

The Encyclopoodia

A compendium of toilets for the sake of inspiring great solutions to meet that need that no one wants to talk about



Compiled by George Chin, Kory Russel and Sebastien Tilmans for

resource
resourcesanitation.com

Purpose

We first began compiling this encyclopoodia as a reference for design inspiration as we worked to develop an aspirational cartridge-based household toilet. We did not seek to create a compendium of alternative, low-cost, or low-tech solutions (there are many great references for that already, and the library at SuSanA (<http://susana.org/lang-en/library>) is a good place to start looking). Instead, we sought to explore different approaches to the user interface- What kinds of aesthetics and ergonomics can make a toilet intuitive and pleasant to use? How can the toilet's environment modify the user experience? What makes a toilet stylish, sexy, luxurious, appealing? How can it fit into a home? What can we learn from the technology being deployed in high-end toilets? Finally, because our particular context favors portable, waterless solutions, we paid particular attention to solutions targeting that use case. As this document grew and we learned more about the thousand nuances of loos, bogs, cans, etc. we felt it could serve as a resource for other teams and decided to publish it for general use. We hope you derive as much insight and enjoyment from browsing through it as we did in compiling it.

Disclaimer

The material and information included in this document was compiled from materials freely available on the Internet. While we have made every effort to ensure the information is accurate and to provide proper attribution for the sources of content, we do not certify that the content remains accurate or current. We do not take responsibility for omissions or errors, and apologize in advance for any that emerge.

Inclusion of a toilet in this compendium is not an endorsement, and we don't make any claims or statements about the quality of the products grouped here. We have no financial interest in any of these toilet designs, and have no financial stake in this Encyclopoodia. Our aim is simply to share the manner in which we organized pre-existing content.

Acknowledgements

The Encyclopoodia is one of many mini-projects the re.source team pursued as part of a larger initiative to develop and deploy household sanitation service in dense urban settlements. Many partners have been instrumental in that work, but we especially want to acknowledge our partner in Haiti, SOIL (oursoil.org), the residents of Cap Haitien who taught us so much about sanitation in their environment, and our major sources of funding (The Bill and Melinda Gates Foundation, the SEED Institute at Stanford University, and the Woods Institute for the Environment at Stanford University).

Historical Toilets

Greek Toilet (292 B.C. – 700 A.D.)



Features:

- Horseshoe shaped holes
- Marble-polished on top
- Water channel in front of toilet row for hand-washing
- Public toilets without privacy

Links:

1. http://toilet-guru.com/biblical_new.php

Scottish Latrine Blocks



Features:

- Rows of holes seats
- Rectangular drainage channel below
- Drained by water to nearby shoreline

Links:

1. <http://toilet-guru.com/medievalscottish.php>

King Louis XIII's throne



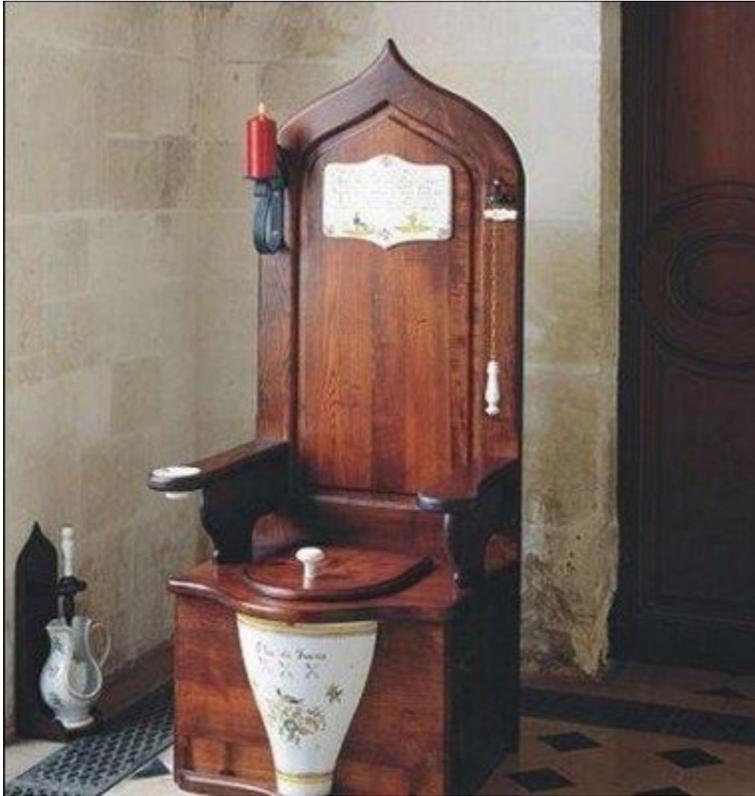
Features:

- **Commode under the throne**
- **Allows the use the toilet while giving audience**

Links:

1. <http://www.sulabhtoiletmuseum.org/mus02.htm>

Wooden Chair Toilet



Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

English Excrement Pails

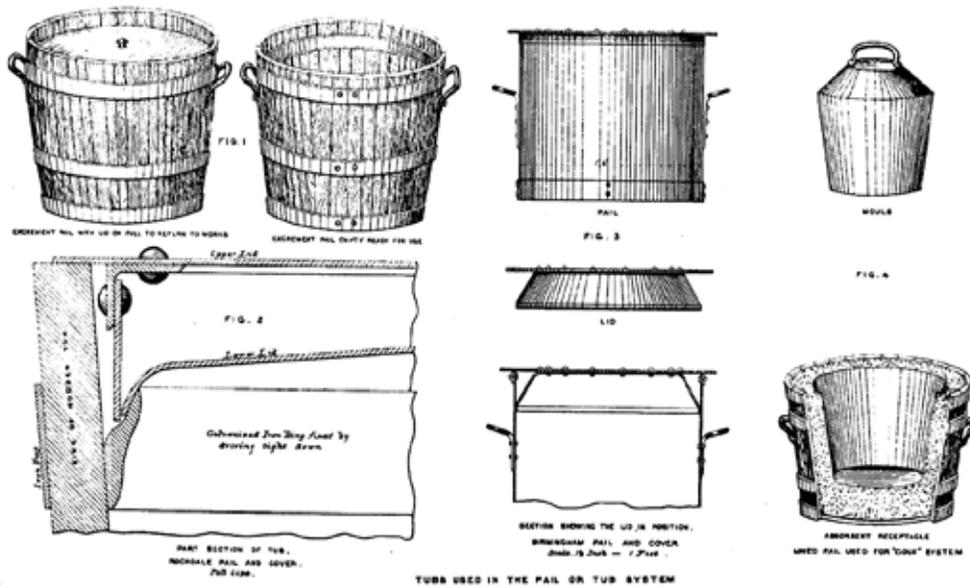


PLATE III

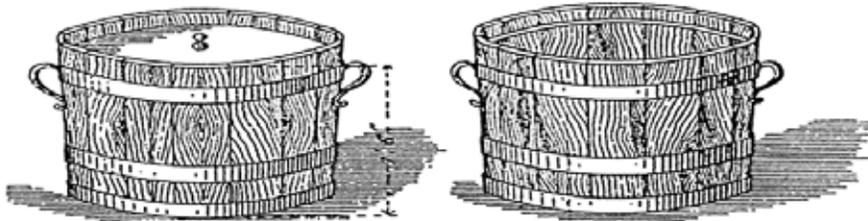


FIG. 2.—Elevation with Cover.

FIG. 3.—Elevation without Cover.



PAIL WITH AIR-TIGHT SPRING COVER.
FIG. 4.—Elevation.

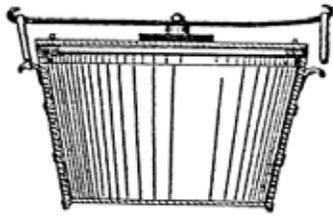
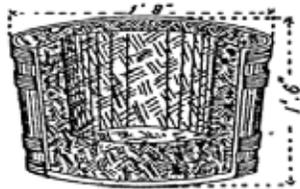


FIG. 5.—Section.



PAIL WITH ABSORBENT LINING FOR "GOUX" SYSTEM.
FIG. 6.—Section.

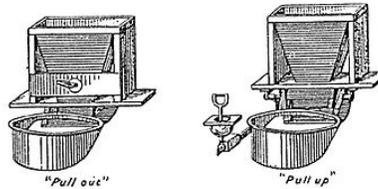


FIG. 7.—Mould.

