INTEGRATED TOILET AND BIDET SYSTEM

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ABSTRACT
An integrated bowel movement stimulator, toilet and bidet system for encouraging and promoting elimination, flushing away waste and cleaning a user's private parts upon completion of toilet use. Adjustable controls are provided for customizing both water temperature and water pressure for optimal effectiveness and user comfort. Advantageously, the present invention incorporates multiple functions including a bowel movement stimulator, toilet and bidet into one easy-to-use unit.
INTEGRATED TOILET AND BIDET SYSTEM

BACKGROUND OF THE INVENTION

[0001] 1. Technical Field

[0002] The present invention relates generally to toilets, and more particularly to a toilet having enhanced hygienic capabilities including an integrated bowel stimulator and bidet feature for encouraging and promoting elimination.

[0003] 2. Description of Related Art

[0004] The use of toilets and bidets is known. Although a number of systems have been developed including bidet systems and toilets adapted for use as a bidet, these have frequently involved either add-on devices or were otherwise limited in utility, design and function. Despite fulfilling their respective particular objectives and requirements, the prior art fails short of disclosing a new hygienic integrated bowel stimulator, toilet and bidet for both encouraging and maximizing ease of elimination as well as cleaning a user’s private parts with optimal comfort and convenience.

[0005] Millions of people suffer from constipation, hemorrhoids and varicose veins, as well as potentially life-threatening colon cancers. Accordingly, it can be appreciated that a need exists for providing a new and improved integrated toilet and bidet for both promoting elimination and cleaning a user’s private parts according to the comfort level of each user.

SUMMARY OF THE INVENTION

[0006] The present invention is directed to an improved integrated toilet and bidet system for encouraging and promoting human waste elimination as well as cleaning a user’s private parts upon completion of toilet use. Advantageously, the present invention incorporates multiple functions including a bowel movement instigator, toilet and bidet into one easy-to-use unit. Adjustable controls are provided for customizing both water temperature and water pressure for optimal user comfort.

[0007] According to an aspect of the present invention, an integrated bowel stimulation, toilet and bidet system is provided including a toilet bowl element having an interior surface, an exterior surface and an opening. A cold water control is located on the toilet bowl for providing user-control of an output flow of cold water, and a hot water control located on said toilet bowl for providing user-control of an output flow of hot water. A tempering valve for preventing the temperature of output hot water from exceeding a specified level.

[0008] In another aspect of the present invention, an integrated toilet and bidet system is provided including a toilet bowl element having an interior surface, an exterior surface and an opening. A dispenser is provided for ejecting a user-controlled output flow of water into the toilet bowl element, the dispenser passing through a wall of the bowl such that the dispenser enters at the exterior surface of the bowl and protrudes from the interior surface.

[0009] These, and other aspects, features and advantages of the present invention will be described or become apparent from the following detailed description of the preferred embodiments, which is to be read in connection with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] In the drawings wherein like reference numbers denote similar elements throughout the views:

[0011] FIG. 1 is an exemplary illustration of a front perspective view of an integrated toilet and bidet according to an embodiment of the present invention;

[0012] FIG. 2 is an exemplary illustration of an internal view of the integrated toilet and bidet according to FIG. 1 showing main components according to an aspect of the present invention;

[0013] FIG. 3 is a top plan view of the integrated toilet and bidet of FIG. 1 according to an aspect of the present invention; and

[0014] FIG. 4 is an exemplary cross-sectional view along lines A-A of a bowl element showing a dispenser component according to an aspect of the present invention.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0015] The integrated toilet and bidet of the present invention is a life-changing apparatus which assists in promoting elimination in a regular, expedient and pain-free manner. The present invention naturally stimulates bowels to pass quickly and smoothly, thus reducing or eliminating valuable time spent on the toilet straining to pass a bowel movement, which in turn prevents conditions caused and/or aggravated by straining such as hemorrhoids, anal fissures, varicose veins, etc. The present invention relieves and prevents constipation as well, in promoting regular elimination, can help prevent colon cancers. Vital energy and overall well-being is also improved.

[0016] Positive effects of the present invention are especially appreciated in today’s processed/fast-food oriented society. In addition, the present invention is time-saving, as it is multifunctional and incorporates a bowel movement stimulator, a toilet and bidet functions into a single unit. Advantageously, the user can stimulate bowel movements, flush away the waste and then use the bidet feature for cleansing, all while remaining seated on the same unit.

[0017] Referring now to the Figures, the illustration of FIGS. 1 and 2 depicts a front perspective view of an integrated bowel stimulator, toilet and bidet 100 including controls 102 and 104. FIGS. 3 and 4 show top and side cross-sectional views thereof.

[0018] Controls 102, 104 are provided; each preferably comprise separate hot and cold water controls, respectively, which each additionally include a water pressure control feature. The controls 102, 104 permit the user to adjust both the rate of flow and the temperature of the water ultimately ejected from a dispenser 219. Controls 102, 104 are preferably located in a convenient, user-accessible location on the toilet bowl, e.g., protruding from the bowl element 401.

[0019] FIG. 2 shows an exemplary component arrangement according to an aspect of the present invention, with arrows shown to indicate direction of water flow. Main cold water inlet tube 201 is provided for supplying cold water flow to the control 104. The rate of water flow is user-controllable via setting of the control 104, wherein the
A hot water inlet 207 and a secondary cold water inlet 209 are provided to supply 'hot' water to the control 102. Preferably, a tempering valve 211 is provided operably connected at the junction of the hot water inlet 207 and secondary cold water inlet 209. The tempering valve 211 preferably prevents the temperature of incoming hot water from exceeding a specified/preset level for safety purposes to avoid scalding, especially of delicate anal/genital areas. The tempering valve 211 may incorporate, e.g., a built-in thermostat for facilitating temperature assessment and/or user-adjustment of a desired temperature threshold.

