

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 14-188052- -2	FECHA: 2015-12-17 15:04:26
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 5
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
ISMAEL HERNAN RIAÑO GUTIERREZ

Asunto: Radicación: 14-188052- -2
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 15297
Folios: 5

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional	X				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 14-188052-00000-0000	27/agosto/2014
Reivindicaciones:	Rad. N° 14-188052-00000-0000	27/agosto/2014
Dibujos:	Rad. N° 14-188052-00000-0000	27/agosto/2014

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiaran las reivindicaciones 1 y 2.

Título de la solicitud: “Sistema de inodoro de doble servicio” (Pág. 1 del radicado 14-188052-00000-0000).

El problema planteado en esta solicitud consiste en la necesidad de diseñar un dispositivo sanitario que permita separar los residuos sólidos de los líquidos, de manera que permita reducir el consumo de agua utilizado por cada descarga durante su uso ya sea para

descarga de solidos o liquidos.

Para resolver este problema técnico, la solicitud en estudio proporciona un sistema de inodoro de doble servicio, el cual separa los líquidos de los residuos sólidos, que cuenta con una cisterna, una taza principal, un compartimiento para líquidos un compartimiento para sólidos, un sifón de descarga de líquidos, un sifón de descarga de solidos un tanque de almacenamiento de agua para sólidos, una línea de entrada de agua para líquidos, una manguera plástica, una válvula reguladora de caudal y presión automática, una válvula de control, una palanca para descarga de agua al compartimiento de sólidos, una manguera plástica del sistema de descarga de agua al compartimiento para sólidos, la entrada de agua y los orificios de riego para lavado.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): E 03 D 1/14

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

- La reivindicación 1 simplemente reclama una lista de partes sin que se especifique una relación entre ellos. Se sugiere redactar de nuevo dicha reivindicación estableciendo las relaciones técnicas que se presentan entre los componentes, sin incurrir en el error de ampliar materia o mencionar ventajas técnicas, funcionalidades o resultados a alcanzar.
- En la reivindicación 2 hay un resultado a alcanzar donde menciona: “...la cual se dobla en forma cuadrada para formar un sifón doble sello (26) con un sello de olores (27)”, puesto que la reivindicación incluiría no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a ese resultado. Se sugiere reemplazarlo por las características esenciales, estructurales o funcionales, que contribuyen a la obtención de ese efecto.

Descripción (Art 28 D 486)

En la figura 5 no es fácilmente identificable cada una de las partes de la invención presentes en ella. Se sugiere allegar una figura en explosivo, en la cual se muestre todas y cada una de las características de la invención.

4. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: agosto 27 de 2014, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación*
D1	DE 1609239	“Klosettbecken”	19/marzo/1970

El documento D1¹ divulga inodoros, caracterizados por un plato principal y una capa adyacente a estas, medios de suministro de agua para los inodoros agua, agente de lavado para el lavado del plato principal donde el suministro de agua es controlado por una válvula e incluye medios conectados para controlar el flujo de agua (...), (reivindicación 1).

¹ <http://worldwide.espacenet.com/publicationDetails/description?>

CC=DE&NR=1609239A1&KC=A1&FT=D&ND=&date=19700319&DB=&locale=en_EP

5. Examen de Patentabilidad (Art 14 D486)

Novedad (Art 16 D486)

La reivindicación 1 consiste en un: “Sistema de inodoro de doble servicio **CARACTERIZADO PORQUE** consiste en: una cisterna (1), una taza principal (2) un compartimiento para líquidos (3), un compartimiento para solidos (4), un sifón de descarga de líquidos (5), un sifón de descarga de solidos (6), un tanque de almacenamiento agua para solidos (7), un sistema de riego (8), una línea de entrada de agua para líquidos (9), una manguera plástica (10) una válvula reguladora de caudal y presión automática (11), una válvula de control (12), una palanca para descarga de agua (13) al compartimiento para solidos (4), manguera plástica (14) del sistema de descarga de agua al compartimiento para solidos (4), la entrada de agua (17) y los orificios de riego para lavado (29)” (Ver página 13 del radicado N° 14-188052-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D1
Sistema de inodoro de doble servicio	Inodoros (resumen).
Una cisterna (1).	Cisterna (4) (Fig. 3).
Una taza principal (2).	La taza del inodoro (B) (fig. 2).
Un compartimiento para líquidos (3).	El tazón de orina (8) (fig. 2).
Un compartimiento para solidos (4).	Recipiente principal para solidos (7) (Fig. 1).
Un sifón de descarga de líquidos (5).	Abertura (13) (fig. 2) y Sifón de descarga (14) (fig. 2).
Un sifón de descarga de solidos (6).	Un sifón convencional (10) en conexión, que sirve para mantener un nivel normal de agua (Pág. 6, líneas 8 a 10, Fig. 2).
Un tanque de almacenamiento agua para solidos (7).	Tanque (A) (fig. 2). El agua va a la cisterna (4) por medio de un tubo de alimentación (24) que es contenida en el interior del tanque del inodoro (4) (Pág. 20 a 22, Fig. 3).
Un sistema de riego (8).	Un tubo (16), conectado a un tubo canal (28) que a través de orificios (29a) conducen agua al tazón de orina (8) (Figs. 2 y 3). Tubo de salida (16) comunica con un tubo o canal (28) en conjunto que se extiende alrededor de una porción de la parte superior de la taza (B), y después enjuagar para abrir en el recipiente de orina (8) de la misma (Pág. 9, líneas 8 a 11, Fig. 1).
Una línea de entrada de agua para líquidos (9).	La línea de entra para líquidos está dada en el extremo superior del tubo (16) que se conecta con el tubo o canal (28) y está determinada por el espejo (21). (Figs. 1 y 3).
Una manguera plástica (10).	Un tubo de descarga (16) (Fig. 3).
Una válvula reguladora de caudal y presión automática (11).	Una válvula (6) (Fig. 3).
Una válvula de control (12).	Una válvula (18) (Fig. 3).
Una palanca para descarga de agua (13) al compartimiento para solidos (4).	La palanca (22) se acciona para el lavado de la cuenca principal (7) de la taza (B) (Pág. 11, líneas 21 a 23, Fig. 3).
Manguera plástica (14) del sistema de descarga de agua al compartimiento para solidos (4).	Un tubo delgado o conducto (30) es de tubo para la conexión entre el tubo de salida (3) y (16) de modo que cuando la palanca (22) se acciona para el lavado de la cuenca principal (7) de la taza (B) (Pág. 11, líneas 18 a 23, Fig. 3).
La entrada de agua (17).	El agua va a la cisterna (4) por medio de un tubo de alimentación (24) que es contenida en el interior del tanque del inodoro (4) (Pág. 20 a 22, Fig. 3).
Los orificios de riego para lavado (29).	La parte inferior de la estructura del canal (1) está provisto de una pluralidad de aberturas (1a) en la superficie de la cubeta interna para permitir que el líquido de aclarado sea guiado en el conducto (2) (...) para el lavado líquido de (B) y del enjuague del tanque 0.4 través de la salida (pág. 5, líneas 7 a 23, Fig. 2).

De acuerdo con la tabla anterior, las características esenciales de la reivindicación 1 habían

sido divulgadas previamente en el documento D1, por lo tanto, la materia reivindicada no es nueva.

En consecuencia, la reivindicación 1 carece de novedad, según lo divulgado en el documento D1.

La materia objeto de la reivindicación 2 se encuentra objetada en el numeral 3 del presente examen.

6. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Item	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	DE 1609239	1 y 2	Novedad/Nivel Inventivo

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir del día siguiente de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Se invita al solicitante se sirva indicar, si así lo considera, su renuncia al término faltante de sesenta (60) días para dar respuesta a este requerimiento y presentarla por escrito.

Finalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones, no pagará la tasa de modificación voluntaria pero sí la correspondiente al pago por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2015-12-22

Elaboró: Harold Snehyder Vega Russi
Revisó: Rosa Patricia Tellez Chavarro

harold

Search history

Search 1:	Toilets (Results 9604)
Search 2:	sanitary device (Results 957)
Search 3:	toilet bowl (Results 16836)
Search 4:	toilet AND separate parts (Results 44)
Search 5:	traps in drain (Results 1)
Search 6:	toilet separating (Results 7)
Search 7:	component of a toilet separating (Results 1)
Search 8:	DEVICE FOR SEPARATING AND DISPOSING OF FAECES AND URINE IN URINE SEPARATION TOILETS (Results 1)
Search 9:	The toilet bowl is divided into two areas (Results 0)
Search 10:	urinal drain trap (Results 3)
Search 11:	DRAIN FILTER APPARATUS AND TRAP AND HOUSING ASSEMBLY (Results 0)
Search 12:	DRAIN FILTER APPARATUS AND TRAP (Results 1)
Search 13:	Waterless urinal (Results 85)
Search 14:	Drain AND Sink strainer (Results 64)
Search 15:	Basket-trap for water-closets (Results 0)
Search 16:	Basket-trap (Results 5)
Search 17:	drain pipe with improved straining structure (Results 1)
Search 18:	Drain strainer (Results 100)
Search 19:	Urinal drain trap AND Seal (Results 2)
Search 20:	FN=(4278461 OR 8331665 OR 894003 OR 4368437 OR 12144724) (Results 5)
Search 21:	FN=(48725119 OR 51311589 OR 23268300 OR 58397129 OR 30537359 OR 15309312 OR 15640656 OR 29774539 OR 19166523) (Results 9)
Search 22:	FN=(322987 OR 25276969 OR 20749244 OR 18841751) (Results 4)
Search 23:	PN=(DE1609239 OR 48725119 OR 51311589 OR 23268300 OR 58397129 OR 30537359 OR 15309312 OR 15640656 OR 29774539 OR 19166523) (Results 2)
Search 24:	FN=(4278461 OR 14640989) (Results 2)
Search 25:	21 AND 23 (Results 0)
Search 26:	PN=(DE1609239 OR WO0242569 OR WO09520078 OR WO09219824 OR WO1999023319 OR WO0233183) (Results 5)
Search 27:	DRAIN FILTER APPARATUS AND TRAP AND HOUSING ASSEMBLY (Results 0)
Search 28:	DRAIN FILTER APPARATUS (Results 8)
Search 29:	Waterless urinal (Results 85)
Search 30:	Sink strainer (Results 217)
Search 31:	Basket-trap for water-closets (Results 0)
Search 32:	Basket-trap AND water-closets (Results 0)
Search 33:	drain AND straining structure (Results 3)
Search 34:	Drain filter apparatus (Results 8)
Search 35:	Drain strainer (Results 100)
Search 36:	Urinal drain trap AND Seal (Results 2)
Search 37:	PN=(DE1815734 OR DE19915322 OR EP1785077 OR EP1972727 OR EP2472014 OR GB2319540 OR GB2355185 OR GB2423709 OR US1880962 OR US20050229971 OR US4224701 OR US20120167296 OR US5987655 OR US6701541 OR US7618532 OR US7636957 OR US8112823 OR US8409433 OR WO2007129101 OR WO2008006234 OR WO2009040524 OR WO2009040525 OR WO9425693 OR WO9711234 OR WO9907953) (Results 25)
Search 38:	21 AND 37 (Results 0)
Search 39:	21 OR 37 (Results 34)