Links:

1. <http://www.sewerhistory.org/grfx/privbath/toilet1b.htm>

Henry Moule's Earth Closet



Figs. 8 and 9.—Moule's Earth Closets.

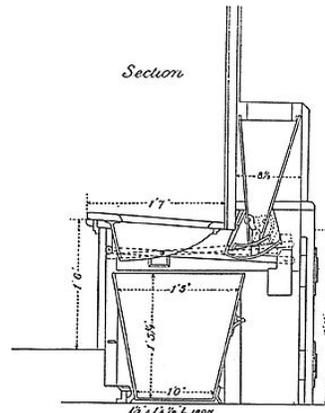


FIG. 10.—Section of Moule's Automatic Earth Closet.

Features:

- Early Composting Toilet
- Rear-end dispenser for cover material

Links:

1. http://en.wikipedia.org/wiki/Henry_Moule
2. http://www.sewerhistory.org/images/bm/bms8/1909_bms803.gif

Waring Earth Closet Designs



Fig. a.

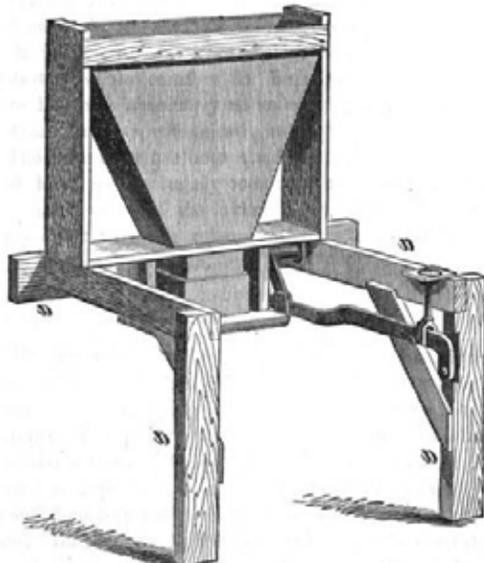


Fig. 1.

THE "SELF-ACTING" APPARATUS.

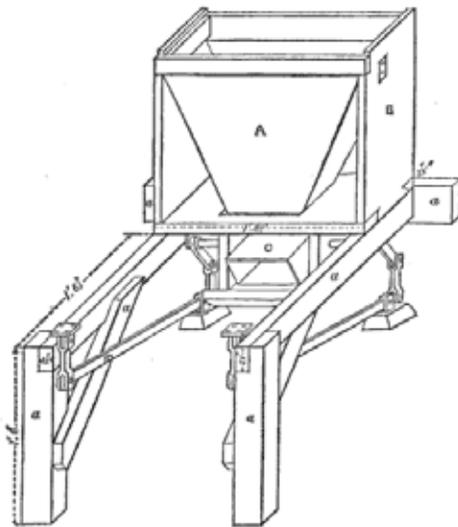


Fig. 3.

COMMODOES.



Source:

"Earth-closets" By George Edwin Waring

http://books.google.com/books/about/Earth_closets.html?id=Z2sOAAAAYAAJ

Pan Closets

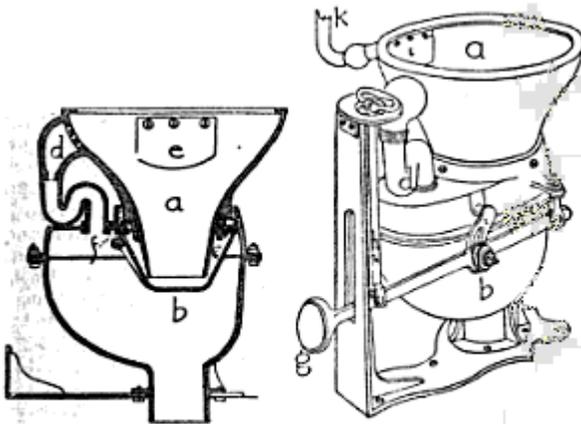


Fig. 95.—Section. Tylee's Pan-Closet. Fig. 96.—Perspective.
 a, Bowl. b, Receiver. c, Pan. d, Overflow. e, Pan. f, Leather seat for pan.
 g, Weighted lever. h, Hand-pull. i, Slotted crank. k, Supply-pipe. m, Set-screws.

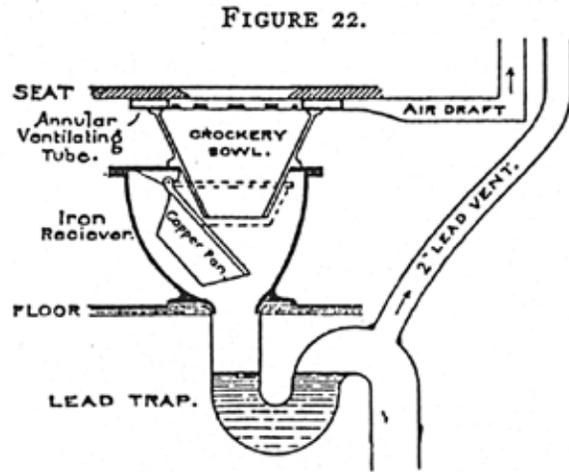


FIGURE 22.
 ORDINARY PAN WATER-CLOSET.

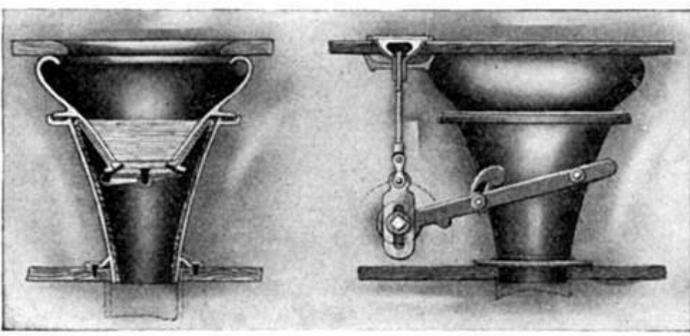
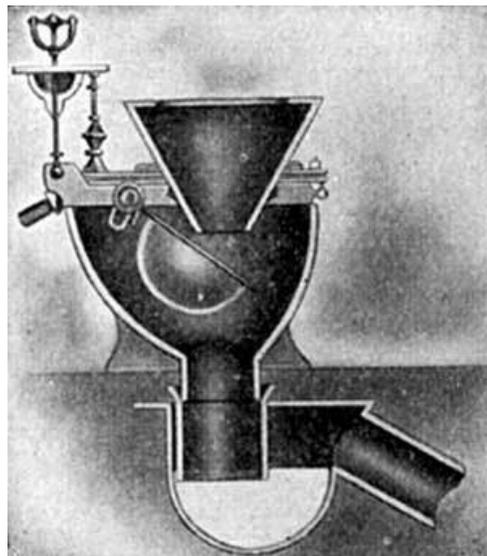


FIG. 2.—Pan closet (American).



- Early versions of mechanical water closets

Links:

1. <http://chestofbooks.com/home-improvement/construction/plumbing/Elements-of-Plumbing/Chapter-I-Plumbing-Fixtures-And-Trade.html>
2. <http://www.sewerhistory.org/grfx/privbath/toilet1b.htm>
3. http://books.google.com/books?id=p5FMAAAAYAAJ&pg=PA195&lpg=PA195&dq=Pan+closets&source=bl&ots=Tjgt2haLbp&sig=nPd8kYJcPMip5DKXZceijUYhZ0&hl=en&sa=X&ei=M4YcT_DINMWFiALop4jBCA&ved=0CGQQ6AEwAw#v=onepage&q=Pan%20closets&f=false

Chamber Pots



Features:

- Used mostly as urinal in bed chambers at night
- Provides the comfort of not going out to latrines in chilly nights etc.
- Highly decorated and considers works of art in Victorian Era

Links:

1. <http://sulabhtoiletmuseum.org/mus01.htm>
2. <http://toilet-guru.com/churchill.php>
3. <http://www.wrensonline.com/blog/st-louis-missouri-chatillon-demenil-mansion/>

1923 Chair-style Toilets



Links:

1. <http://www.sulabhtoiletmuseum.org/mus03.htm>

Latrines

Elephant Toilet



Features:

- Pit design with overlaying concrete slab cover
- Elephant ear shaped footrests for squatting positioning
- Squatting position and hole size separates urine and excreta
- Concrete slab can be relocated and reused when the pit fills