[0021] After passing through the tempering valve 211, the discharge from both the hot water inlet 207 and secondary cold water inlet 209 is passed through a single mixed water inlet 213 which supplies the mixed discharge to the control 102; the flow rate of the mixed discharge is user-controllable via setting of the control 102, wherein the user-selected amount of warm water flow is then sent to the vent 203 via hot water outlet 215.

[0022] A dispenser tube 217 is provided for supplying the dispenser 219 with the user-controlled water output flow from outlets 205 and/or 215. A vent 203 (i.e., vacuum breaker) is provided at the junction of the outlets 205, 215 and the dispenser tube 217 to prevent a vacuum from forming in the respective tubes, thus facilitating water flow.

[0023] Opening 407 serves a conventional purpose of passing water into and sewage out of the bowl 401. The bowl 401 includes an exterior surface 409 and interior surface 411.

[0024] The dispenser 219 is preferably affixed to the bowl 401 and situated such that it passes through the wall of the bowl 401, i.e., it enters through the exterior surface 409 of the bowl and exits/protrudes from the interior surface 411. The dispenser 219 is preferably located in front of the opening 407.

[0025] The dispenser 219 preferably includes a nozzle 403 adapted to direct a spray of water at the anal/genital region of the user. The dispenser 219 is preferably situated such that at least the nozzle 403 is positioned above a predetermined (e.g., maximum) level 405 of water of a properly filled toilet bowl.

[0026] The locations/positions of all the elements of the present invention as shown in the Figures are for exemplary purposes only. In particular, it is to be noted that the control(s) may be configured to be manually operated by the user and may be located in any position on the apparatus 100, which preferably is conveniently accessible to the user for manipulation.

[0027] Advantageously, the present invention provides a convenient, hygienic and comfortable means for permitting a user to manipulate and customize water temperature and water pressure to stimulate the bowels to loosen and eliminate promptly. The desired temperature and pressure of water can be emitted from the dispenser nozzle for relaxing, soothing and massaging the anal muscles, which in turn facilitates waste elimination.

[0028] Although illustrative embodiments of the present invention have been described herein with reference to the accompanying drawings, it is to be understood that the invention is not limited to those precise embodiments, and that various other alterations, modifications and improvements may be affected therein by one skilled in the art. Such alterations, modifications and improvements are intended to be within the scope and spirit of the present invention. Accordingly, the foregoing description is by way of example only and is not intended to be limiting. This invention should be limited only by the appended claims and equivalents thereof.

What is claimed is:

1. A bowel stimulation, toilet and bidet system comprising:

   - a toilet bowl element having an interior surface, an exterior surface and an opening;
   - a cold water control located on the toilet bowl for providing user-control of an output flow of cold water;
   - a hot water control located on said toilet bowl for providing user-control of an output flow of hot water;
   - a tempering valve for limiting the temperature of output hot water from exceeding a specified level.

2. The system of claim 1, further including a dispenser for ejecting the user-controlled output flow of water into the toilet bowl element, the dispenser passing through a wall of the bowl such that the dispenser enters at the exterior surface of the bowl and protrudes from the interior surface.

3. The system of claim 2, wherein the dispenser is affixed to the interior surface of the toilet bowl in front of the opening.

4. The system of claim 2, further including a dispenser tube for outputting the user-controlled amount of at least one of hot or cold water to the dispenser.

5. The system of claim 4, further including a hot water outlet and a cold water outlet for outputting the user-controlled flow of hot and cold water to the dispenser tube, wherein a vent is provided at a junction of the hot water outlet, the cold water outlet and the dispenser tube.

6. The system of claim 2, wherein the dispenser further includes a nozzle, wherein said user-controlled flow of at least one of hot or cold water is ejected from the nozzle towards the anus of the user when the user is seated on the toilet.

7. The system of claim 6, wherein at least the nozzle is positioned to be above a predetermined toilet bowl water level.

8. An integrated toilet and bidet system comprising:

   - toilet bowl element having an interior surface, an exterior surface and an opening; and
   - a dispenser for ejecting a user-controlled output flow of water into the toilet bowl element, the dispenser passing through a wall of the bowl such that the dispenser enters at the exterior surface of the bowl and protrudes from the interior surface.

9. The system of claim 8, wherein said dispenser is affixed to the interior surface of the toilet bowl in front of the opening.

10. The system of claim 8, further providing a cold water control located on the toilet bowl for providing user-control of an output flow of cold water and a hot water control located on said toilet bowl for providing user-control of an output flow of hot water.
11. The system of claim 10, further providing a tempering valve for preventing the temperature of output hot water from exceeding a specified level.

12. The system of claim 10, further including a dispenser tube for outputting the user-controlled amount of at least one of hot or cold water to the dispenser.

13. The system of claim 12, further including a hot water outlet and a cold water outlet for outputting the user-controlled flow of hot and cold water to the dispenser tube, wherein a vent is provided at a junction of the hot water outlet, the cold water outlet and the dispenser tube.

14. The system of claim 8, wherein the dispenser further includes a nozzle, wherein the user-controlled flow of at least one of hot or cold water is ejected from the nozzle towards the anus of the user when the user is seated on the toilet.

15. The system of claim 14, wherein at least the nozzle is positioned to be above a predetermined toilet bowl water level.

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