Search 40: 22 OR 21 (Results 13)

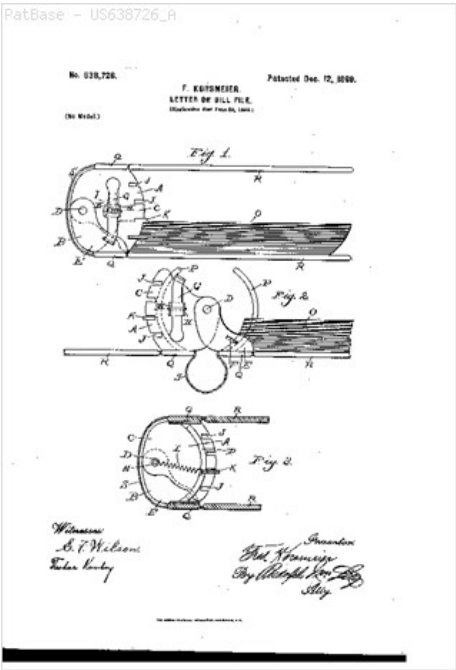
Search 41: 14 AND 40 (Results 0)

Search 42: 40 OR 39 (Results 38)

Search 43: PN=(US638726 OR US4999858 OR US2007262006 OR US5711037 OR US2002069913 OR US2010205725 OR US2009094766 OR US2012167296 OR US2012266372 OR US769001 OR US1612588 OR US2191686 OR US2337331 OR US8382993) (Results 14)

Title: LETTER OR BILL FILE.

Classifications:
International (IPC 1-7): B42F13/28
CPC: B42F13/28
US: 402/44 402/76



Family:

Publication number	Publication date	Application number	Application date
US638726 A	18991212	US18990721854	18990626

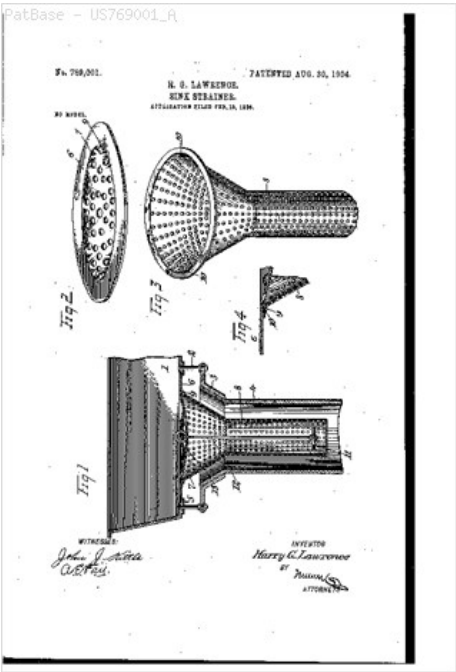
Priority:

US18990721854 18990626

Probable Assignee: CHICAGO BINDER AND FILE COMPANY
Assignee(s): (std): CHICAGO BINDER AND FILE COMPANY
Inventor(s): (std): KORSMEIER FRED
Inventor(s): FRED KORSMEIER

Title: SINK-STRAINER.

Classifications:
CPC: E03C1/264
US: 4/291



Family:

Publication number	Publication date	Application number	Application date
US769001 A	19040830	US19040194355	19040219

Priority:

US19040194355 19040219

Probable Assignee: LAWRENCE HARRY GORDEN

Assignee(s): (std): LAWRENCE HARRY GORDEN

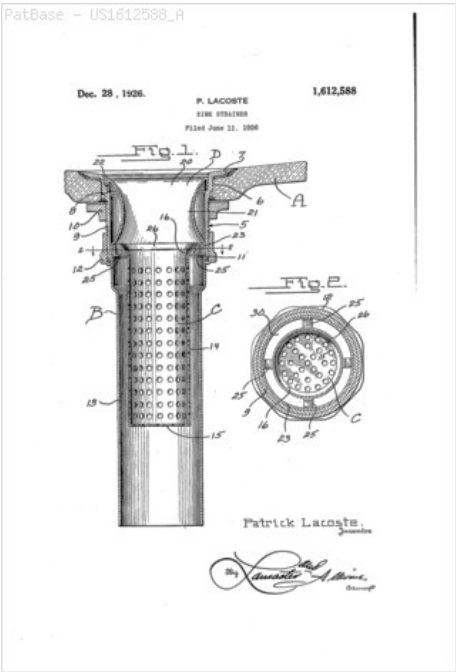
Assignee(s): HARRY GORDEN LAWRENCE

Inventor(s): (std): LAWRENCE HARRY GORDEN

Inventor(s): HARRY GORDEN LAWRENCE

Title: Sink strainer

Classifications:
International (IPC 8-9): E03C1/264 (Advanced/Invention);
E03C1/26 (Core/Invention)
International (IPC 1-7): E03C1/264
CPC: E03C1/264
European: E03C1/264
US: 210/452 4/291



Family:

Publication number	Publication date	Application number	Application date
US1612588 A	19261228	US19260115339	19260611

Priority:
US19260115339 19260611
Probable Assignee: PATRICK LACOSTE
Assignee(s): (std): PATRICK LACOSTE
Inventor(s): (std): PATRICK LACOSTE
Inventor(s): LACOSTE PATRICK

Title: Drain

Abstract: Source: US2191686A 1. A surface drain of the class described, in combination, a, member having an inlet and an outlet, a, solids retaining member disposed centrally of said first mentioned member having the sides thereof perforated to permit the lateral flow of fluid, 9. slotted cover for said first mentioned member disposed to provide an annular aperture between the top of the solids retaining member and said cover whereby fluid may pass therethrough to the outlet of said first member when said solids retaining member becomes clogged.

Classifications:

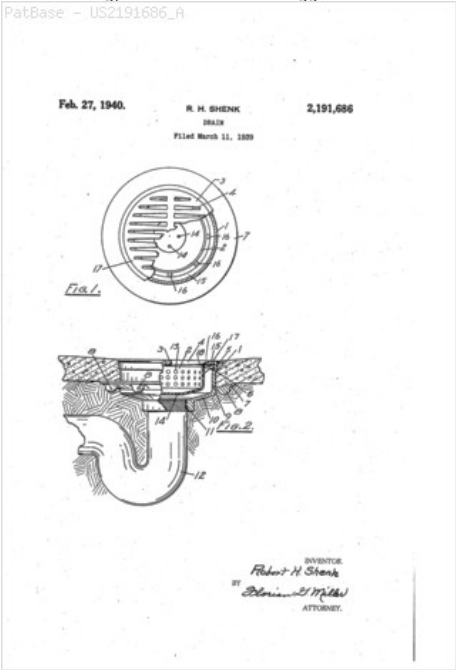
International (IPC 8-9): E03C1/26 (Advanced/Invention); E03C1/26 (Core/Invention)

International (IPC 1-7): E03C1/26 E03F5/04

CPC: E03C1/26

European: E03C1/26

US: 210/314 210/86 285/14 285/42 4/289



Family:

Publication number	Publication date	Application number	Application date
US2191686 A	19400227	US19390261391	19390311

Priority:

US19390261391 19390311

Probable Assignee: J A ZURN MFG COMPANY

Assignee(s): (std): J A ZURN MFG COMPANY

Assignee(s): J A ZURN MANUFACTURING COMPANY ; J A ZURN MFG CO

Inventor(s): (std): SHENK ROBERT H

Abstract: Source: US2337331A 1. A closure comprising a sleeve, a plug movable in said sleeve, said plug having an opening, a spring member comprising a vertically extending wire anchored on the inside of said plug adjacent the top and bottom thereof, said wire member having a bent V shaped portion extending through said opening and engaging said sleeve to provide sufficient friction between said plug and said sleeve to maintain said plug in any of its moved positions. —

Classifications:

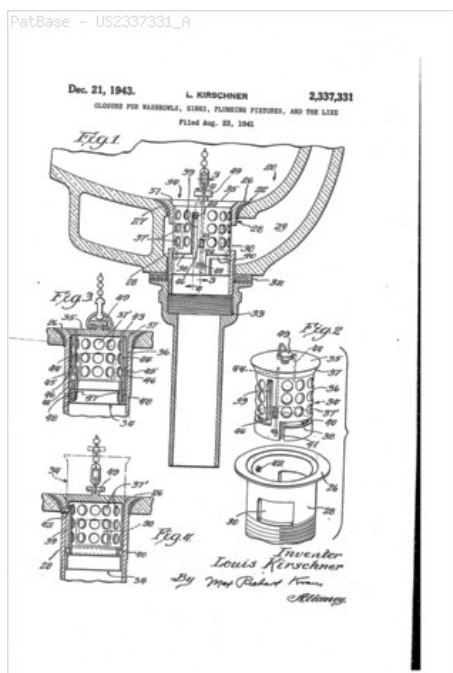
International (IPC 8-9): E03C1/262 (Advanced/Invention); E03C1/26 (Core/Invention)

International (IPC 1-7): E03C1/262

CPC: E03C1/262

European: E03C1/262

US: 4/287



Publication number	Publication date	Application number	Application date
US2337331 A	19431221	US19410408046	19410823

Priority:

