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Title of the invention**Control of handicapping liquids.**

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Technical field to which the invention relates:

Control of handicapping liquids, consists of a device for the complete management of the flow of voluntary or involuntary urine, and the menstrual flow cycle for women in daily life even moving unobtrusively, this equipment is autonomous, hermetic, lightweight, comfortable and discreet, has a system of cleaning and sanitizing the penis and removal after urination, with an option of back pack tank with telescopic faucet, which can also perform the ritual of purification of body parts by water in this case of occurrence of ablutions for Muslims.

Condition of the prior technique:

For the management of incontinence of disposable absorbent plastic diapers, some of which for women, have a powder to freeze the urine and avoid overflow, as there exists a system called PENI- FLOW connected to a collector, is used.

Aim of the invention:

The aim of the invention is to restore a normal quality of life for patients to share the perfect management of incontinence and menstrual flow of women, in order to free them completely from this handicap by a total range of motion with ease. As it allows Muslims a permanent hygiene, the accomplishment of ablution for their prayers. And at the holy places of Islam at Mecca, the days of Hajj to stabilize the movements which will increase the area and therefore the number of pilgrims in Mina and Arafat Djebel, to avoid contacts reducing the contagious diseases epidemics to increase the safety of people and give them more rest.

STATEMENT OF FIGURES:

Figure no. 1:**Main Slip:**

It consists of a slip or shorts with:

An opening for fixing the fringe of the envelope serving as a urinal. Side openings, to defecate without de-taped the system, keeping the front part of the slip which becomes independent of the rear part with adjustable belt for the support of a wash pump.

Figure No. 2:**Latex envelope:**

It consists of a curved plane shaped like a half ellipsoid (having undergone a rotation about the major axis).

On this envelope three parts are attached, which are:

- a) The domed membrane and flask that acts as a urinal in its outer part.
- b) The sleeve at the top (It is open) for receiving the penis.
- c) The bottom pocket to accommodate the scrotum:

The position of parts b and c will be the one for the use of the envelope after loosening the mould (actually in the mould, the two parties will be reversed).

An opening at the top is the one reserved for the tube penetrating into the envelope. In fact the tube enters the stub secured to the envelope. It is cylindrical and having 5 mm height and 5 mm diameter.

The bottom tube coming out of the envelope will be an opening having the shape of an inverted pyramid; it will act as a funnel. This pyramid is constituted by two sides of equal and symmetrical trapezoid.

The elliptical flat surfaced part on the inner side of the envelope, closing and matching the shape of the half ellipsoid. The extension of the surface part is the fringe, 3 cm in excess for the attachment of the envelope to the main slip.

Figure No. 3:

Knee brace:

It will play the role of a collector

Figure No. 4:

Collector:

Collector packet consists of honeycombs in the form of bubbles or a hemisphere cut along a diameter, which communicate with each other in order to avoid the effect << ball pocket >> in its final stage at the receipt and storage of liquids. Hermetic flexible and / or elastic.

Figure No.5:

Tank:

New rectangular pump for the carrying the washing and disinfection liquid for women to avoid microbial infection, equipped with a exit hatch valve and a filling mouth and a tube connected to the watering can of the envelope in its upper part. It works by manual pressure and whenever wanted.

Figure No.6:

a) **Watering can:**

It will be located towards the top of the envelope and placed so as to send the liquid with a strong jet.

b) **Pipes:**

The pipe connecting the envelope to the collector is flat with high flow. It is located in the extension of the funnel which ends the envelope. The pipe connecting the pump to the envelope is conventional rounded.

c) **Valves :**

They are four in number, the first two that have different sizes have identical functions.

The collector valve comprises of a flap opening inwards or would clamp the non return valve of the flat outlet nozzle coming from the envelope.

- Pump Valve which is used to release the liquid for washing or disinfection by manual pressure (on the pump in soft rubber). Its role is to stop the liquid or release it during the manual pressure.
- Non-return valve, located at the end of the flat pipe connecting the envelope to the collector.
- Air discharge valve, its function is to release the air whilst preventing liquids to pass, facilitating the movement of liquid and evacuation to the collector. It will be located on the upper level of the envelope about 10 mm cylindrical stump. It is similar to the one used in aquariums.

Adhesive:

The adhesive to be used is a double-sided hypoallergenic, it serves to seal and close the urinal hermetically, consisting of the envelope on the skin. It has a width of 15 mm for the man; it will take an elliptical shape so as to pass around the sleeve of the penis and the scrotum pocket. For the woman, starting from the side of the envelope approximately 15 mm oval around the genital area.

Figure No. 7

Ablutions jacket:

It consists of a single piece of latex material of rectangular shape, where 2 pocket water tank may be attached with 2 straps and a belt, with a 40 cm telescopic pipe, at its end a 7 cm valve rod with a half-circle closing and opening function.

Presentation of the essence (substance) of the invention:

The invention is a system that can manage comprehensively, the incontinence handicap, and menstrual flow of women to give independence to urinate anywhere and at any time, even while moving. The novelty of this system lies in the fact that the device consists of a set of elements unknown to this day, giving it a total capacity of management of urine and menstrual flow.

It has the following elements:

- A slip, with a urinal envelope with a slot for the penis and scrotum.
- A knee brace with pockets for the support of honeycomb collectors to avoid the "ball" effect.
- A manual pump, fluids tank, for washing and disinfection.
- The collector, without ball effect, is partitioned into honeycombs, and has a large storage capacity, pipes, and valves having different functions.
- A back pack jacket, provided with straps and a fastening belt. This jacket is designed to store water for the ablutions. It is equipped with a telescopic metal

tube with half-moon designed faucet that can open and close in a flexible and practical manner.