Designed by: PumpAid.org

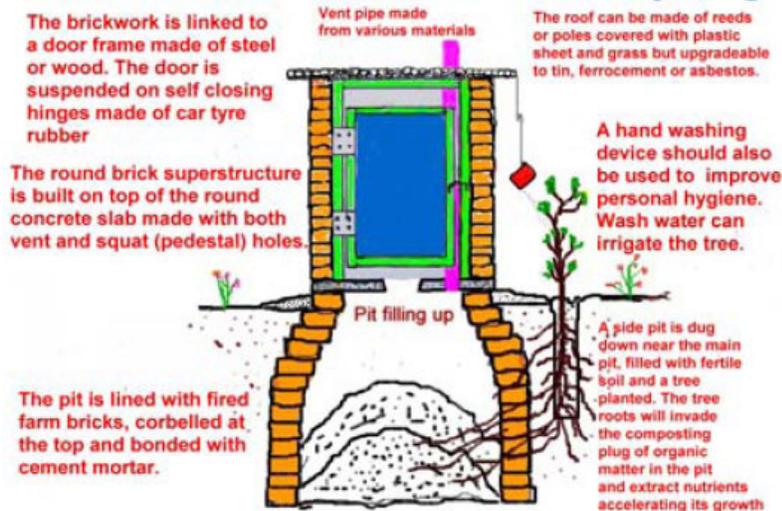
Links:

1. <http://pumpaid.org/>
2. www.youtube.com/watch?v=m1n3O3TEZ0k

Blair VIP



A Blair VIP toilet with nutrient recycling



Features:

- Pit Latrines with Concrete Slab
- Pit lined with brick

Designed by: EcoSanRes

Links:

1. <http://www.ecosanres.org/index.htm>

2. [http://www.ecosanres.org/pdf files/Upgradeable Blair VIP Builders Simple Manual Morgan Sept 2011.pdf](http://www.ecosanres.org/pdf_files/Upgradeable%20Blair%20VIP%20Builders%20Simple%20Manual%20Morgan%20Sept%202011.pdf)

Camping, Outdoor, Mobile Toilets

Luggable Loo



Size: Length: 13.50 Width: 13.00 Height: 15.56; 5-gallon capacity

Weight: 3.00 lb

Features:

- **Bucket style with a traditional snap-on, hinged seat and cover**
- **Seat and cover replaceable**
- **Compatible with standard Double Doodie bag from Reliance Products**

Cost: \$37.49 (relianceproducts.com)

Designed/Manufactured by: Reliance Products

Links:

1. <http://www.amazon.com/Reliance-Products-Luggable-Portable-Gallon/dp/B000FIAPXO>
2. <http://relianceproducts.com/products/sanitation/96.html>

Tri To-Go Portable Toilet and Chair



Size: Length: 4.50 Width: 4.50 Height: 24.00

Weight: 4.00lbs

Features:

- **Lightweight and folds into carrying bag**
- **Able to be strapped onto backpacks**
- **Support up to 300lbs**

Cost: \$29.99

Designed/Manufactured by: Reliance Products

Links:

1. http://www.amazon.com/Reliance-Products-Portable-Toilet-Chair/dp/B00477ZUJS/ref=pd_sbs_sg_7

2. <http://www.relianceproducts.com/products/sanitation/224.html>

GO Anywhere Portable Toilet/The PETT



Weight: 7.00lbs

Features:

- **Folds into a carrying case design**
- **Support up to 500lbs**

Cost: \$99.50

Designed/Manufactured by: Cleanwaste

Links:

1. <http://www.cleanwaste.com/go-anywhere-portable-toilet>

Baby Toilet Teak Chair



Features:

- **Wooden Design**

Links:

1. [http://www.alibaba.com/product-free/223687040/Baby Toilet Teak Chair.html](http://www.alibaba.com/product-free/223687040/Baby_Toilet_Teak_Chair.html)

Tote-able Toilet Seat and Lid



Features:

- A toilet seat and lid that pots onto the top of standard 5 gallon buckets
- Can add enzyme packets to accelerate the degradable process

Cost: \$8.95

Designed/Manufactured by: Tote-able Toilet

Links:

1. <http://beprepared.com/product.asp?pn=ZK%20X115&sid=AMAZONADS>

Little John Portable Urinal



Features:

- Hand-held
- Spill-proof cap

Cost: \$12.99

Designed/Manufactured by: Little John

Links:

1. http://www.cabelas.com/product/Camping/Camp-Essentials/Showers-Toilets-Accessories%7C/pc/104795280/c/104709780/sc/104569380/Little-John-Portable-Urinal/746951.uts?destination=%2Fcatalog%2Fbrowse%2Fcamping-camp-essentials-showers-toilets-accessories%2F_%2FN-1100689&WTz.l=SEO%3Bcat104569380

Hassock Portable Lightweight Self-contained Toilet



Size: Length: 14.70" Width: 14.70" Height: 14.00"

Weight: 5.00lbs

Features:

- **Contour seats for comfort**
- **Removable inner bucket for disposal**
- **Inner splash cover and toilet paper holder**

Designed/Manufactured by: Reliance Products

Cost: \$34.99

Links:

1. <http://www.amazon.com/Reliance-Products-Portable-Lightweight-Self-Contained/dp/B000FIDZLI>
2. <http://relianceproducts.com/products/sanitation/92.html>

GottaGo Toilet



Features:

- **Lightweight and Portable**
- **Holds up to 250 lbs**

Designed/Manufactured by: Global

Cost: \$29.99

Links:

1. http://www.amazon.com/Global-Sanitation-Solutions-GottaGo-Biodegradable/dp/B002R060U0/ref=pd_sbs_sg_35

Shit Box



Size: 35cm x 35cm x 35cm

Features:

- **Lightweight and Portable**

Designed/Manufactured by: The Brown Corporation

Cost: \$18.99

Links:

1. <http://www.thebrowncorporation.com/products/bog-standard>

Uribag Portable Urinal



Features:

- Compact Storage Size
- Heavy Duty Collection Bag
- Snap-lock seal
- 1.25 quart capacity

Cost: \$39.99

Links:

1. <http://www.discountxl.com/35-551.htm>

Camping Commode



Features:

- Sturdy, foldable frame
- Plastic molded seat
- Lightweight and portable

Designed/Manufactured by: Rothco

Cost: \$20

Links:

1. <http://www.amazon.com/dp/B000CN9CN6%3FSubscriptionId%3D1A2KCDTR79Y00KXFPW02%26tag%3Dcampingtoiletreviews-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3DB000CN9CN6>
2. <http://thedisasterkits.com/portable-emergency-camp-toilet/>

Flushable Loo 400



Weight: 11.60 lbs. Dimensions: Length: 15.00 Width: 15.00 Height: 14.38

Features:

- **Holding tank with easy access**
- **12L freshwater tank and 15L holding tank**
- **Uses push pump to release water and flush**

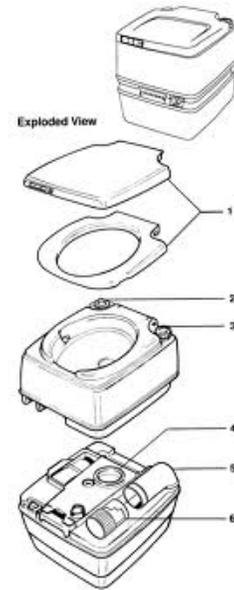
Designed/Manufactured by: Reliance Products

Cost: \$109.99

Links:

1. <http://www.amazon.com/Reliance-Products-Flushable-Loo-Toilet/dp/B00111ZW6Y>
2. <http://www.relianceproducts.com/products/sanitation/207.html>

Thetford Porta Potti 465 Electric



Weight: 12.5 lbs. **Dimensions:** 16 1/2"L x 15"W x 16 1/2"H

Features:

- **Battery-powered flush**
- **Removable seat**
- **Sealed valve for odor control**
- **Easy to read Level-indicators that tell you when to empty**
- **Locking lids to prevent spills**