US19410408046 19410823

Probable Assignee: LOUIS KIRSCHNER

Assignee(s): (std): LOUIS KIRSCHNER

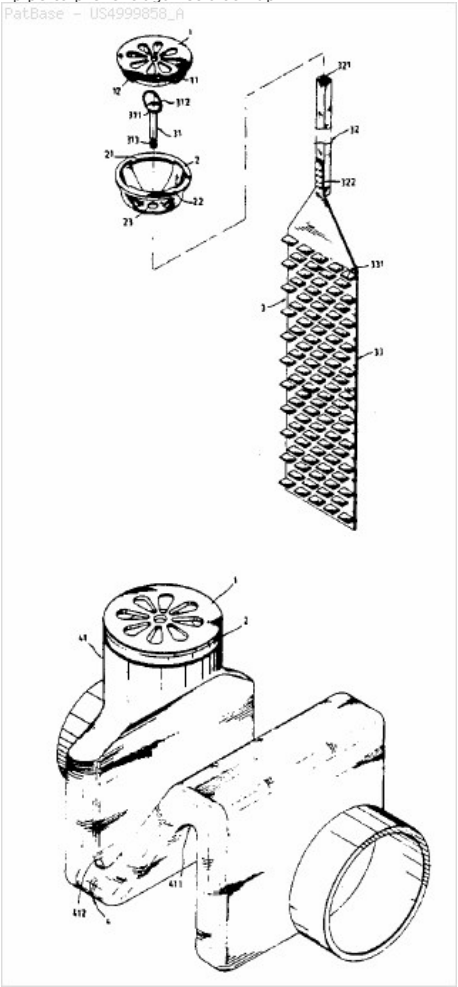
Inventor(s): (std): LOUIS KIRSCHNER

Inventor(s): KIRSCHNER LOUIS

Title: Floor drain pipe with improved straining structure

Abstract: Source: US4999858A A drain pipe assembly, which includes a S-shaped drain pipe having mounted on its orifice a cup-like filter plate and a strainer and having inserted therein a cleaning brush. The S-shaped drain pipe includes a bent pipe portion extending from a vertical end pipe portion to define therewith a first bent on its upper side and a second bent on its bottom side, wherein the second bent is arranged at a level much higher than the first bent so that impurities and mud carried by rain water can be retained in the bottom of the vertical end pipe portion and vermin can be prohibited from passing therethrough. The cleaning brush can be pulled up and pushed down repeatedly to shuck off the sediments accumulated thereon and clear the passage way of the boring bore of the drain pipe to prevent against block-up

Classifications:
International (IPC 8-9): E03C1/26 (Advanced/Invention);
E03C1/26 (Core/Invention)
International (IPC 1-7): E03C1/26
CPC: E03C1/26
European: E03C1/26
US: 15/104.33 4/286 4/288 4/290 4/292
Locarno class: 42/88



Family:

Publication number	Publication date	Application number	Application date
US4999858 A	19910319	US19900496849	19900321

Priority:
US19900496849 19900321

Probable Assignee: WU CHIH CHENG
Assignee(s): (std): WU CHIH CHENG
Inventor(s): (std): WU CHIH CHENG

Title: Waterless urinal

Abstract: Source: US5711037A A waterless urinal meeting U.S. sanitation code requirements and providing advantages of cost savings, water conservation and easy maintenance is particularly beneficial in public or institutional urinal facilities. An odor trap cartridge unit is configured as a coaxial dual chamber bell trap that eliminates the need for conventional P or J type traps required in water-flushed urinals. In the odor trap, a body of oily liquid sealant, floating on a body of trapped residual urine, serves as an odor barrier but allows entering urine to immediately permeate downwardly through the sealant and proceed to a drain without requiring flushing. The odor trap is molded from two plastic parts that are assembled together to form a cartridge unit that fits readily into a receptacle cavity of urinal bowl configured for wall mounting. The cartridge stays in place by friction and gravity, and can be easily removed with a special tool. A special low specific gravity sealant formulation, ensuring efficient operation, is made biodegradable to protect the environment against any traces escaping to the drain. Sealant replenishment, when required, is easily performed. For unusually frequent usage, maintenance may be reduced by the use of an auxiliary oil reservoir serving one or more urinals.

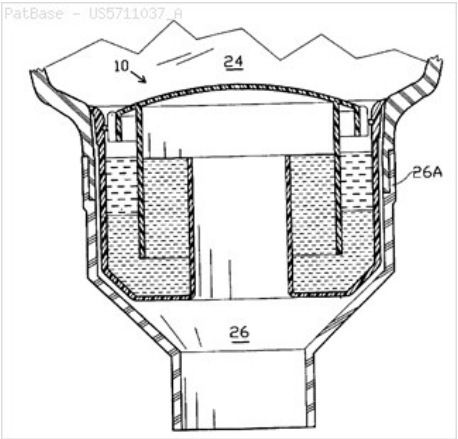
Classifications:

International (IPC 8-9): A47K11/12 E03C1/29 E03D13/00 E03D9/00 (Advanced/Invention); E03C1/28 E03D13/00 E03D9/00 (Core/Invention)

International (IPC 1-7): A47K11/12 E03C1/29 E03D13/00 E03C1/281 E03C1/29 E03D9/00 E03D13/00

European: E03C1/28B E03C1/29 E03D13/00 E03D9/00

US: 4/144.1 4/301 4/679



Family:

Publication number	Publication date	Application number	Application date
AU199467224 A1	19941121	AU19940067224	19940427
AU6722494 A1	19941121	AU19940067224D	19940427
CA2118999 AA	19941005	CA19942118999	19940314
CA2118999 C	19971216	CA19942118999	19940314
US5711037 A	19980127	US19950512453	19950808
WO9425693 A1	19941110	WO1994EP01333	19940427

Priority:

US19930052668 19930404 US19930052668 19930427 WO1994EP01333 19940427
US19950512453 19950808 CA19942118999 19940314

Probable Assignee: WATERLESS CO

Assignee(s): (std): GORGES DITMAR L ; REICHARDT KLAUS H ; WATERLESS COMPANY

Assignee(s): DITMAR L GORGES ; WATERLESS CO ; KLAUS H REICHARDT

Inventor(s): (std): GORGES DITMAR L ; REICHARDT KLAUS H

Inventor(s): DITMAR L GORGES ; KLAUS H REICHARDT

Designated states: AT AU BE BR CH CN DE DK ES FR GB GR HU IE IT JP LU MC NL PL PT SE

Title: HORIZONTAL-FLOW TRAP AND HOUSING ASSEMBLY WITH ODOR PREVENTING CLOSURE MECHANISM

Abstract: Source: US2002069913A An odor trap apparatus (20) for conveyance of waste water to an external drain includes a housing (32) having an interior and an opening (48) extending from the interior to the external drain, and a cartridge (22) receivable in the housing interior. The cartridge has an opening (26) for receiving the wastewater, and an exit opening (78) disposed to communicate with the housing opening. The cartridge and the housing have positions of final secured interconnection, when openings (26, 48) are aligned, and of initial unsecured interconnection, when their openings are not aligned. A lever (52) is swivelably secured to the housing bottom wall (46), and has a cap (54) for closing the housing exit tube (28) and a projection (56) engageable with the cartridge for effecting the closure when the housing opening (48) is not aligned with the cartridge exit opening (78). Three L-shaped keyways (60) in the housing interior are adapted to mate with three keyways (82) in the cartridge, and have corrugated surfaces to provide a ratcheted secure connection between the cartridge and the housing when in the secure orientation. The L-shaped keyways further have inclined surfaces (68) which provide a camming action to facilitate removal of the cartridge from the housing. Two implementations employed to prevent misorientation between the housing and the cartridge include (1) a different dimensioning of at least one of the keys and the keyways from another of the keys and the keyways and (2) the positioning of the keys and the keyways in other than a 120 degrees positioning from one another. A tool (92) is used to insert and to remove the cartridge from the housing. The tool has arced T-shaped projections (98) which are adapted to fit into openings (26) and which have longer and shorter appendages (102", 102'). Each longer appendage has a protuberance (104) which is adapted to engage a protuberance (77a) on the underside of the cartridge top wall (74) so as to form a secure latching engagement when the cartridge is to be removed from the housing. Shorter appendage (102') engages top wall (74) for insertion of the cartridge into the housing.

Classifications:

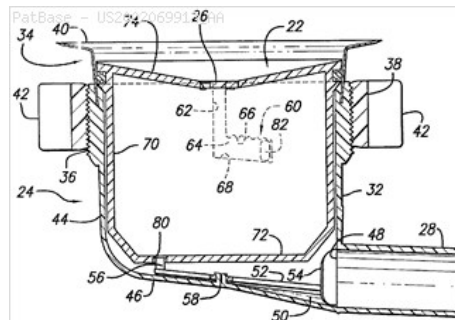
International (IPC 8-9): A47K11/00 A47K11/12 B25B33/00 E03C1/26 E03C1/28 E03C1/29 E03D13/00 E03D9/00 E03F1/00 E03F5/04 F15D1/00 F16K37/00 G01F1/60 (Advanced/Invention); E03C1/28 E03D13/00 E03D9/00 (Advanced/Non-invention); A47K11/00 E03C1/26 E03C1/28 E03D13/00 E03D9/00 E03F5/04 F15D1/00 F16K37/00 (Core/Invention)

International (IPC 1-7): A47K11/00 A47K11/12 B01D15/08 E03C1/26 E03C1/28 E03C1/29 E03D11/18 E03D13/00 E03D9/00 E03D9/02 E03F5/04 E03F5/20 F16K13/00 F16K13/10 F16L29/00 G01F1/05 G08B21/00

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European: A47K11/12 B25B33/00 E03C1/28 E03C1/28B E03C1/29 E03D13/00 E03D9/00 E03F5/04 E03F5/04D

US: 137/14 137/14P 137/247 137/247.11 137/247.110S 137/247.13 137/247.130P 137/247.29 137/247.39 137/315.41 137/362 137/558 200/61.04 251/149.8 340/309.16 340/309.160S 340/457.4 340/457.400S 340/540 340/540P 340/604 340/604S 340/620 340/620S 340/635 340/635S 4/144.1 4/144.100P 4/301 4/301P 4/309 4/679 73/861.86 73/861.860P



RU2173749 C2	20010920	RU19980109901	19961025
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TH17207 B	20040630	TH19971004293	19971024
TH36358 A	19991217	TH19971004293	19971024
US2002069913 AA	20020613	US20020055833	20020122
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US2002163432 AA	20021107	US20020143103	20020507
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US2005247342 AA	20051110	US20050032508	20050109
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Priority:

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Probable Assignee: FALCON WATERFREE TECHNOLOGIES LLC

