ABSTRACT

A combination paper dispenser with a liquid or powder discharge device for selective application to the paper. The paper may be toilet paper, or the like, in roll or sheet form. The liquid or powder dispensed on the paper in small quantities is for personal cleansing of the rectal and genital areas of the human body and results in a thorough cleansing of the selected areas. The device may be mounted on a bathroom wall, may be a free standing, self-supporting portable unit, or may be attached to the present toilet paper holder.

5 Claims, 7 Drawing Figures
DISPENSER AND LIQUID APPLICATOR FOR TOILET PAPER, PAPER TOWELS, AND THE LIKE

The present invention relates to a combination paper dispenser and liquid or powder applicator for hygienic use and is a continuation-in-part of my co-pending U.S. Pat. application, Ser. No. 253,737, filed on May 16, 1972, now abandoned.

It is well known that the bidet is an accepted device for personal cleansing of rectal and genital areas. Although this type of facility is widely used in foreign countries, it has not gained any widespread acceptance in the United States. Moreover, bidets are expensive to install, since it requires extensive plumbing connections. It is also known that it is difficult if not impossible to thoroughly cleanse the rectal and genital area of the human body without taking a shower or a bath with soap.

In view of the foregoing, the present device was developed which will permit the thorough cleansing of certain areas of the body whenever required.

It is an object of the present invention to provide an intimate personal cleansing device that can be either mounted on a bathroom wall, attached to the present toilet paper holder, or can be free standing in any suitable location in the bathroom.

It is another object of the present invention to provide an intimate personal cleansing device for rectal and genital areas of the human body wherein liquids or a powder may be selectively dispensed on the toilet paper by means of operating a valve which permits the dispensing material to be squirted or applied in small quantities on the desired area of the paper. Thus, the liquid or powder may be applied to the toilet paper when required and in the amounts deemed necessary.

It is a further object of the present invention to provide a specially constructed paper for the present dispenser which is provided with a moisture resistant backing material in order to prevent the paper from disintegrating during use because of excessive moisture.

A further object of the present invention is to provide a combination paper dispenser and liquid supply in a single throw-away housing, the liquid valve and dispensing tube being removably attached to the liquid supply but permanently fixed to the container supporting the combination.

Another object of the present invention is to provide at least two liquid supply receptacles positioned at opposite ends of the paper dispenser and valve operators for selectively dispensing either or both of the liquids from their respective receptacles.

An object of the present invention is to provide a compact, portable decorative unit for housing the paper and liquid or powder dispenser.

A further object of the present invention is to provide a cabinet with a liquid dispenser arrangement that has refillable bottles. The liquid can be a fluid spray, mist or foam, that is medicated or non-medicated. In addition, the cabinet may contain a heating element for heating the liquids in the bottles.

The invention will now be more fully described with reference to the accompanying drawings wherein:

FIG. 1 is a partly sectional and partly elevational view of the combined dispenser and liquid applicator for toilet paper showing the upper hinged lid in two positions;

FIG. 2 is another sectional view of the device shown in FIG. 1 showing certain details of construction and the lower hingedoor in two positions;

FIG. 4 is a perspective view of a special lamina of toilet paper roll having a moisture resistant backing which is utilized in the present device;

FIG. 5 is another embodiment of the present invention shown in a front elevational view in which a combination paper dispenser and liquid applicator is mounted in a container having the valve and its dispenser tube fixed thereto;

FIG. 6 is a perspective view of the throw-away sheet paper dispenser and liquid supply receptacles, all packaged and replaceable as a single unit; and

FIG. 7 is a front elevational view of the combination throw-away package comprising a paper dispenser and liquid applicators.

DESCRIPTION OF THE PREFERRED EMBODIMENTS OF THE INVENTION

Referring to FIG. 1, a cabinet 10 is shown for application to a wall by means of screws (not shown) passing through the holes 12. It should be understood that it is within the scope of the present invention to have the present combined dispenser and liquid applicator for toilet paper, or the like, constructed as a free standing unit having legs (not shown) or as an attachment to an existing toilet paper holder. The free standing construction results in a portable, compact unit that can be moved from bathroom to bathroom or from bathroom to bedroom for use in conjunction with a baby on a baby bassinet as needed. The cabinet 10 may be fabricated of plastic, metal, wood, or any other suitable material and is provided with downwardly projecting, depending portions 10a on which is mounted a removable spindle 14 having a roll of paper 16. As seen in FIG. 4, the paper 16 is laminated to a moisture resistant backing layer 18, such as a water-soluble, wax-backed sheet.

The cabinet 10 is provided with an upper lid 20 hinged at 22 to the cabinet. As seen in FIG. 2, the lid 20 is in closed condition in the full line position, and in open condition in the dotted line position. The lid 20 additionally has apertures 24 and 26 through which the shafts 28 and 30 of pressing knobs 32 and 34 are adapted to pass. Surrounding the shafts 28 and 30 are helical compression springs 36 and 38.