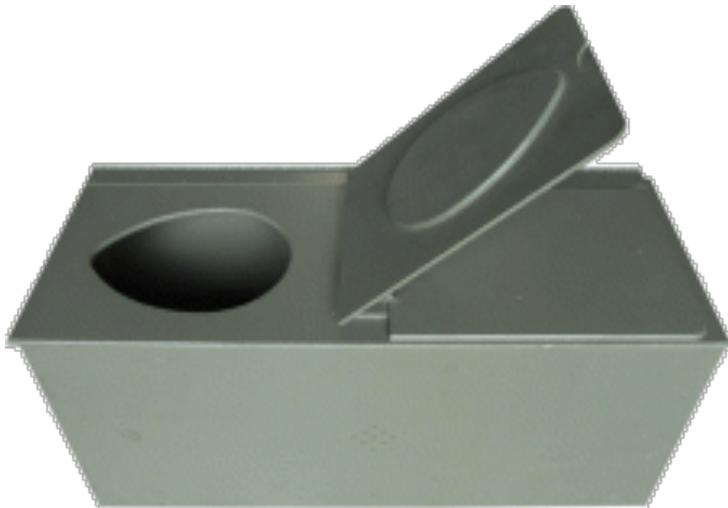
Designed/Manufactured by: Thetford Corp

Cost: \$200

Links:

1. <http://www.campingworld.com/shopping/item/Thetford-Porta-Potti-465-Electric/35773/>
2. <http://www.ps2netdrivers.net/135/thetford.porta.potti/>

U.S. G.I. Portable Latrine



Dimensions: 41" x 19" x 17"

Retail Price: \$125

Features:

- **2 back to back seats per unit**
- **Collapsible for transport**
- **Hinged Lids**

1. <http://store.colemans.com/cart/us-gi-portable-latrine-p-2624.html>

Composting Toilets

Sun-Mar Composting Waterless Toilet



Features:

- Self-contained waterless composting toilets
- Can add microbe mix to accelerate composting
- Electric ventilation unit to promote aerobic bacteria growth and keep odors down

Price: \$1659

Links:

1. <http://www.sun-mar.com/prod.html>
2. <https://www.thenaturalhome.com/compost.html>

Ekolet VU Composting Toilet



Features:

- Rotating 4-compartment composting tank
- Air circulation keeps odor down
- Soil or compost sprinkled over excreta
- Liquid is filtered before going into evaporation pool

Price: Euro 1490

Links:

1. <http://www.ekolet.com/?lang=eng&m1=4&m2=6>

BIOLAN Separating Dry Toilet



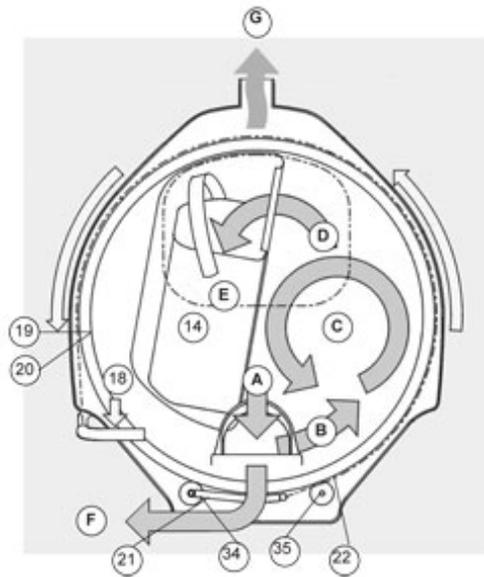
Features:

- **Ventilation System**
- **Plastic design for easy cleaning**
- **Two separate inner receptacles**

Links:

1. http://www.biolan.fi/english/default4.asp?active_page_id=815

BIOLAN Naturum



Features:

- Separates liquid from solid waste
- Can be equipped with a fan (electrically driven)
- The compost receptacle is lightweight and neat to empty

Links:

1. http://www.biolan.fi/english/default4.asp?active_page_id=818

BIOLAN Composting Toilet



Features:

- Seep tank for liquids
- Thermal seats

Links:

1. http://www.biolan.fi/english/default4.asp?active_page_id=816

Loveable Loo



The finished loo is approximately 18" wide, 21" long and a little higher than the toilet receptacle, approximately 17". The toilet itself: 3/4" plywood base (polyurethane finish if selected), glued and screwed together, hinged 3/4" plywood top (with polyurethane finish if selected), with an oak style, wood core toilet seat. The toilet can be additionally painted or varnished, if desired, but can also be used as is.

Price: \$225.00 (€195.75)

<http://humanurehandbook.com/store/LOVEABLE-LOO-Eco-Toilet.html>

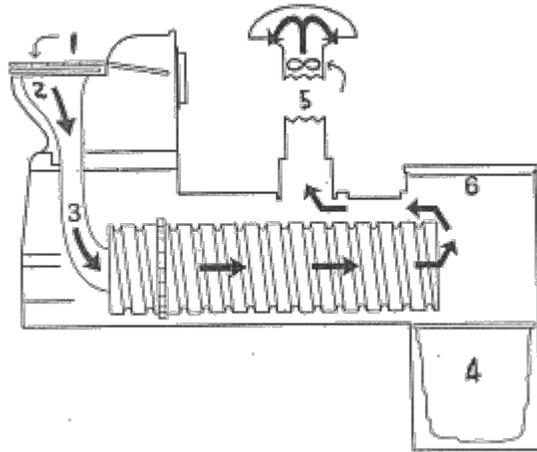
C Head Composting Toilet



<http://www.c-head.com/index.html>

Basic Marine/Camper Model
Complete C-Head System
White Plastic Veneer
\$499.00

ETS: Ecosan Toilet System



Features:

- **Completely closed system**
- **No sewage pipe network and sewage treatment plants required**
- **No effluent seepage into underground water resources**

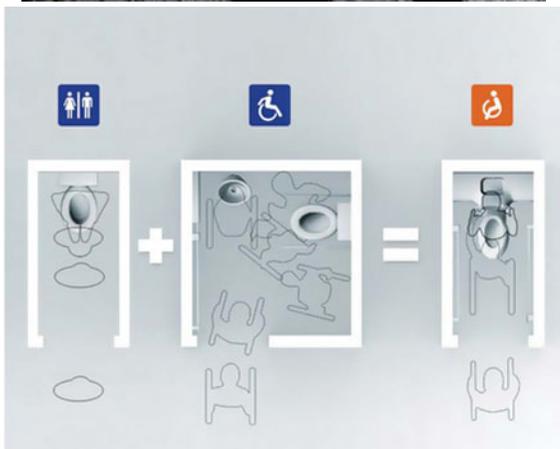
Designed by: EcoSan Co

Links:

1. <http://www.youtube.com/watch?v=rzqPvQNskVQ>
2. <http://www.ecosan.co.za/>

Conceptual, High-end, Special Toilets

Universal Toilet



Features:

- Handles for individuals with disabilities
- Can be used by general populace
- Requires less stall space than a traditional disabled toilet design

Designed by: Changduk Kim and Youngki Hong

Links:

1. <http://openonia.com/the-universal-toilet-design-for-disable-people.html>

HT4 Modular Toilet



Features:

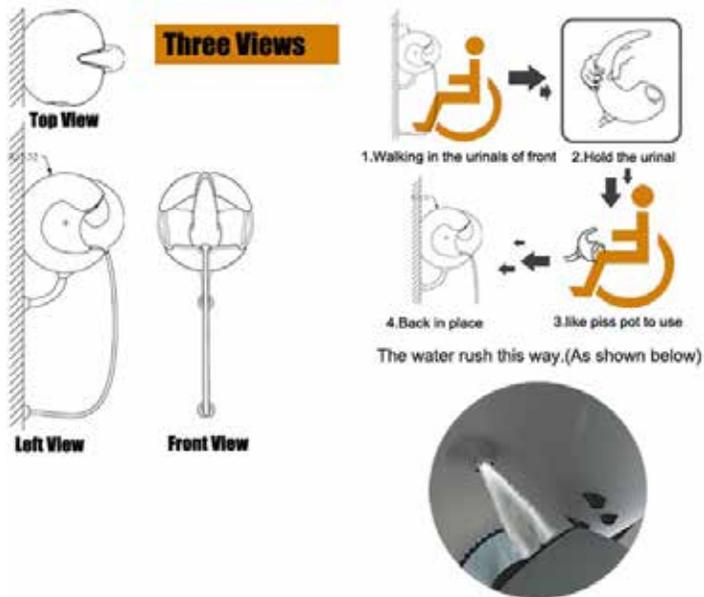
- For people with disabilities or elderly
- Ergonomic back and seat for resting
- Arms for balance and support

Designed by: Cesar Estrada

Links:

1. <http://design.fr/product-design/ht4-modular-toilet-bends-to-the-needs-of-special-users/>

Movable Urinal



Features:

- Allows wheelchair users to urinate without leaving the wheelchair

Designed by: Fuming Wu

Links:

<http://www.yankodesign.com/2011/08/31/yes-sit-and-p/>

Toilet Seat Wheelchair



Features:

- For people with disabilities or elderly

Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Bed with Toilet



Features:

- For people with disabilities or elderly
- Built-in dry toilet facility where waste is electronically sealed in a waste bag

Designer: Enda Thomas

Links:

1. <http://www.yankodesign.com/2010/10/28/bed-with-toilet/>

Cell Tankless Toilet



Features:

- Doesn't require a tank of flush water
- Requires motor and electricity

Designed by: Sung Hoon Mun

Links:

1. <http://forum.xcitefun.net/modern-bathroom-the-cell-tankless-toilet-t16433.html>
2. <http://www.yankodesign.com/2007/01/24/cell-the-tankless-toilet-by-sung-hoon-mun/>

Two-in-one Turn-around Loo



Features:

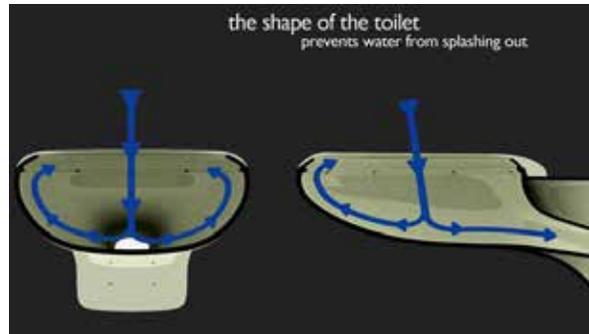
- Converts between urinal and toilet
- Self-cleaning using steam and UV

Designed by: Young San Eun

Links:

1. <http://besthomeinteriordesign.com/bathroom/modern-toilets-young-san-eun-toilet-urinal.html>
2. <http://www.yankodesign.com/2009/06/04/two-in-one-turn-around-loo/>

Toilet 2.0



Features:

- **Shape of bowl minimizes splashing**
- **High pressure cleaning**
- **Integrated with other bathroom features for water efficiency**

Designed by: Dave Hakken

Links:

1. <http://www.yankodesign.com/2011/07/28/toilet-2-0/>

All-in-one Loo



Features:

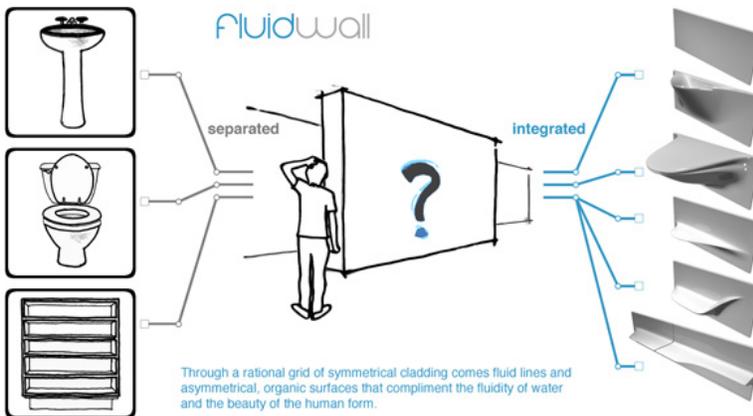
- Integrates toilet bowl, sink, sink and vanity table into one system
- Option to store water from hand-washing to use for toilet flushing

Designed by: Dang Jingwei

Links:

1. <http://www.yankodesign.com/2010/01/20/all-in-one-loo-with-a-reason/>

Fluid Wall



The purpose of bathrooms is to support the human need of health and hygiene. In addition to maintaining a higher level of cleanliness, Fluid Wall highlights human movement through spatial elegance and functional simplicity. By pulling bathroom components out of the space and integrating them with wall cladding, Fluid Wall acts as a backdrop that celebrates the true focal point of the space, water becomes the featured element, and the ancient ritual of bathing is expressed. This focal point is intentionally left undesignated in the project concept because Fluid Wall is designed to highlight it. Fluid Wall provides the opportunity for an alternative spatial design that offers tranquility, peace, health, comfort and ultimately an enhanced user experience.

Each panel has identical hidden mounting points for easy installation on an integrated mounting system. Panels may be arranged in any configuration. The room may include as few or as many panels as desired.

Features:

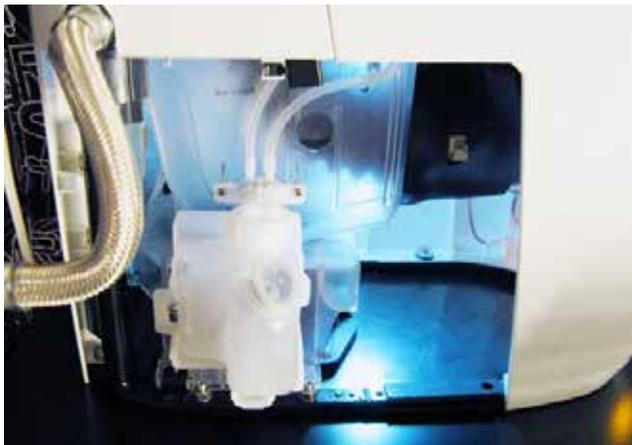
- **Modulating all the fixtures and fitting on one wall**
- **Integrated system**

Designed by: Jay M. Stevens

Links:

1. <http://www.yankodesign.com/2012/03/09/bathroom-on-a-wall/>

Panasonic Self-cleaning Toilet



Features:

- Water and energy saving features
- Made of organic glass
- Sensor to automatically open toilet seat when user approaches

Designed by: Naoto Fukasawa & Panasonic Electronic Works

Links:

1. <http://www.designboom.com/weblog/cat/8/view/10024/naoto-fukasawa-toilet-for-panasonic-electronic-works.html>

Bluena



Features:

- Combines WC bowl and bidet

Designed by: Vasil Velchev

Links:

<http://www.yankodesign.com/2010/01/05/blue-blue-bidet/>

W+W: Toilet with Washbasin



Features:

- Wastewater from washbasin can be used to fill toilet cistern

Designed by: Gabriele and Oscar Buratti

Links:

1. <http://www.dezeen.com/2010/03/16/ww-by-gabriele-and-oscar-buratti-with-roca-innovation-lab/#more-69983>
2. <http://walyou.com/toilet-designs-concepts-geeks/>

Tandem Urinal - Sink

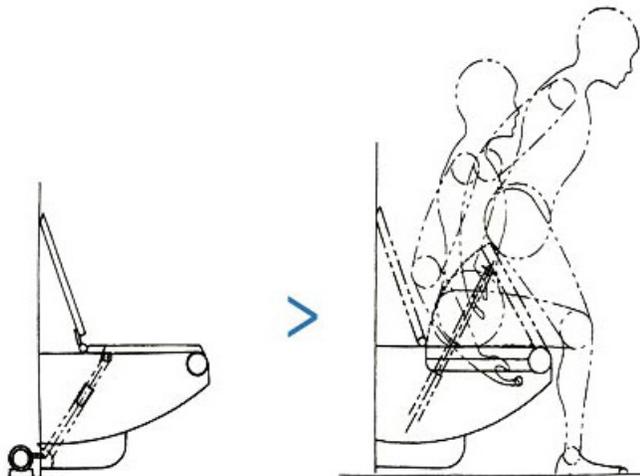


Designed by: Kaspars Jursons

Links:

<http://www.yankodesign.com/2011/04/14/ending-the-urinal-debate/>

Stand-up Toilet



Features:

- Allows usage from a standing position

Designer: Prof Zhu Zhongyan & Zhou Jingwen

Links:

1. <http://www.yankodesign.com/2012/03/07/stand-up-toilet/>

Codependents' Commode



Features:

- A single flush cleans both toilets
- Inner partition protects privacy

Price: 1400

Links:

1. http://www.thisoldhouse.com/toh/photos/0,,20162346_20373749,00.html

Freedom



Features:

- **Asymmetric artistic designs**

Designed by: Ross Lovegrove

Links:

1. <http://www.dezeen.com/2009/04/06/freedom-by-ross-lovegrove/>

Phillips Microbial Filtering Squatting Toilet



Features:

- Diverts excrete to a methane digester
- Uses sand, ceramic, and charcoal to filter effluent and support plant growth