Assignee(s): (std):	FALCON WATERFREE TECHNOLOGIE ; FALCON WATERFREE TECHNOLOGIES ; FALCON WATERFREE TECHNOLOGIES LLC ; GORGES DITMAR L ; FALCON WATERLESS TECHNOLOGIES ; FALVON WATERFREE TECHNOLOGIES ; HIGGINS MICHAEL ; DITMAR GORGES L
Assignee(s):	DITMAR L GORGES ; DITMAR L. DZHORDZHES ; OPUS BANK ; LCON WATERLESS TECHNOLOGIES SUITE FA ; FALCON WATERLESS TECHNOLOGIES CO ; FALCON WATERLESS TECHNOLOGIES INC
Inventor(s): (std):	DITMAR L GORGES ; GORGES DIRMAR L ; HAGGINS MICHAEL ; HIGGINS M ; HIGGINS MICHAEL ; M HIGGINS ; MICHAEL HIGGINS ; GORGES DITMAR L ; GEORGES DITMAR L
Inventor(s):	DITMAR L. DZHORDZHES ; DITMAR L GEORGES ; DIRMAR L GORGES
Agent(s):	LAW OFFICES OF CLARK D GROSS C O RUSS AUGUST AND KABAT; LEWIS B STERNFELS LAW OFFICES OF CLARK D GROSS; LEWIS B
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DRAIN FILTER APPARATUS AND METHOD

Abstract: Source: US8382993B A removable drain filter apparatus (20) with an housing (22) connectable with upstream and downstream drain pipes (40, 46) has a filtering chamber wider than the drain pipes and divided into an upstream portion (78) and a downstream portion (82) by a generally planer filter element (50). A hatch cover (32) carries a downwardly extending central core (76) with an O-ring seal (84), a filter securement member (86) for pressing the filter element (50) against an underlying support ledge (29) and a drain hole plug (88). The location of the O-ring (84) relative to the filter element (50) and the plug (88) being tapered enables the filter housing (22) to be drained of any water during removal of the hatch cover and before the watertight seal is broken to eliminate leakage of drain water out of the housing (22) when the hatch (31) is completely opened. The filter (50) bends out of the way of a plumber's auger (96).

Classifications:

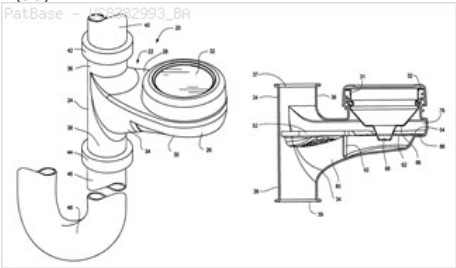
International (IPC 8-9): B01D35/02 B01D35/16 E03C1/282

E03C1/284 (Advanced/Invention)

CPC: E03C1/26 Y10T137/4463 Y10T137/8013 Y10T137/8049 Y10T137/8122

US: 137/247.11 137/546 137/547 137/550 210/153 210/232 210/236 210/299 210/310 210/312 210/447 210/767 210/791 285/134.1 4/287 4/292 4/295 4/679 4/DIG.14 4/DIG.19 4/DIG.9 D23/268

Locarno class: 23/01



Family:

Publication number	Publication date	Application number	Application date
US8382993 BA	20130226	US20070900075	20070907
USD553226 S1	20071016	US20050243978F	20051202

Priority:

US20050243978F 20051202 US20070900075 20070907

Probable Assignee: CLEAR DRAIN IND LLC

Assignee(s): (std): CLEAR DRAIN IND LLC ; DUFFY SR KENNETH T ; WISEK DENNIS E ; LIVINGSTON TROY W

Assignee(s): CLEAR DRAIN INDUSTRIES LLC

Inventor(s): (std): WISEK DENNIS E ; LIVINGSTON TROY W ; DUFFY SR KENNETH T

Agent(s): POTTHAST AND ASSOCIATES; JAMES W; ROBERT A

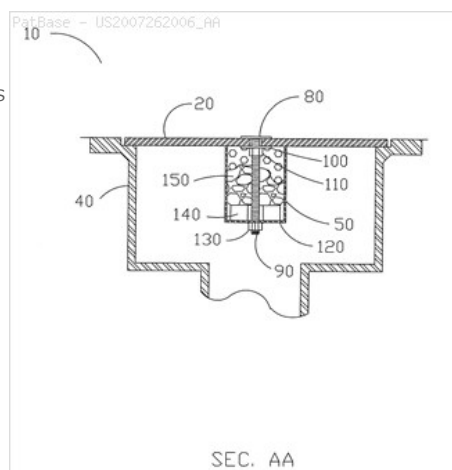
Abstract: Source: US2007262006A An aromatic drain device comprising a perforate retaining device defining a volume for retaining an aromatic media therein, the retaining device releasably secured to a removable drain cover and positioned to extend below the drain cover into the cavity defined by the floor drain wall.

International (IPC 8-9): A61L9/00 A61L9/04 E03D9/02 E03F5/06
E03F5/14 (Advanced/Invention)

CPC: E03F5/041 E03C1/126 E03F5/0407 E03F2005/0416

European: E03C1/126 E03F5/04 E03F5/04B E03F5/04D E03F5/04G E03F5/06 P03F5/04S

US: 210/164 210/916 210/916S 239/57 239/57P 239/60 4/222.1 4/292



Publication number	Publication date	Application number	Application date
US2007262006 AA	20071115	US20060382541	20060510
US2009026285 AA	20090129	US20080246411	20081006
US7618532 BB	20091117	US20080246411	20081006
US7887697 BB	20110215	US20060382541	20060510

US20060382541 20060510 US20080246411 20081006

Probable Assignee: WORTH THOMAS W

Assignee(s): (std): WORTH THOMAS W

Assignee(s): MANGROM MARK ; MANGROM MARK A ; MANGRUM MARK ; MANGRUM MARK A

Inventor(s): (std): WORTH THOMAS W

Inventor(s): WORTH THOMAS

Agent(s): THE PARKER LAW OFFICE PLLC; PARKER LAW OFFICE PLLC; DELEON

Title: IMPROVED URINAL APPARATUS

Abstract: Source: US2010205725A An apparatus for a urinal is described. The apparatus comprises a plate member adapted to form a seal with a urinal outlet, the plate member defining a throughbore permitting the passage of liquid, in use, from the urinal to a soil pipe and a diaphragm located in the plate member throughbore, the diaphragm adapted to permit the passage of liquid through the throughbore in one direction only from the urinal to the soil pipe.

Classifications:

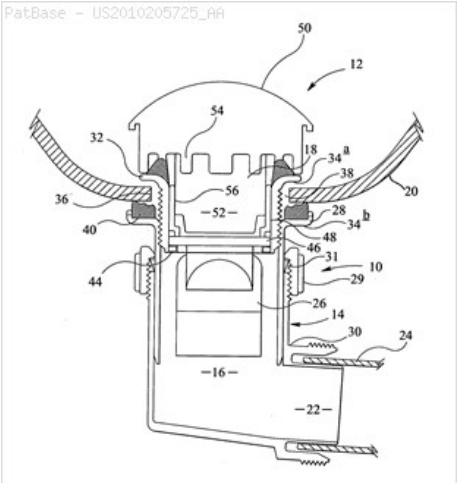
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International (IPC 1-7): E03C1/298

CPC: E03C1/281 E03D13/005 E03C1/264 E03C1/298

European: E03C1/264 E03C1/28B E03C1/298 E03D13/00D

US: 4/144.1 4/144.100P 414/41



Family:

Publication number	Publication date	Application number	Application date
AU2008303367 AA	20090402	AU20080303367	20080925
CA2700702 AA	20090402	CA20082700702	20080925
EP2201188 A1	20100630	EP20080806392	20080925
GB200718708 A0	20071107	GB20070018708	20070925
GB200725125 A0	20080130	GB20070025125	20071222
GB201006930 A0	20100609	GB20100006930	20080925
GB2467669 A1	20100811	GB20100006930	20080925
GB2467669 B2	20130227	GB20100006930	20080925
IN02391CN2010 A	20101015	IN2010CN02391	20100423
US2010205725 AA	20100819	US20080679783	20080925
WO09040524 A1	20090402	WO2008GB03238	20080925

Priority:
GB20070018708 20070925 GB20070025125 20071222 WO2008GB03238 20080925

Probable Assignee: MCALPINE AND CO LTD

Assignee(s): (std): MCALPINE AND CO LTD ; MCALPINE JAMES EDWARD

Assignee(s): MCALPINE AND COMPANY LIMITED ; MCALPINE AND COMPANY LTD

Inventor(s): (std): MCALPINE JAMES EDWARD

Inventor(s): JAMES EDWARD MCALPINE

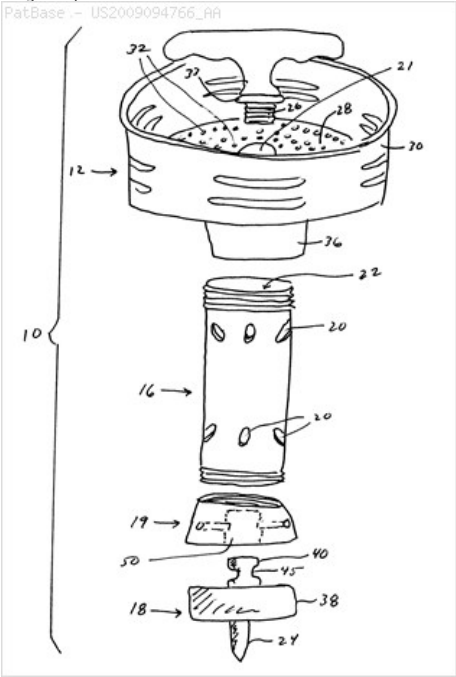
Agent(s): WILLIAMS BRYN DAVID; DYKAS SHAVER AND NIPPER LLP; NAISMITH ROBERT ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN VZ ZM ZW

Title: COMBINATION GARBAGE DISPOSAL SCRAPER, SAFETY POKER AND DEODORIZER

Abstract: Source: US2009094766A A combination garbage disposal safety poker, scraper and deodorizer/sanitizer device is provided. The device comprises a cup-shaped strainer, a handle **14** mounted to the strainer, a hollow cylindrical stem extending downward from the strainer, and a replaceable rubber scraper connected to lower end of the hollow stem and used for scraping waste from dishes and sinks. The inside of the stem serves as a compartment for holding a deodorizer/sanitizer tablet. Holes in the strainer and in the stem expose the deodorizer/sanitizer tablet to water, thereby gradually dissolving the tablet and continually deodorizing the garbage disposal unit and drain.

