is flanked on either side thereof by a small, box-like supportive end-section upon which one directly sits during use of the commode. Each box-like end-section is also made of corrugated cardboard, is open on the top and bottom, and has an intermediate stiffening member to enhance its structural integrity, in order to support greater weight thereon. The central section is provided with a pair of pivotal cover-members formed integrally with the upper edge surfaces of the central section. Each cover-member is a flat sheet of cardboard, and pivotally connected to a respective upper edge surface of the central section, so that during storage of the commode, each cover-member is in its downwardly-pivoted state within the interior of the central section. In the erected state of the commode, each cover-member is pivoted up and out of the central section's interior, and pivoted until it closes off the open top of a respective box-like end-section, whereby the two cover-members thus provide a pair of spaced-apart seat-surfaces upon which one may sit during use.

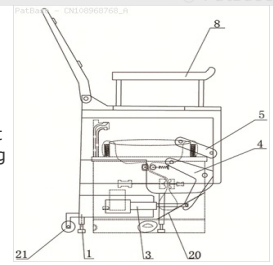
Probable Assignee: DIAZ RICHARD



23) Family number: 72329149 (CN108968768A)

LIFTABLE TOILET THING TREATMENT DEVICE

Abstract: Source: CN108968788A The invention discloses a liftable toilet thing treatment device. The device comprises an alifting bracket for assisting human body sitting and a collecting device for treating human waste which are fixedly connected; the lifting bracket comprises a supporting mechanism, a lifting mechanism and a lifting platform; the supporting mechanism includes a support rod disposed on the ground and a fixed plate fixed to the top end of the support rod respectively; the lifting mechanism includes an electric push rod as a driving mechanism and an L-shaped main swing arm as a transmission mechanism, and the bottom end of the electric push rod is fixedly connected with the fixed plate; one end of the L-shaped main swing arm is fixedly connected with a movable end of the electric push rod, the other end is hinged to the fixed plate, and a corner is fixedly connected with the lifting platform; a collecting device comprises a casing with an opening at the upper end, a storage bag storage device disposed outside the opening of the casing, a coagulant spraying device, a spray head for cleaning buttocks of a patient, a storage bag conveying device, a sealing opening cutting device and a waste box. The device is simple in operation, clean, sanitary and suitable for the field of waste treatment devices.



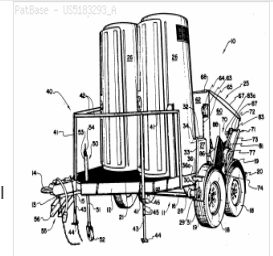
Probable Assignee: DALIAN YISIDE ENVIRONMENTAL TECH CO LTD

Earliest Publication Date: 20181211

24) Family number: 11046314 (US5183293A)

WASTE MANAGEMENT SYSTEM

Abstract: Source: US5183293A A waste management system for handling both solid and human waste consisting of a trailer with a hitch arrangement for connection to a towing vehicle. The trailer preferably includes tandem axles that support a trailer frame where to a trash collecting bin is pivotally mounted, with that bin to tilt so as to dump rearwardly. The pivoting trash bin is maintained in an upright attitude to receive trash through a top thereof, and will gravity dump, when released, and further includes a linkage that is operated to move a friction wheel into engagement with one of the trailer wheels for turning a take-up drum. The take-up drum, when turned, to reel in a cable that is passed through a take-up pulley is secured between the trash bin, and the trailer frame. By operating the linkage, trailer forward travel will provide for pivoting the trash bin back to an upright attitude. The invention also includes one or a pair of chemical toilets that are releasably maintained onto the trailer bed, forward of the pivoting trash bin. The chemical toilets are essentially conventional except that are arranged to gravity drain through a common line. A railing is provided around the trailer nose end that is open above a folding step for use by a person climbing the trailer bed.



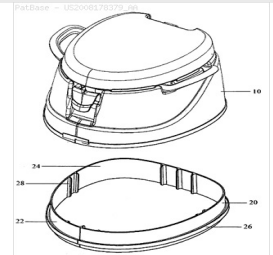
Probable Assignee: JULIAN VINCENT D

Earliest Publication Date: 19930202

25) Family number: 42066550 (US2008178379A)

HEIGHT ADJUSTABLE INFANT POTTY SEAT

Abstract: Source: US2008178379A The present invention relates to a height adjustable infant potty seat. Specifically, the present invention relates to an invertible height adjustable infant potty seat. In one embodiment, the present invention is a height adjustable infant potty seat comprising a potty seat portion shaped to receive a child thereon and receive human waste therein, an invertible shell having an outer face and protrusions thereon, the protrusions being located on the outer face at a position not equidistant from the top and bottom of the outer face, the protrusions adapted to receive and support the potty seat portion thereon at a first height, and the invertible shell being shaped such that it may be inverted to allow the potty seat to be supported by the protrusions at a second height. In one embodiment, protrusions form a flange.



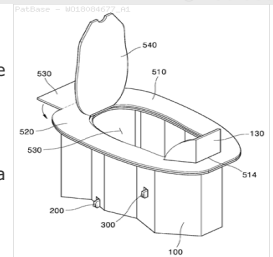
Probable Assignee: EVENFLO CO INC

Earliest Publication Date: 20080731

26) Family number: 65684288 (WO18084677A1)

CORRUGATED PORTABLE TOILET HAVING EXCREMENT SEPARATION DEVICE

Abstract: The present invention relates to a portable toilet and, more particularly, to a corrugated portable toilet capable of sufficiently supporting the weight of a user by including a body having a corrugated box shape and a toilet seat cover, and separating excrement by separating an area of an excrement bag through an area separating bar. In the present invention, the body is box-shaped and overlaps before being assembled, thereby allowing easy transfer. Further, the present invention forms the body with a corrugated side wall, and comprises a toilet seat cover of a dual structure, thereby making it possible to more reliably support the weight of the user. Also, the present invention comprises the area separating bar within the body, and the excrement bag is hung on the area separating bar, thereby making it possible to store urine and excrement in the excrement bag separately, and not store the urine and excrement to be mixed. Also, the present invention includes a coagulant in a urine storage area of the excrement bag to make it possible to urinate many times with a single excrement bag.



Probable Assignee: WISHTECH CO LTD

Earliest Publication Date: 20170515