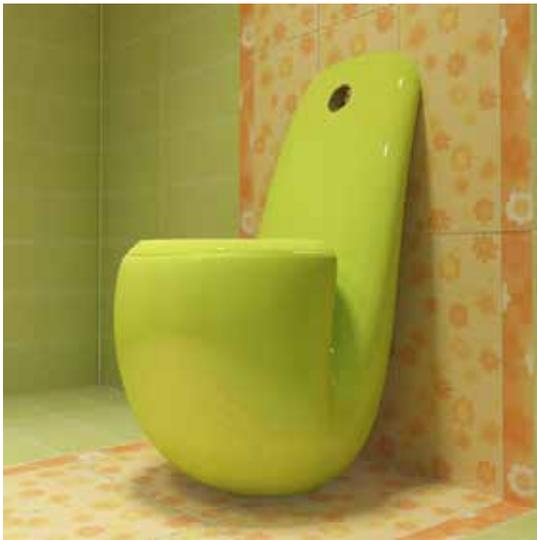
Designed by: Phillips

Links:

1. http://www.design.philips.com/about/design/designportfolio/design_futures/design_probes/projects/microbial_home/filtering_squatting_toilet.page

2. <http://www.yankodesign.com/2011/10/21/the-microbial-home/>

Mrs Hudson



Features:

- Shape based on “modified water drop”

Designed by: 2-B-2

Links:

1. <http://www.dezeen.com/2008/10/10/mrs-hudson-by-b-2-b/>

numi



Features:

- **Motion Activated Lid and Seat**
- **Advanced Bidet Functionality**
- **Integrated Air Dryer**
- **Deodorizer**
- **Heated Seat**
- **Feet Warming**
- **Illuminating Panels**
- **Music**

Designed by: Kohler

Price: \$6400

Links:

1. <http://kohler.com/numi/>

2. <http://www.wired.com/gadgetlab/2011/05/luxurious-toilet-cossets-your-canal/>

Natura Customized-flushing toilet



Features:

- Different flushing volumes for male urination, female urination, & defecation
- Stores toilet paper from partial flushes in a hidden compartment which is flushed during a defecation flush

Designed by: Jose Genovés

Links:

1. <http://www.yankodesign.com/2011/06/06/customize-your-flush/>

Ergonomic Knee-mounting Toilet



Features:

- **No butt-to-seat contact**
- **Ergonomic & padded knee-mounting design**

Designed by: Nelson Ayala & Ana Maria Gordillo

Links:

1. <http://www.designbuzz.com/entry/nelson-s-concept-toilet-helps-you-physically-all-the-while/>

Bench Toilet



Features:

- Sliding wood cover to hide toilet when not in use
- Also serves as a bench and storage unit

Designed by: Troy Adams

Manufactured by: Julien

Price: \$11475

Links:

1. <http://morewaystowastetime.blogspot.com/2007/10/cool-stuff-bench-toilet.html>

High-tech Toilet Seat Cover



Features:

- Seat cover is automatically raised and lowered

Manufactured by: Pressalit

Links:

1. <http://www.hometone.com/entry/autoclose-hi-tech-toilet-seat-cover/>
2. <http://walyou.com/hi-tech-toilet/>

Waterless Cone Urinal



Features:

- Atheistically pleasing anti-splashing cone design

Manufactured by: Nicholas Paterson

Links:

<http://www.yankodesign.com/2007/08/13/waterless-urinal-also-eliminates-splashing/>

Mister Miser Folding Urinal



Features:

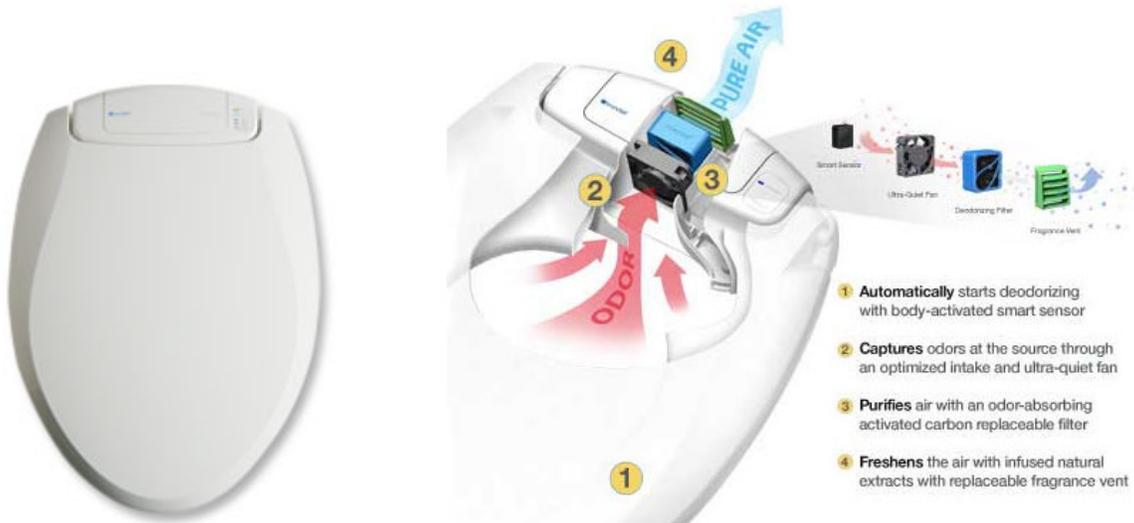
- Space-saving to a new level

Manufactured by: Mister Miser

Links:

1. http://www.thisoldhouse.com/toh/photos/0,,20162346_20373059,00.html

Breeza Toilet Seat



Features:

- Deodorizing toilet seat with fragrance cartridges and fan

Designed by: Brondell

Links:

1. <http://brondell.com/products/Breeza.php>

Toilet Seat Weight Tracking Meter



Features:

- Toilet Seat with digital scale

Designed by: Haikun Deng

Links:

1. <http://www.hometone.com/entry/digital-toilet-seat-measures-your-weight/>

Pear



Designed by: Patricia Urquiola

Features:

- **Wall-mounted design**

Links:

1. <http://www.dezeen.com/2007/11/27/pear-by-patricia-urquiola-for-agape/>

Toto CT708EV-01 Commercial Flushometer Toilet



Manufactured by: Toto

Retail Price: \$238

Features:

- **Cone-shaped bowl**
- **Siphon jet flushing**
- **Hides the plumbing and the water tank**
- **Intergrated with low-flush valves**
- **“Less seat” – space saving**

Links:

1. http://www.efaucets.com/detail.asp?Product_ID=CT708EV-01&ca=gpa&gclid=CMC2xfWqya0CFYUZQgoduU4Biw#

2. <http://www.totousa.com/Green/Products/EcoPowerFlushValves.aspx>

Toto Neorest 600



Manufactured by: Toto

Retail Price: \$5,678

Features:

- **Flushing system that doesn't need refilling of a tank**
- **Ion barrier glazing for cleaning during flushes**
- **Integrated washing, drying, and deodorizing system**
- **Automatic lid opening, closing and flushing system**
- **Concealed trapway for cleaning and maintenance**

Links:

1. <http://www.totousa.com/ProductDetail.aspx?ProductId=67>

2. <http://www.terrylove.com/forums/showthread.php?21499-TOTO-Neorest-600-product-review-MS990CGR>

Toto Intelligent Toilet II



Manufactured by: Toto

Retail Price: \$6,100

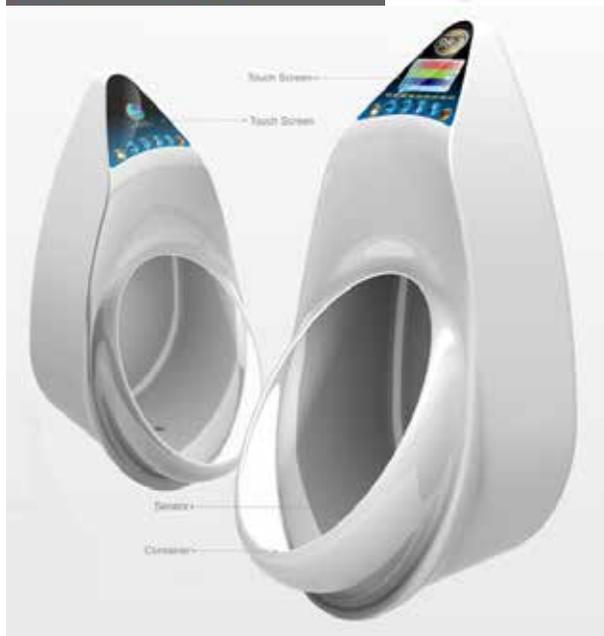
Features:

- **Seat with weigh scale**
- **Takes women's urine temperature and hormone readings**
- **Measures: blood pressure, urine sugar analysis, BMI, weight**
- **Sends data to computer via Wi-Fi**

Links:

1. <http://www.hometone.com/entry/toto-intelligence-toilet-ii-helps-women-stay-healthy/>

e-Urinal



Features:

- Tells you everything you want to know about your pee

Links:

<http://www.yankodesign.com/2012/01/05/whats-your-pee-telling-you/>

Urilift Toilet



Features:

- Public toilet that is stored underground when not in operation
- Designed to address the problem of open urination

Links:

1. <http://www.urilift.com/news.php>

Space Toilet

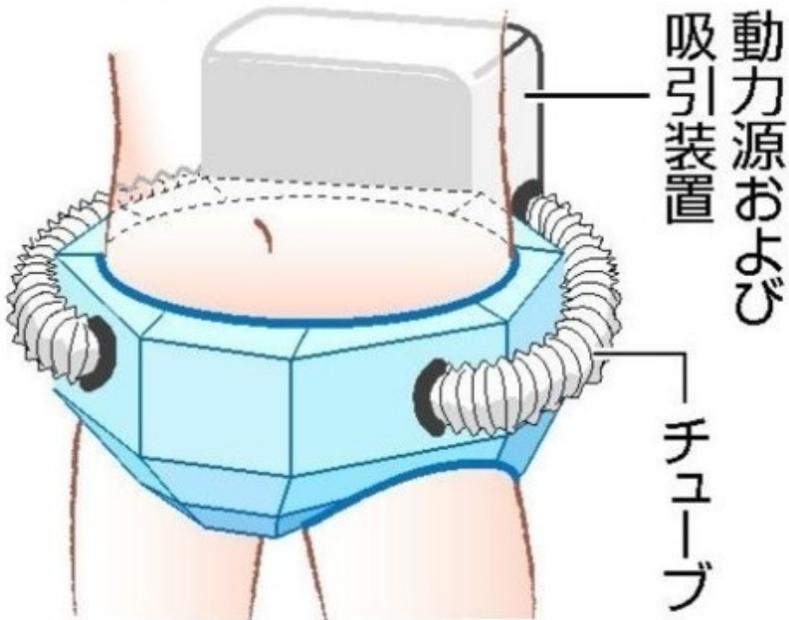


Links:

1. http://en.wikipedia.org/wiki/Space_toilet
2. <http://www.funvblog.com/2010/06/17/funny-space-toilet/>

Japanese Astronaut Suit with Toilet

宇宙トイレのイメージ



Features:

- Chutes with suction device in the rear
- Automatic washer and dryer

Links:

1. <http://en.ahabaranews.com/21156/misc/japan-s-next-gen-space-toilet-your-personal-space-washlet>

Hybrid Toilet and Washing Machine



Links:

1. <http://www.popsci.com/gear-%2526-gadgets/article/2008-09/wacky-hybrid-appliances>

Toilets in Projects or Ventures

x-runner Squatting Platform and Tank



Features:

- **Mobile toilets with separable squatting platform and tank**
- **Back-end collection system for tank**
- **Mechanical siphon seal for odor control**

Links:

1. <http://xrunners.wordpress.com/>
2. <http://www.xrunner-venture.com/>

Uniloo (CleanTeam Ghana)



TANK REMOVAL



Features:

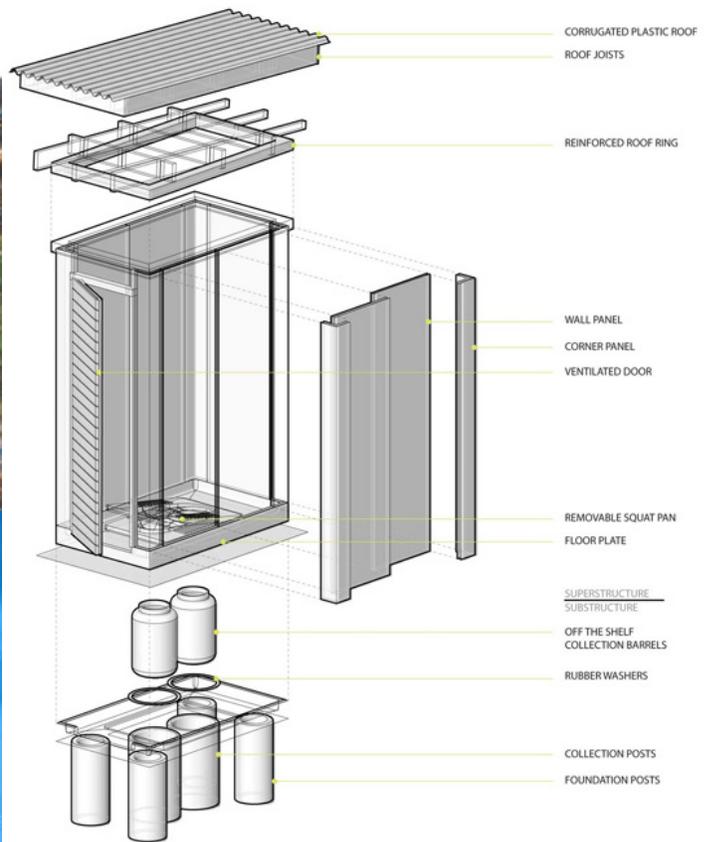
- No moving parts
- Collection service model
- Urine-diverting (piped out with tube)
- Separable waste tank that is modular and stacks
- Chemical in toilet to control odor

Designed by: Unilever, Water and Sanitation for the Urban Poor (WSUP), IDEO

Links:

1. <http://www.cleanteamtoilets.com>
2. <http://ideo.org/projects/in-home-sanitation-kumasi-ghana/completed>
3. <http://ghanasan.wordpress.com/>
4. http://ghanasan.files.wordpress.com/2011/05/ghanasan_publicshare.pdf

Fresh Life Toilet



Sanergy | Unit Design

Features:

- **Pre-fabricated components for rapid on-site installation**
- **Rounded corners for cleaning**
- **Clear roof for light**

Designed by: Sanergy

Links:

1. <http://saner.gy/>

MoSan Toilet



Features:

- Deep-Drawn (Vacuum-formed) HDPE Prototype with 6mm plate thickness can support 130 kg
- Three components: Base, Seat, Lid

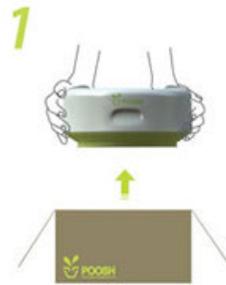
Designed by: Mona Mijthab

Links:

<http://mosan-bangladesh.tumblr.com/>

<http://www.susana.org/lang-en/library?view=ccbctypeitem&type=2&id=1313>

POOSH



Unpack the Poosh



Attach the Poosh Bag to the seat



Place Poosh and bag on bucket



Sit on Poosh to use it and the lid opens automatically



The lid is opened as a user sits down and automatically spring closed when the user is finished



When the bucket is full of faeces, lift Poosh, and the Poosh Bag automatically seals with elastic



Bury PooshBag underground to allow it to biodegrade



After 2 weeks, the waste will be converted into fertilizer.



Finally use the fertilizer to add nutriance to crops

Features:

- a toilet seat with a rubber resting surface that fits on a wide variety of buckets, including the common five-gallon bucket standard
- a biodegradable bag, which collects the waste and includes some chemicals that speed up the decomposition of the human waste for use as fertilizer
- automatic sealing when the bag is full and the seat is removed.