Classifications:
International (IPC 8-9): A47K1/14 E03D9/02 (Advanced/Invention)
CPC: E03C1/264 E03C1/2665
European: E03C1/264 E03C1/266B
US: 15/105 15/105P 241/46.016 4/222.1 4/294 4/295



Family:

Publication number	Publication date	Application number	Application date
US2009094766 AA	20090416	US20070870569	20071011
US8112823 BB	20120214	US20070870569	20071011

Priority:

US20070870569 20071011

Probable Assignee: DISPOSAL GUARD INC

Assignee(s): (std): DISPOSAL GUARD INC ; DOMBROWSKI THOMAS K

Inventor(s): (std): DOMBROWSKI THOMAS K

Agent(s): CLAUSEN MILLER PC

Title: URINAL DRAIN TRAP

Abstract: Source: US2012167296A Provided is a urinal drain trap which is capable of preventing diffusion of odor for a long period of time. The urinal drain trap (10) is equipped with a lid (11) having an inlet (11A); a body (12) having an outlet (12C); and a tubular partition wall (13). The interior of the body (12) is divided into a first region (31) and a second region (32). The first region (31) and the second region (32) are linked with each other by a third region (33). Sealing liquid is injected into the first region (31), this sealing liquid being non-water-soluble, having a lower specific gravity than urine, and forming a sealing layer (S) at an elevation above retained urine. In a peripheral area of the lower end of the partition wall (13), there is formed a connecting portion (14) which extends laterally. In a peripheral area of the tip of the connecting portion (14), there is formed a folded portion (15) which extends upward. Between the partition wall (13) and the folded portion (15), the inlet (11A) is provided, in such a way as to form a through opening, at a location where urine flows in from above. The outlet (12C) is located in the second region (32) and is open at an elevation above the upper end of the folded portion (15).

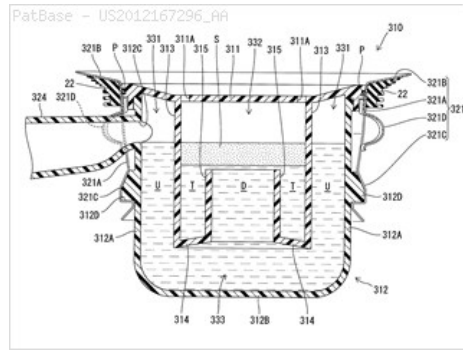
Classifications:

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CPC: E03C1/281 E03C1/29

European: E03C1/28B E03C1/29

US: 4/311 4/311P



Family:

Publication number	Publication date	Application number	Application date
CN102597382 A	20120718	CN201080043631	20100924
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JP2011074610 A2	20110414	JP20090224791	20090929
JP2011094473 A2	20110512	JP20100208921	20100917
JP5191465 B2	20130508	JP20090224791	20090929
JP5700484 B2	20150415	JP20100208921	20100917
KR20120090983 A	20120817	KR20127007278	20100924
SG178959 A1	20120427	SG20120001489	20100924
TW201116674 A	20110516	TW20100132747	20100928
US2012167296 AA	20120705	US20100394850	20100924
WO11040319 A1	20110407	WO2010JP66518	20100924

Priority:

JP20090224791 20090929 JP20090224799 20090929 JP20100208921 20100917
WO2010JP66518 20100924

Probable Assignee: LIXIL CORP

Assignee(s): (std): CHAYA KAZUHISA ; HAIDA SHUHEI ; HANDA SHUHEI ; INAX CORP ; KITAMURA SATOSHI ; YAMASAKI HARUO ; NOMURA KAZUTERU ; KONDO AKIKO ; NAKAYAMA YUJI ; LIXIL CORP

Inventor(s): (std): AKIKO KONDO ; CHATANI KAZUHISA ; CHAYA KAZUHISA ; HANDA SHUHEI ; HARUO YAMASAKI ; KAZUHISA CHAYA ; KAZUTERU NOMURA ; KITAMURA SATOSHI ; KITAMURA SOETSU ; HAIDA SHUHEI ; KONDO AKIKO ; NAKAYAMA YUJI ; NOMURA KAZUTERU ; SATOSHI KITAMURA ; SHUHEI HAIDA ; YAMASAKI HARUO ; YAMAZAKI HARUO ; YUJI NAKAYAMA

Agent(s): GRANDOM PATENT LAW FIRM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DEVICE FOR USE WITH DRAINS

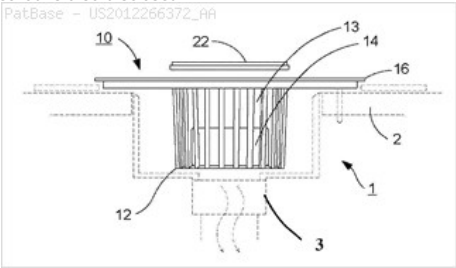
Abstract: Source: US2012266372A A treatment assembly for a drain is provided. The treatment assembly includes a skirt configured for covering the drain and a basket assembly configured for being received beneath the skirt and between an opening of the drain. The basket assembly contains a treatment material for providing treatment to the drain. A related method is also disclosed.

Classifications:

International (IPC 8-9): A47K1/14 B23P11/00 B23P11/02 B25B27/14 C02F1/68 E03C1/126 E03C1/20 E03C1/26 E03C1/28 E03F5/04 E03F5/06 (Advanced/Invention)

CPC: E03F5/04 A47K1/14 E03C1/264 C02F1/68 E03F5/041 E03C1/126 E03F5/06 Y10T29/49822 Y10T29/49826 Y10T29/53943 Y10T137/794

US: 137/544 210/163 210/164 210/166 29/278 29/426.5 29/428 4/290 4/294 422/255



Family:

Publication number	Publication date	Application number	Application date
CA2832867 AA	20131009	CA20122832867	20120420
CN203729391 U	20140723	CN201290000429U	20120420
EP2699737 A1	20140226	EP20120774743	20120420
EP2699737 A4	20141126	EP20120774743	20120420
US2012266372 AA	20121025	US20120452090	20120420
US2012266982 AA	20121025	US20120419402	20120313
US2012267296 AA	20121025	US20120419326	20120313
US2013087486 AA	20130411	US20120419339	20120313
US2013185857 AA	20130725	US20130778185	20130227
US2013240424 AA	20130919	US20130778177	20130227
US2014231323 AA	20140821	US20140262723	20140426
US8409433 BB	20130402	US20120419402	20120313
US8721880 BB	20140513	US20130778177	20130227
WO12145634 A1	20121026	WO2012US34464	20120420
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WO12145643 A1	20121026	WO2012US34478	20120420

Priority:

US20110477187P	20110420	US20110510540P	20110722	US20110544037P	20111006
US20120419402	20120313	US20120419326	20120313	US20120419339	20120313
US20120452090	20120420	US20130778185	20130227	US20130778177	20130227
WO2012US34478	20120420	US20140262723	20140426		

Probable Assignee: AROMATIC DRAIN DEVICE INC

Assignee(s): (std): AROMATIC DRAIN DEVICE INC ; AROMATIC DRIAN DEVICE INC ; CLEARLY BETTER LLC ; EPSTEIN JAMES ; FORREST PAUL ; NIFONG JUSTIN ; MANGRUM MARK ; WORTH THOMAS ; NIFONG JUSTIN R ; FORREST PAUL BRADLEY ; INTERCON CHEMICAL CO ; NIFONG JUSTIN ROBERT

Inventor(s): (std): EPSTEIN JAMES ; FORREST PAUL ; FORREST PAUL BRADLEY ; MANGRUM MARK ; NIFONG JUSTIN ; NIFONG JUSTIN R ; NIFONG JUSTIN ROBERT ; WORTH THOMAS

Agent(s): FOOT PAUL MATTHEW JAMES; OLIVE LAW GROUP PLLC; NK PATENT LAW PLLC; NIFONG JUSTIN R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

harold

Search history

Search 1: Toilets (Results 9604)

Search 2: sanitary device (Results 957)

Search 3: toilet bowl (Results 16836)

Search 4: toilet AND separate parts (Results 44)

Search 5: traps in drain (Results 1)

Search 6: toilet separating (Results 7)

Search 7: component of a toilet separating (Results 1)

Search 8: DEVICE FOR SEPARATING AND DISPOSING OF FAECES AND URINE IN URINE SEPARATION TOILETS (Results 1)

Search 9: The toilet bowl is divided into two areas (Results 0)

Search 10: urinal drain trap (Results 3)

Search 11: DRAIN FILTER APPARATUS AND TRAP AND HOUSING ASSEMBLY (Results 0)

Search 12: DRAIN FILTER APPARATUS AND TRAP (Results 1)

Search 13: Waterless urinal (Results 85)

Search 14: Drain AND Sink strainer (Results 64)

Search 15: Basket-trap for water-closets (Results 0)

Search 16: Basket-trap (Results 5)

Search 17: drain pipe with improved straining structure (Results 1)

Search 18: Drain strainer (Results 100)

Search 19: Urinal drain trap AND Seal (Results 2)

Search 20: FN=(4278461 OR 8331665 OR 894003 OR 4368437 OR 12144724) (Results 5)

Search 21: FN=(48725119 OR 51311589 OR 23268300 OR 58397129 OR 30537359 OR 15309312 OR 15640656 OR 29774539 OR 19166523) (Results 9)

Search 22: FN=(322987 OR 25276969 OR 20749244 OR 18841751) (Results 4)

Search 23: PN=(DE1609239 OR 48725119 OR 51311589 OR 23268300 OR 58397129 OR 30537359 OR 15309312 OR 15640656 OR 29774539 OR 19166523) (Results 2)

Search 24: FN=(4278461 OR 14640989) (Results 2)

Search 25: 21 AND 23 (Results 0)

Search 26: PN=(DE1609239 OR WO0242569 OR WO09520078 OR WO09219824 OR WO1999023319 OR WO0233183) (Results 5)

Search 27: DRAIN FILTER APPARATUS AND TRAP AND HOUSING ASSEMBLY (Results 0)

Search 28: DRAIN FILTER APPARATUS (Results 8)

Search 29: Waterless urinal (Results 85)

Search 30: Sink strainer (Results 217)

Search 31: Basket-trap for water-closets (Results 0)