The cabinet 10 is also provided with a lower door 40 that is pivoted on hinge 42 and has a finger hole 44 for manually opening the door 40 in order to remove the containers 46 for refilling purposes. The upper marginal edge of the door 40 is provided with a relatively sharp serrated metallic edge 41 for severing the paper 16 at the selected locations thereof. The containers 46 which are shown filled with liquid 48 may also be provided with a foam or a powder. Each of the containers 46 has push-actuated valve 50. As seen in FIG. 2, the left hand pressing knob 32 is depressed against the spring 36 thereby pushing the corresponding valve 50 downwardly and consequently dispensing liquid through the jet nozzle 50a onto the paper 16. The right hand pressing knob 34 is not pressed and thus, the corresponding right hand valve 50 is inactive.
As seen in FIGS. 2 and 3, the hooks 52 are connected to the rear wall 10b of the cabinet 10 and function as guides or holders for the jet nozzles 50a of the valves 50. A pair of spaced rods 54 is shown in FIG. 3 located adjacent to the path of movement of the paper 16 which prevents the movement of the containers 46 rearwardly into engagement with the paper 16. With regard to the latter, the smooth movement of the paper is ensured by means of rolls 56 and platform 58.

It should be apparent that the paper 16, when used, is drawn off the roll and passes over rolls 56 in the back of the cabinet 10. The paper 16 then is pulled over the platform 58 and under the jet nozzles 50a and finally out the opening 60 between the serrated edge 41 and the adjacent upper portion of the cabinet 10. The desired length of paper is pulled out of the opening 60 and torn off the remainder of the roll by an upward movement of the paper against the serrated edge 41.

It should also be noted that the containers 46 may contain the same or different substances. Thus, one container 46 may have a soapy liquid while the other container 46 may have a rinsing liquid. A medicated liquid, such as witch hazel, may also be used in container 46. A dry substance, such as medicated powder, can be used in a container, however, a different type of dispensing nozzle would be employed in that circumstance.

The use of a toilet paper 16 with the present device that has a moisture resistant backing 18 is especially desirable inasmuch as the liquid from the containers 46 that is applied to the paper will not penetrate through the entire paper and cause the same to shred or disintegrate upon use.

Although two containers 46 are illustrated in the drawings, it is to be understood that single container 46 may be utilized, or more than two containers 46 may be employed with the present device and the paper 16 may be rolls, sheets, or any type of suitable absorbent material that is ecologically suitable for toilet disposal.

It should be also apparent that the present device may dispense dry toilet paper in the normal manner when it is not desired to apply either liquid or powder selectively to the paper.

Referring now to FIGS. 5 and 6, the embodiment shown therein illustrates a container 62 preferably having an open front section and valve operators 66 and 68 hinged to the rear wall 70 of the container 62.

A combination paper dispenser and liquid supply package is removably supported in the container 62 and is referred to generally by the numeral 72. The paper supply 74 is located generally in the middle of the package while the liquid supply receptacles 76 and 78 are positioned on opposite ends of the paper supply. The receptacles 76 and 78 may take the form of bottles, plastic bags, or any other suitable vessel for storing and dispensing liquid or powders. It should be noted that the combination paper dispenser and liquid supply package 72 is expendable and is purchased with removable closures 80 and 82 for the respective liquid supply receptacles, as clearly seen in FIG. 6. The package 72 is then inserted in the container 62 and respective valves 84 and 86 are screwed on the threaded necks of receptacles 76 and 78, respectively. Each valve 84 and 86 is provided with flexible dispensing tubes 88 and 90, the ends of which are held in clamp holders 92 and 94 located on the inside of the top of the container 62. The container 62 may be secured to the wall, for example in the bathroom or kitchen, by any suitable fastening means.

The paper supply 74 may be in sheet or roll form, and the sheets may be individually pulled out or detached. Thereafter, the user may place the detached paper sheet under either or both of the openings 96 and 98 of the dispensing tubes 88 and 90 and depress the selected valve operators 66 and 68 and the selected liquid or powder will be dispensed in the amounts desired on the paper sheet.

As seen in FIG. 7, a combination throw-away package 72 is shown with closures 80 and 82 for the liquid supply containers in the package. It will be apparent that this package can be easily inserted in the container 62 and rapidly removed when it is desired to replace the same.

What is claimed is:
1. A self-contained paper dispenser and flowable substance discharge device for selective application to said paper comprising: a cabinet provided with an interior access means, an expendable combination paper and flowable substance supply package, a valve and connected discharge conduit located inside of said cabinet, said valve being selectively attached to and removable from said flowable substance supply, a deppressible manual operator in said cabinet, said conduit being positioned in said cabinet above and having a discharge end spaced from said manual operator whereby the user's hand grasping the paper may be inserted in said space between the discharge conduit end and said manual operator in order to depress said manual operator for opening the valve and permitting the flow of the flowable substance through said discharge conduit to said paper.
2. The combination as claimed in claim 1 wherein the discharge conduit is a flexible tube that is so located in the cabinet that the user may depress the manual operator and discharge an amount of the substance on the paper with a single hand.
3. A self-contained paper dispenser and flowable substance discharge device as claimed in claim 1 wherein said interior access means is an open side of said cabinet.
4. A self-contained paper dispenser and flowable substance discharge device as claimed in claim 1 wherein said manual operator is a plate that is hinged to the back of the cabinet and when the plate is depressed a portion of the undersurface of said plate engages the valve to open the same.
5. A self-contained paper dispenser and flowable substance discharge device as claimed in claim 1 further comprising a clamp on said cabinet for holding the free end of said discharge conduit in spaced relation above said manual operator.

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