Designed by: Korean Advanced Institute of Science and Technology

Links:

1. <http://www.yankodesign.com/2010/01/08/poop-bucket-with-a-mission/>
2. <http://washtech.wordpress.com/2010/01/11/poosh-bucket-mounted-ecosan-toilet/>
3. <http://www.livbit.com/article/2010/09/01/poosh-a-boon-for-those-who-cannot-afford-a-proper-toilet-system/>

Peepoo



Features:

- **Single use bag for pee and poop**
- **Odor free for 24 hours**
- **Thin Gauze inside the bag prevent contact with excrement**
- **14 x 38 cm**

Designed by: Peepople

Links:

1. <http://www.peepeople.com/showpage.php?page=3> 8

Components and Adapters

Go-Girl Urinal Adapter



Features:

- **Silicone, flexible**

<http://www.go-girl.com/>

ECOvita



www.ecovita.net

179\$

ecoSencia Urine Diverting Seats



Features:

- Separates urine and excreta waste streams

Links:

1. http://www.ecosencia.com/catalogo.php?pageNum_productos=0&totalRows_productos=20

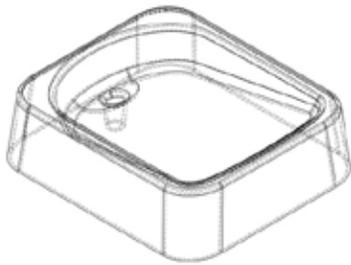
Nature's Platform



<http://www.naturesplatform.com/index.html>

- Supports up to 300 Pounds
- Can be set up or removed instantly (so no one is inconvenienced)
- Is easy to clean
- Puts no stress on the toilet
- Folds up to a width of 3 inches
- Has a comfortable non-slip surface, angled for proper balance
- Fits all regular toilets
- Has been endorsed by Yoga teachers and medical doctors
- Galvanized steel encased in PVC plastic
- Awarded U.S. Patent No. 6,256,800 Price: \$144 plus \$17 Shipping (48 states)

EZPZ Urine Diverting Units



Features:

- Urine diverting add-ons to squat toilets
- Collects urine for agricultural uses for subsistence farmers in Cambodia

Links:

1. <http://extreme.stanford.edu/impact/ezpz.html>
2. <http://ezpzextreme.wordpress.com/>

Heavy Duty Commode



Features:

- **Sturdy, adjustable frame**
- **Designed for people with clinical needs**
- **850lb rated capacity**

Cost: \$499.99

Links:

1. <http://www.discountxl.com/34-421.htm>

Squatty Potty



Features:

- Squatting platform enables squatting position on pedestal toilet
- Platform slides under toilet when not in use
- Different materials available

Cost: \$40-\$75

Links:

1. <http://www.squattypotty.com/>
2. <http://blog.paleohacks.com/healthy-colon-happy-life-a-squatty-potty-review/>
3. <http://sausedo.net/2012/10/04/squatty-potty-the-revolutionary-new-way-to-shit/>

Artistic, Playful, Sometimes Over-the-Top

On Target



Features:

- Turns potty training into a game

Designer: Marcel Neundorfer

Links:

<http://www.yankodesign.com/2006/03/21/on-target-by-marcel-neundorfer/>

Love Toilet Seat for Couple



If we don't need to work sometimes, there would be enough time for us to stop on the toilet seat forever. The love seat toilet let us enjoy every moment together. We could read, listen to music or have some smiles at the same time!
The most wonderful thing would be we could even go pee together!

Fig is the most lazy and unloose animal we both love, so the first love seat toilet would be in a form of two attached piggy! If you like, it could create any style you want!
Let's change our daily life and let the toilet seat full of love!



Designer: Amigo Zhou

Links:

<http://www.syahdiar.org/love-seat-toilet-for-two-people-by-amigo-zhou.html>

Nature's Call



Designer: Clark Sorensen

Links:

<http://www.yeoooo.com/2009/01/02/creative-and-bizzare-toilets-19-pics/>

Swarovski-Encrusted Toilet



Price: \$75000/\$128390

Links:

1. <http://www.trendhunter.com/trends/swarovski-toilet>
2. <http://www.homedit.com/swarovski-crystals-toilet-design/>

Gold 24 Carat Toilet



Links:

1. <http://www.smashinglists.com/15-cool-toilet-designs/>

Guitar Toilet Pot



Features:

- Toilet Pot with guitar shaped cover

Designed by: fr1zz

Links:

1. <http://walyou.com/guitar-toilet-pot/>

Candy-coated Toilet



Links: <http://www.smashinglists.com/15-cool-toilet-designs/>

Toilet Paper Toilet



Links:

1. <http://allfromweb.net/weird-toilet-seats-design>

Balloon Toilet



Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Toilet GT 2



Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Toilet with Dual-Exhaust



Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Toilets with a bite



Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

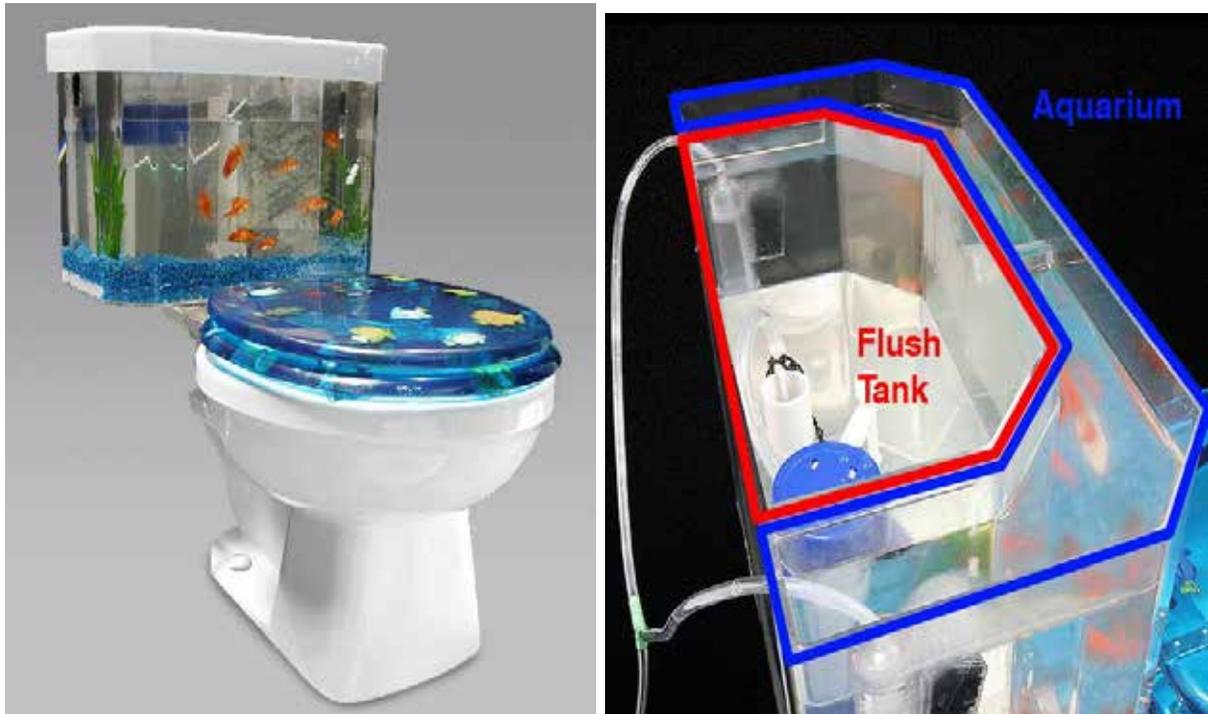
Ski Jump Toilet



Links:

<http://crazy-pla.net/ski-jump-toilet/>

Fish-tank Toilet



Price: \$300

Features:

- **Provides companionship to help you relax while you do business**
- **Separated flush tank and aquarium so fish don't get flushed away**

Links:

1. <http://walyou.com/fish-tank-toilet-aquarium/>

Party Toilet



Features:

- **Cups not included**

Links:

1. <http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Admiral Ackbar Toilet



© Brendon Phillips

Features:

- Known for his "It's a trap" line in Star Wars

Designed by: bmansnuggles

Links:

<http://walyou.com/admiral-ackbar-toilet/>

Storm Trooper Urinal



Links:

<http://www.yeeeeee.com/2009/01/02/creative-and-bizzare-toilets-19-pics/>

iToilet



Links:

<http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Band Urinals



Links:

1. <http://funnylimca.blogspot.com/search/label/Funny%20Toilets>

Urinals on Trees



Links:

http://www.odditieszone.com/15-cool-toilet-designs/?utm_source=wahoha.com&utm_medium=referral&utm_campaign=wahoha

Briefcase Toilet



Features:

- Portable toilet disguised as briefcase
- Comes with toilet paper dispenser

Links:

1. <http://www.trendhunter.com/trends/gotta-go-briefcase>
2. <http://walyou.com/toilet-designs-concepts-geeks/>

Wired Toilet



Links:

1. <http://lifestylezer.com/toilet-design/unique-toilet-design.htm/attachment/wired-toilet>

Toilet on Wheels



Links:

<http://curiousphotos.blogspot.com/2009/06/50-unusual-weird-toilet-designs.html>

Port-a-potti on Wheels



Links:

1. <http://www.sewerhistory.org/images/pr/pr02.jpg>