Search 32: Basket-trap AND water-closets (Results 0)

Search 33: drain AND straining structure (Results 3)

Search 34: Drain filter apparatus (Results 8)

Search 35: Drain strainer (Results 100)

Search 36: Urinal drain trap AND Seal (Results 2)

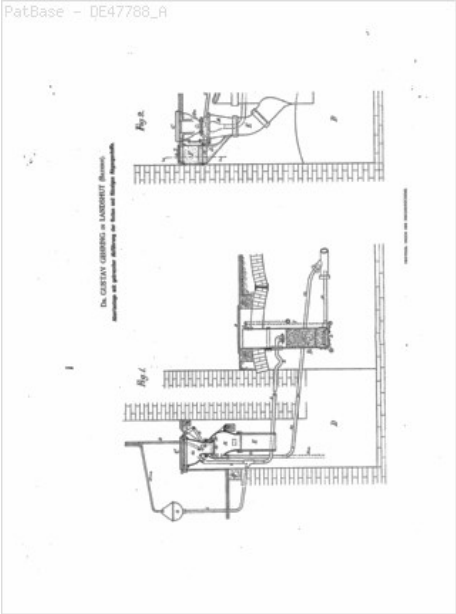
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Search 38: 21 AND 37 (Results 0)

Search 39: 21 OR 37 (Results 34)

Search 22 OR 21 (Results 13)
40:
Search 14 AND 40 (Results 0)
41:
Search 40 OR 39 (Results 38)
42:

Classifications:
International (IPC 8-9): E03D5/014 (Advanced/Invention);
E03D5/00 (Core/Invention)
International (IPC 1-7): E03D5/014 E03F5/14
CPC: E03D5/014
European: E03D5/014



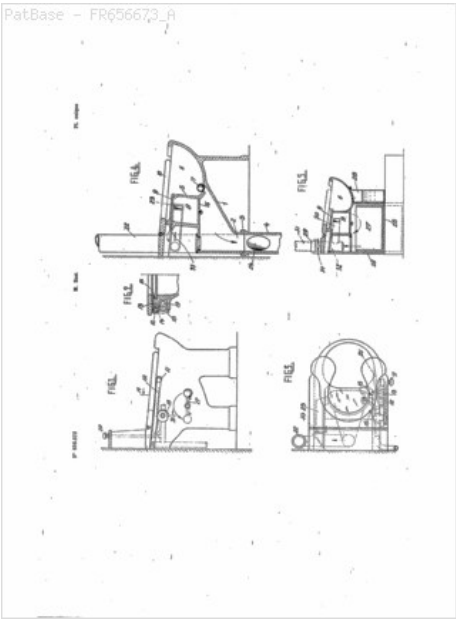
Family:

Publication number	Publication date	Application number	Application date
DE47788 A	00000000		00000000

Title: Closet

Classifications:

International (IPC 8-9): E03D11/02 E03D5/09 (Advanced/Invention);
E03D11/02 E03D5/00 (Core/Invention)
International (IPC 1-7): E03D11/02 E03D5/09
CPC: E03D5/09 E03D11/025
European: E03D11/02B E03D5/09



Family:

Publication number	Publication date	Application number	Application date
FR656673 A	19290511		19280428

Priority:

19280428

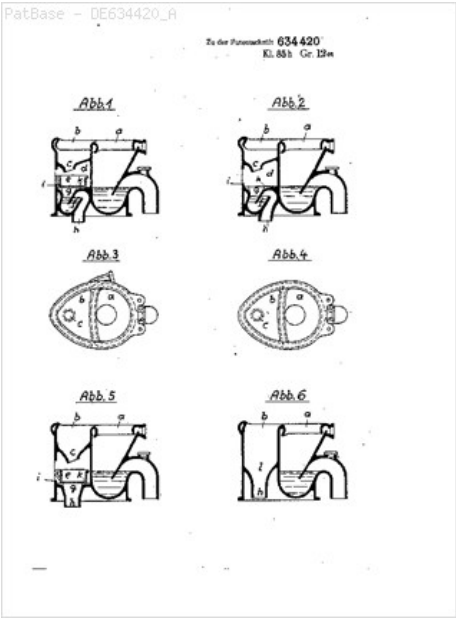
Inventor(s): (std): BAST EMIL

Title: Klosett mit getrennten Abteilungen fuer Darm- und fuer Harnblasenentleerung WC with separate compartments for bowel and bladder emptying for (Machine translation)

Abstract: Source: DE634420A (Claim 1) 1. PATENTANSPRUECHE: i. Klosett mit getrennten Abteilungen fuer Darm- und fuer Harnblasenentleerung, dadurch gekennzeichnet, dass die Abteilun gen (a undb) gesonderte Abfluesse mit oder ohne Spuelung besitzen.

Machine translation: (claim 1) 1 CLAIMS: i closet with separate compartments for bowel and bladder emptying for, characterized in that the departments have conditions (a andb) a separate outflows with or without irrigation.

Classifications:
International (IPC 8-9): E03D11/02 (Advanced/Invention); E03D11/02 (Core/Invention)
International (IPC 1-7): D06N3/00 E03D11/02
CPC: E03D11/025
European: E03D11/02B



Family:

Publication number	Publication date	Application number	Application date
DE634420 A	19360827	DE1935L087557D	19350221

Priority:
DE1935L087557 19350221

Probable Assignee: JOAEF LORENZER FA

Assignee(s): (std): JOAEF LORENZER FA

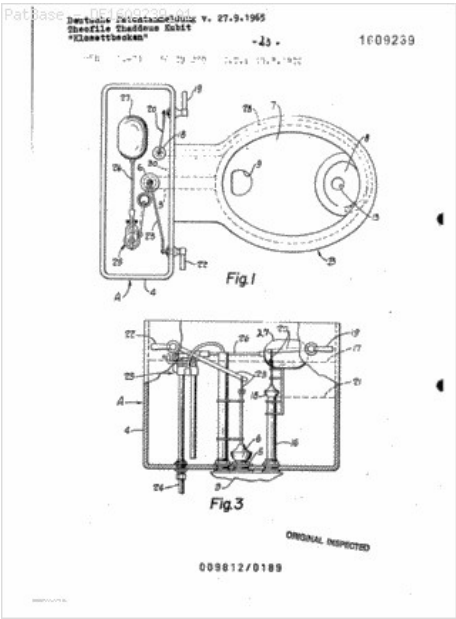
Assignee(s): FIRMA JOAEF LORENZER

Title: Klosettbecken Toilet bowl (Machine translation)

Abstract: Source: DE1609239A1 (Claim 1) 1. Klosettbecken, gekennzeichnet durch eine Haupt schuessel und eine an diese angrenzende Urinschues sel, Wasserzuleitungsmittel fuer das Klosettbecken, Spuelmittel zum Spuelen der Hauptschuessel einschliess- lich ventilgesteuerter mit den Wasserzuleitungs- mitteln verbundener Mittel zum Steuern des Wasser stromes von diesen zu den Spuelmitteln, zweite Spuelmittel zum Spuelen der Urinschuessel einschliess- lich zweiter ventilgesteuerter mit den Wasserzulei- tungsmitteln verbundener Mittel zum Steuern des Wasserstromes zu den zweiten Spuelmitteln.

Machine translation: (Claim 1) 1 Toilets, characterized by a main dish and one adjacent to the urine Schues sel, water supply facilities for the toilet bowl, dish soap to wash the main bowl condition, including valve controlled by the water feed line-transmitted associated means for controlling the flow of water from these to the detergents, second detergent can to Washings of the urine bowl condition, including second valve controlled by the Wasserzulei-saving appliances connected means for controlling the water flow to the second rinses.

Classifications:
International (IPC 8-9): E03D1/14 E03D11/02 (Advanced/Invention); E03D1/02 E03D11/02 (Core/Invention)
International (IPC 1-7): E03D1/14
CPC: E03D1/145 E03D11/025
European: E03D1/14D3 E03D11/02B



Family:

Publication number	Publication date	Application number	Application date
DE1609239 A1	19700319	DE19651609239	19650928

Priority:

DE1965K057244 19650928

Probable Assignee: KUBIT THEOFIL THADDEUS

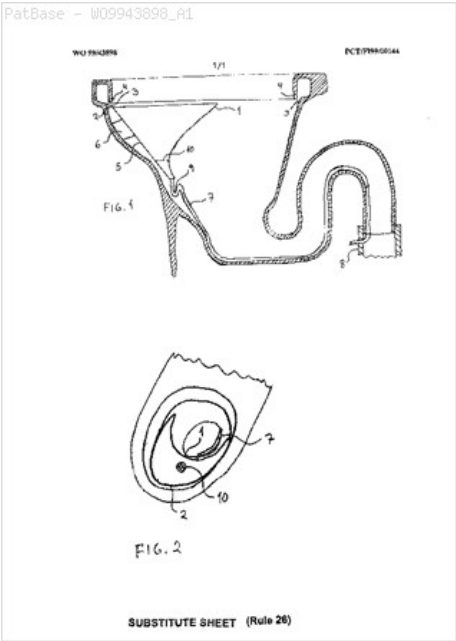
Assignee(s): (std): KUBIT THEOFIL THADDEUS

Inventor(s): (std): THADDEUS KUBIT THEOFIL

Title: SORTING WC-ACCESSION

Abstract: A crescent-shaped interior component of a toilet separating urine from faeces that can be easily installed as an accessory in a conventional toilet. The device utilizes part of the flush water intended for normal flushing and conducts the urine-water solution emerging from the device to be absorbed into the soil or to separate collection.

Classifications:
International (IPC 8-9): E03D11/02 E03D5/014 (Advanced/Invention)
International (IPC 1-7): E03D E03D11/02 E03D13/00 E03D9/00
CPC: E03D5/014 E03D11/025
European: E03D11/02B E03D5/014



Family:

Publication number	Publication date	Application number	Application date
AU199932547 A1	19990915	AU19990032547	19990224
FI103687 B	19990813	FI19980000438	19980226
FI980438 A0	19980226	FI19980000438	19980226
WO9943898 A1	19990902	WO1999FI00144	19990224

Priority:

FI19980000438 19980226 WO1999FI00144 19990224

Probable Assignee: OESTMAN HENRIK GUSTAV

Assignee(s): (std): HENRIK GUSTAV OSTMAN ; OESTMAN HENRIK GUSTAV

Assignee(s): OSTMAN HENRIK GUSTAV

Inventor(s): (std): OESTMAN HENRIK GUSTAV ; OSTMAN HENRIK GUSTAV

Inventor(s): HENRIK GUSTAV OSTMAN

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Title: METHOD AND DEVICE FOR SEPARATING AND DISPOSING OF FAECES AND URINE IN URINE SEPARATION TOILETS

Abstract: The invention relates to a urine separation toilet. Said toilet can be constructed without a partition between the urine and faecal outlets in such a way that the whole bowl can be cleaned during the flush operation and that the toilet paper in the urine outlet area, together with yellow deposits can be transported to the faecal outlet area. The toilet can nevertheless maintain a water-free disposal of urine.