Way of making the invention

Making the invention consists of moulding process of the following parts:

- Envelope, urinal, penis and scrotum holder in latex by steeping technology.
- Moulding of hand pump in soft rubber by injection or press technology.
- Moulding of the honeycomb collector by injection or press technology in plastic.
- Making the knee brace in thin latex or elastic resistant fabrics.
- Flat latex pipes with large flow.
- Valves and anti-allergenic adhesive.
- Ablutions jacket crafted in thin latex with straps and belt, making a new type of telescopic tube.

How the invention is capable of application:

This invention relates to both the sexes, adolescents and adults. The use begins by placing the slip as a panty and taping the edge of the envelope around the penis and scrotum of a double-sided anti-allergenic, medical adhesive, and then adjusted according to the measurements by the side openings. Place the tank pump on the left hip in the hip belt and connect the washing pipe. Attach the knee brace above the knee to the ankle. Take the honeycomb collector, and connect it to the flow tube provided with a non return valve and place it in the pocket of the knee brace.

Textual description - form rule

The patient dresses as or wears a slip.

Adjusts the device according to his size by the belts of the side openings. Places the penis in the urinal envelope sleeve and places the scrotum, for men, sealing is done by taping the envelope to the skin with double-sided tape.

He then sets the knee brace, fixes the pump, and attaches the collector to the tip of the tube. When the user urinates, the flow is handled hermetically, first the penis empties the urine in the urinal envelope, from the latter, it only has the choice of the passing through the pipe along the inner thigh to flow and pour into the collector. For women the flow is managed identically.

Then the patient manually activates the pump pressure acting on the opening valve and releases the pressurized liquid distributed by the watering can, for effective cleaning and disinfection by water that contains an antiseptic. The path is the same and the pipes of the device are washed and disinfected the same way as the genitals. The collector of a large capacity by design, once filled, is detached from the tube, the valve automatically closes and the bag is hermetically sealed to be thrown in the trash without risk of damage. It is quickly replaced by a spare bag accommodated in the stock of the knee brace.

The side openings of the slip allow patients to defecate without de-taped the process of fixing the envelope, and adjust the measurements.

Claims:

1-Control of handicapping liquids, characterized as a solution adapted to a system, autonomous hermetic for the voluntary or involuntary urine flow management for both the sexes, as well as menstrual flow for women. The objective of this invention is to free people from this handicap, to give them a better quality of life with a high degree of autonomy in daily life, even whilst in movement. This system has an option of washing and disinfection. Composed of a set of parts which communicate with each other to achieve the result set, the parts are: the envelope, honeycomb collector, the manual pump, the appropriate slip, the knee brace, the jacket, pipes and valves.

2.- Control of liquids according to claim 1, characterized by the envelope, hermetic, receives and manages the liquids for evacuation to the honeycomb collector receives water from the pump for washing the organs and pipes. This curved plane latex envelope having the shape of a half-ellipsoid, having undergone a rotation about the major axis of which are attached:

- a) the curved membrane and flask, which acts as a urinal on the outside.
- b) the sleeve at the top, it is open for receiving the penis.
- c) the pocket at the bottom to receive the scrotum.

The position of parts b and c will be the use of the envelope after loosening the mould (actually in the mould, these two parties will be reversed). A hole at the top is the one reserved for the tube penetrating the envelope, in reality this tube penetrates in the stub secured to the envelope. It is cylindrical and has a height of 5 mm and 5 mm diameter. The tube coming out from the bottom of the envelope that will be an opening having the shape of an inverted pyramid, this pyramid consists of two sides of equal and symmetrical trapezoidal shape. The flat elliptical surfaced part inside the envelope closing and matching the shape of the half-ellipsoidal, extension of the surfaced part representing the fringe with an extension of 3 cm, for fixing the envelope to the main slip. The envelope for women, elliptical opened in its flat surfaced part matching the shape of the body of the female genital.

3.- Control of handicapping liquids according to claim 1, characterized by the removal of liquids is received and stored in a honeycomb collector in the form of bubbles, or a half-

sphere cut along a diameter, which communicate with each to avoid the << ball pocket >> effect in its final stage at the receipt and storage of liquids. Hermetic flexible and / or elastic.

4. — Control of handicapping liquids according to claim 1, characterized by the cleaning and disinfection are carried out by a manual pump and on demand, located on the right hip. This tank pump is in soft rubber with a rectangular form but curved semi circularly with a filling mouth at the upper end, and a lower outlet opening before which there will be a valve flap for releasing or stopping the liquids.

5—Control of handicapping liquids according to claims 1, characterized by the support of all these parts is a slip adapted to be worn as a dress inside or the penis and scrotum holder urinal envelope will be sealed in its lower curved part for the management of genitals organs. This slip has side openings, in order to defecate without de-taping and the measurements can be adjusted. Connected to the collector and to the pump by pipes.

6. - Control of handicapping liquids according to claim 1, characterized by the weight of the liquids of the collector will be borne by a knee brace with pockets.

7. — Control of handicapping liquids characterized by the hygienic water is stored in a jacket with straps << backpack >> provided, at the left hip with a compressed faucet with a 40 cm telescopic rod at its opening.