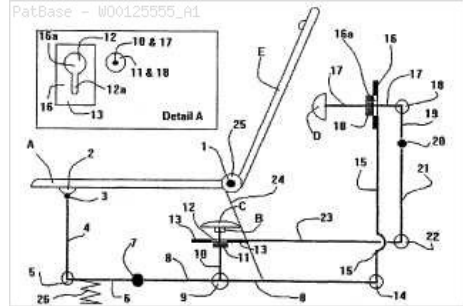
Classifications:

International (IPC 8-9): E03D11/02 E03D5/014 E03D5/04 (Advanced/Invention); E03D11/02 E03D5/00 (Core/Invention)

International (IPC 1-7): E03D11/02

CPC: E03D5/014 E03D5/04 E03D11/025

European: E03D11/02B E03D5/014 E03D5/04



Family:

Publication number	Publication date	Application number	Application date
AT335107 E	20060815	AT20000969407T	20001004
AU200079135 A5	20010510	AU20000079135D	20001004
AU780193 B2	20050310	AU20000079135	20001004
DE50013263 D1	20060914	DE20005013263	20001004
EP1135561 A1	20010926	EP20000969407	20001004
EP1135561 B1	20060802	EP20000969407	20001004
ES2270875 T3	20070416	ES20000969407T	20001004
NZ512755 A	20031219	NZ20000512755	20001004
WO0125555 A1	20010412	WO2000EP09700	20001004

Priority:

DE19991047648 19991004 DE19991048322 19991007 WO2000EP09700 20001004
DE20005013263 20001004

Probable Assignee: BRAUN ULRICH

Assignee(s): (std): BRAUN ULRICH ; ULRICH BRAUN

Inventor(s): (std): BRAUN ULRICH ; ULRICH BRAUN

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: TOILET BOWL

Abstract: The invention relates to a toilet bowl (10) comprising a forward section (12) for draining away urine by means of an optionally sealable first opening (26) leading to a first outlet and a second rearward section for removal of faecal material leading to a second outlet (16). The forward section (12) comprises a base (20) tilted towards the second section (14), flowing into the second section (14) with no separating wall and with the urine draining first opening (26) set in said base, thereby securing a reliable separation of urine and faeces while at the same time permitting problem-free cleaning of the urine section.

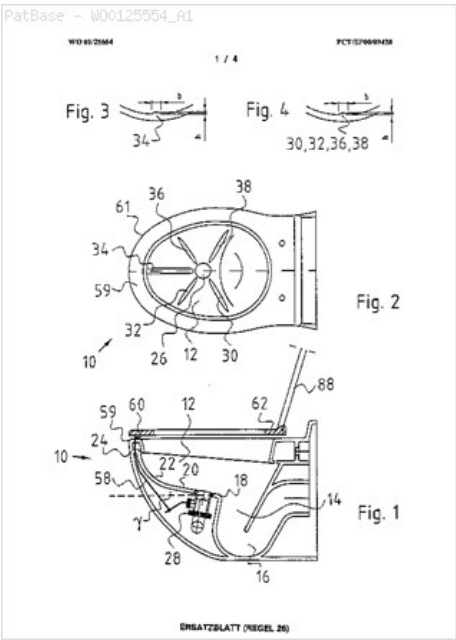
Classifications:

International (IPC 8-9): E03D11/02 E03D11/10 E03D5/012 E03D5/014 (Advanced/Invention); E03D11/02 E03D5/00 (Core/Invention)

International (IPC 1-7): E03D11/02 E03D11/10 E03D5/012

CPC: E03D5/014 E03D11/02

European: E03D11/02 E03D5/014



Family:

Publication number	Publication date	Application number	Application date
AU200074222 A5	20010510	AU20000074222D	20000927
CN1218098 C	20050907	CN20008016764	20000927
CN1408040 A	20030402	CN20008016764	20000927
DE19958557 A1	20010412	DE19991058557	19991204
DE19958557 B4	20081120	DE19991058557	19991204
WO0125554 A1	20010412	WO2000EP09438	20000927

Priority:

DE19991048291 19991006 DE19991058557 19991204 WO2000EP09438 20000927

Probable Assignee: PASSAVANT ROEDIGER UMWELTTECH

Assignee(s): (std): GALLER LOTHAR ; PASSAVANT ROEDIGER UMWELTTECH ; PASSAVANT ROEDIGER UMWELTTECHN ; ROEDIGER VACUUM GMBH ; ROEDIGER VACUUM U HAUSTECHNI ; ROEDIGER VACUUM U HAUSTECHNIK GMBH ; ROEDIGER VAKUUM U HAUSTECHNI ; ROEDIGER VAKUUM UND HAUSTECHNI ; ROEDIGER VACUUM UND HAUSTECHNI ; ROEDIGER VAKUUM AND HAUSTECHNIK

Assignee(s): ROEDIGER VAKUUM U HAUSTECHNIK GMBH ; ROEDIGER VACUUM UND HAUSTECHNIK GMBH ; ROEDIGER VAKUUM UND HAUSTECHNIK GMBH ; PASSAVANT ROEDIGER UMWELTTECHNIK GMBH

Inventor(s): (std): GALLER LOTHAR ; L GALLER ; GALLER L

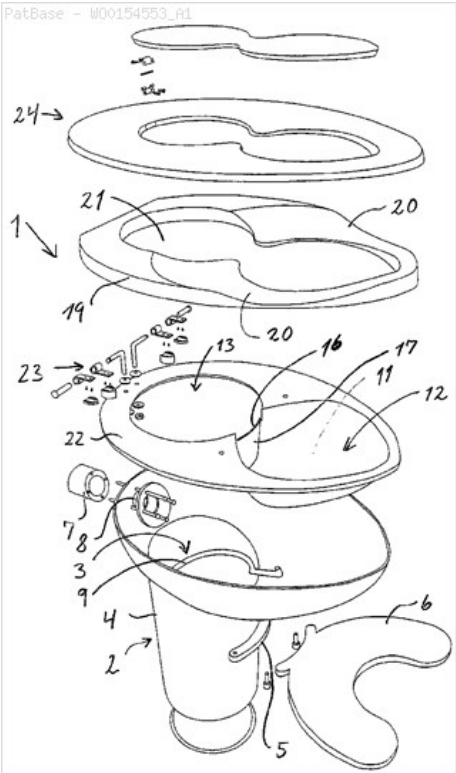
Inventor(s): LOTHAR GALLER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: LAVATORY

Abstract: A lavatory has separate compartments (11, 14) for receiving and disposing urine and faeces, respectively. A seat (19) comprises a frame (22) on which is mounted an operating mechanism (29) for opening and closing a seat covering the faeces opening (13). A mechanism is provided at each side of the seat for activating two cover plates (26, 27). The mechanism comprises a springbiased cylinder (30) which comprises a tappet (31) interacting with a tappet face (33) in a rotatable bushing (34) secured to an operating lever (35) for the cover plates (26, 27). When the user uses the lavatory, the cover plates will automatically pivot aside because of the user's weight. When the user rises, the cover plates will return and close the faeces opening (13).

Classifications:
International (IPC 8-9): A47K11/02 (Advanced/Invention);
A47K11/00 (Core/Invention)
International (IPC 1-7): A47K11/02
CPC: A47K11/02
European: A47K11/02



Family:

Publication number	Publication date	Application number	Application date
AT306208 E	20051015	AT20010900096T	20010103
AU2001223524 AA	20010807	AU20010223524	20010103
CN1177562 C	20041201	CN20018004183	20010103
CN1396814 A	20030212	CN20018004183	20010103
DE60113963 D1	20051117	DE20016013963	20010103
DE60113963 T2	20060629	DE20016013963T	20010103
EP1251764 A1	20021030	EP20010900096	20010103
EP1251764 B1	20051012	EP20010900096	20010103
WO0154553 A1	20010802	WO2001DK00001	20010103

Priority:

DK20000000127 20000127 WO2001DK00001 20010103

Probable Assignee: INGE SLOTH CHRISTIANSEN

Assignee(s): (std): CHRISTIANSEN INGE SLOTH ; INGE SLOTH CHRISTIANSEN

Inventor(s): (std): CHRISTIANSEN INGE SLOTH ; INGE SLOTH CHRISTIANSEN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: TOILET BOWL

Abstract: The invention relates to a toilet bowl (10) comprising separate parts (12, 16) respectively provided for receiving urine and feces. The aim of the invention is to effect a reliable separation between urine and feces with the use of structurally simple measures. To this end, the invention provides that an opening (32), which starts from the urine-receiving part, leads into a space (36) that, on the one hand, verges into a urine discharge (48) and, on the other hand, is connected to the feces-receiving part.

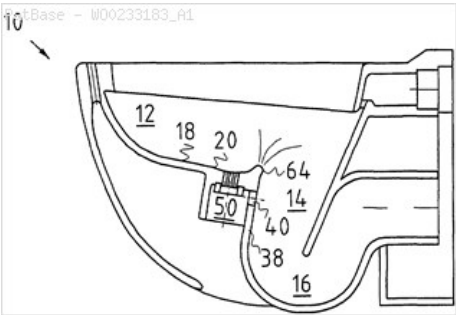
Classifications:

International (IPC 8-9): E03D11/02 E03D5/014 (Advanced/Invention); E03D11/02 E03D5/00 (Core/Invention)

International (IPC 1-7): E03D11/02 E03D5/014

CPC: E03D5/014 E03D11/025

European: E03D11/02B E03D5/014



Family:

Publication number	Publication date	Application number	Application date
AT431879 E	20090615	AT20010974330T	20011006
AU2001293866 AA	20020429	AU20010293866	20011006
AU200193866 A5	20020429	AU20010093866	20011006
CN1218099 C	20050907	CN20018020468	20011006
CN1479828 A	20040303	CN20018020468	20011006
DE10051280 A1	20020502	DE20001051280	20001016
DE10051280 C2	20021010	DE20001051280	20001016
DE50114905 D1	20090702	DE20015014905	20011006
EP1327031 A1	20030716	EP20010974330	20011006
EP1327031 B1	20090520	EP20010974330	20011006
WO0233183 A1	20020425	WO2001EP11537	20011006

Priority:

DE20001051280 20001016 WO2001EP11537 20011006

Probable Assignee: ROEDIGER VAKUUM AND HAUSTECHNIK

Assignee(s): (std): BETZ REINHOLD ; ROEDIGER VACUUM GMBH ; ROEDIGER VAKUUM AND HAUSTECHNIK ; ROEDIGER VAKUUM U HAUSTECHNI ; ROEDIGER VAKUUM UND HAUSTECHNI

Assignee(s): ROEDIGER VAKUUM UND HAUSTECHNIK GMBH ; ROEDIGER VAKUUM U HAUSTECHNIK GMBH

Inventor(s): (std): BETZ R ; BETZ REINHOLD ; R BETZ

Inventor(s): REINHOLD BETZ

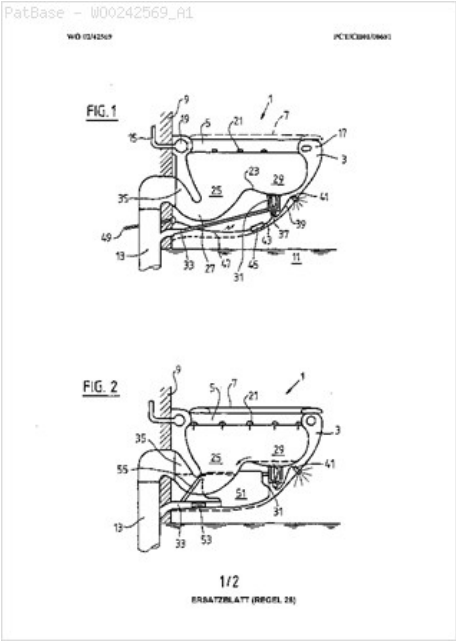
Agent(s): STOFFREGEN HANS HERBERT

Designated states: BE AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: WC SYSTEM

Abstract: The toilet bowl (3) is divided into two areas, a faeces chamber (25) and a urine chamber (29). Said urine chamber (29) opens into a valve container (31), as disclosed in WO 99/57382. The urine exits the valve container (31) either directly into a sewer pipe (13) or preferably into a storage tank (51), which can be emptied at intervals by means of a valve (53). The valve (53) is controlled remotely by radio or ripple control.

Classifications:
International (IPC 8-9): E03D11/02 E03D5/014 (Advanced/Invention); E03D11/02 E03D5/00 (Core/Invention)
International (IPC 1-7): E03D11/02 E03D5/014
CPC: E03D5/014 E03D11/025
European: E03D11/02B E03D5/014



Family:

Publication number	Publication date	Application number	Application date
AU2002213736 AA	20020603	AU20020213736	20011121
EP1336008 A1	20030820	EP20010982039	20011121
WO0242569 A1	20020530	WO2001CH00681	20011121

Priority:
CH20000002276 20001123 WO2001CH00681 20011121

Probable Assignee: URIMAT HOLDING AG

Assignee(s): (std): KELLER HANS ; URIMAT HOLDING AG

Inventor(s): (std): KELLER HANS

Inventor(s): HANS KELLER

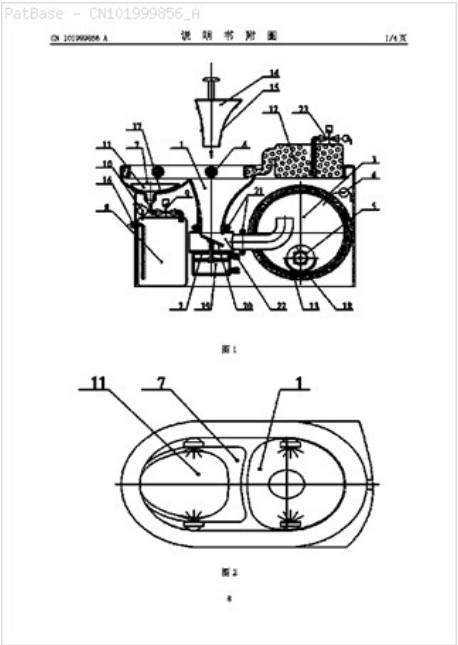
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Title: NON-DISCHARGE AND WATER-FREE FLUSHING URINAL AND USING METHOD THEREOF

Abstract: Source: CN101999856A The invention relates to a non-discharge and water-free flushing urinal and a using method thereof. The non-discharge and water-free flushing urinal comprises a closet pan and a movable gap inner container matched with the inner side of the closet pan, wherein the closet pan is communicated with a vacuum storage tank by a valve device, a vacuum pump is connected to the vacuum storage tank, an excrement spiral output device is arranged in the vacuum storage tank, and at least one atomizing head is arranged on the inner wall of an upper ledge of the closet pan; and a urinal is arranged on the front side of the closet pan, a urine cover is arranged on the inner wall of the urinal, the urinal is communicated with a negative pressure storage tank by a solenoid valve, a negative pressure pump is connected to the negative pressure storage tank, a urine output pipe joint is arranged in the negative pressure storage tank, and the at least one atomizing head is arranged on the inner wall of an upper ledge of the urinal. In the non-discharge and water-free flushing urinal, the urinal is washed without water, so valuable water resources are saved; and dried excrement is outputted to a storage bag spirally, and pure urine is extracted to the storage tank directly to avoid discharge, and ecological environment is not damaged any more.

Classifications:

International (IPC 8-9): A47K11/00 E03D5/014 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN101999856 A	20110406	CN201010574458	20101206
CN101999856 B	20121010	CN201010574458	20101206

Priority:

CN201010574458 20101206

Probable Assignee: YONGXIANG ZHENG

Assignee(s): (std): YONGXIANG ZHENG

Assignee(s): ZHENG YONGXIANG

Inventor(s): (std): YONGXIANG ZHENG

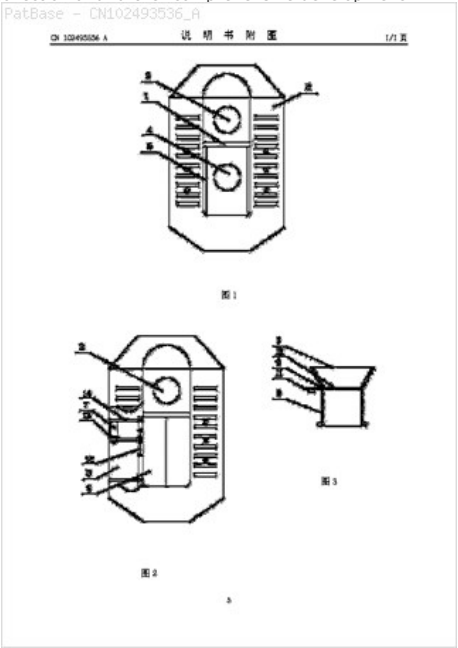
Inventor(s): ZHENG YONGXIANG

Title: WATER-SAVING SQUATTING PAN

Abstract: Source: CN102493536A The invention relates to a squatting pan, particularly to a water-saving squatting pan, which comprises a trough-shaped squatting pot and foot pedals arranged on both sides of the squatting spot. The water-saving squatting pan is characterized in that a stool hole and a urine hole are arranged in the squatting pot; a transversal partition is arranged between the stool hole and the urine hole; a cavity is arranged below each foot pedal; a pot lateral hole is arranged on each pot wall between the cavities and the stool hole; a flashboard is mounted in each pot lateral hole; a driving motor is arranged in each cavity; and the driving motors are in transmission connection with the flashboards. The water-saving squatting pan disclosed by the invention consumes less water in use, and has excellent odor removal and isolation effects; moreover, the urine and the droppings can be separated to facilitate respective collection and further comprehensive development.

Classifications:

International (IPC 8-9): E03D5/014 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102493536 A	20120613	CN201110423474	20111216

Priority:

CN201110423474 20111216

Probable Assignee: MIN YAN

Assignee(s): (std): MIN YAN

Assignee(s): YAN MIN

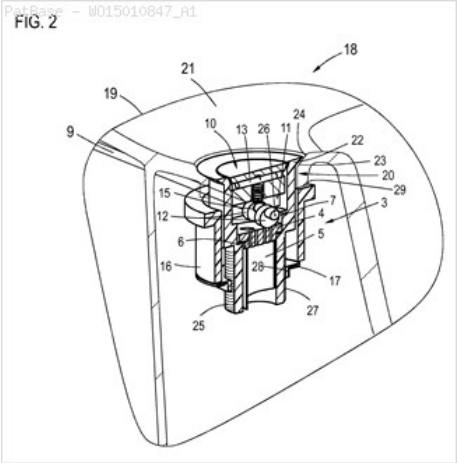
Inventor(s): (std): MIN YAN

Inventor(s): YAN MIN

Title: OUTFLOW VALVE FOR INSERTING INTO AN OUTFLOW OPENING OF A LAVATORY OR URINAL

Abstract: An outflow valve for inserting into an outflow opening of a lavatory or urinal, comprising a cylindrical main body (2) in which there is arranged a valve component (3), which closes off the outflow cross section of the main body (2), and an eccentric element (7), which is rotatable about a pivot axis (26) running perpendicular to the longitudinal axis of the main body (2) and which is arranged above the valve element (3), which eccentric element interacts with a cover element (10), which closes off the main body (2), such that in the event of a rotation of the eccentric element (7) effected by means of an actuation element (8) coupled to the eccentric element (7), the cover element (10) can be moved counter to a restoring force from a closed position, in which it closes the main body (2), into an open position, in which it opens the main body (2).

Classifications:
International (IPC 8-9): E03C1/23 E03C1/288 E03D13/00 E03D5/012 E03D5/014 F16K1/34 (Advanced/Invention)
CPC: E03C1/23 E03C1/288 E03D13/007



Family:

Publication number	Publication date	Application number	Application date
DE102013107824 A1	20150129	DE201310107824	20130723
WO15010847 A1	20150129	WO2014EP63539	20140626

Priority:

DE201310107824 20130723

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW