April 13, 1965 R. M. BAUMAN 3,177,500

PORTABLE URINE SPECIMEN COLLECTING DEVICE

Filed Aug. 6, 1964

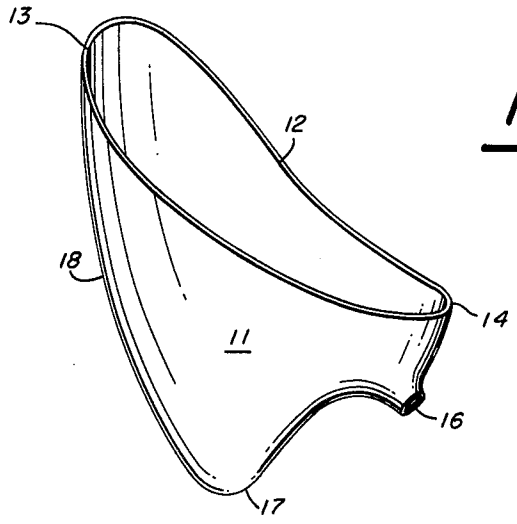


FIG. 1

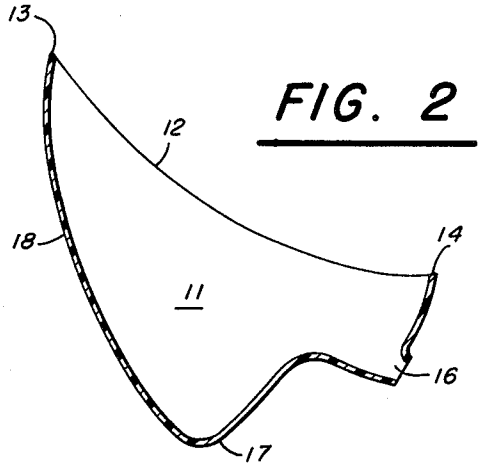


FIG. 2

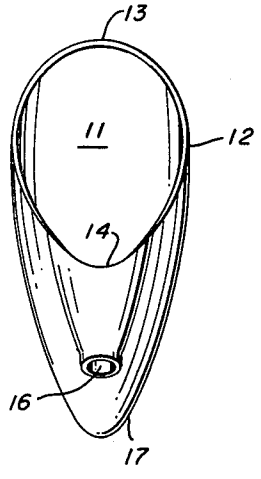


FIG. 3

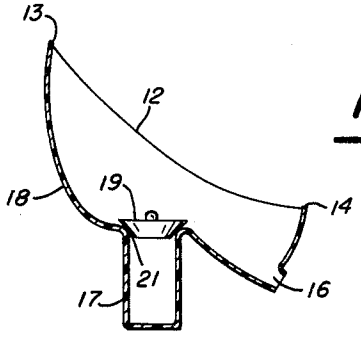


FIG. 4

INVENTOR.
RALPH M. BAUMAN

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PORTABLE URINE SPECIMEN COLLECTING DEVICE

Ralph M. Bauman, 7845 Lake Adlon Drive, San Diego, Calif.

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6 Claims. (Cl. 4—110)

The present invention relates to an improved portable urine specimen collecting device, and more particularly to an improved portable urine specimen collecting device which is contoured and equipped with an overflow drain, and more specifically to an improved portable urine specimen collecting device in which a collecting container is an integral part of the device.

According to the present invention, a funnel member having a top opening contoured for a snug fit over a female's pelvic area is provided with a forward bottom section which forms a container integral with the funnel member, and an opening which provides an overflow outlet when the specimen container is full. Upon completion of urination, the user simply tilts the entire funnel member slightly forward to obviate any dripping from the overflow opening and pours the urine collected in the container portion into a convenient receptacle such as a standard urine specimen bottle. Another embodiment includes a stopper for a frictional engagement with the top of the container portion of the funnel member. In the latter embodiment, the entire structure can be utilized as the urine container as well as the urine collecting device.

An object of the present invention is the provision of a portable urine specimen collecting device for females in which a top opening is contoured for a snug fit over the user's pelvic area.

Another object is to provide a portable urine specimen collecting device for females which has a drain for cooperation with a standard urine specimen container.

A further object of the invention is the provision of a portable urine specimen collecting device for females in which the said drain functions also as an overflow drain.

Still another object is to provide a portable urine specimen collecting device for females which can be utilized as the urine specimen container.

Yet another object is to provide a portable urine specimen collecting device for females which is compact, simple to manufacture and convenient to use.

Other objects and many of the attendant advantages of this invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings in which like reference numerals designate like parts throughout the figures thereof and wherein:

FIG. 1 is a perspective view of a preferred embodiment of the present invention;

FIG. 2 is a sectional view of the embodiment of FIG. 1;

FIG. 3 is a top view of the embodiment of FIG. 1; and

FIG. 4 is a sectional view of another embodiment of the present invention.

Referring to FIG. 1, funnel member **11** is shown generally having top opening **12**, with raised front edge **13**, lowered back edge **14** and bottom overflow and drain opening **16**. Container portion **17** is forward and integral with front edge **18** and lower than opening **16**.

Referring to FIG. 2, funnel member **11** again has opening **12** with raised front edge **13**, lowered back edge **14** and overflow and drain opening **16**. Container portion **17** is again shown integral with the front portion **18** of funnel member **11** and is lowered and forward of drain **16**.

Referring to FIG. 3, funnel member **11** has contoured top opening **12** with raised front edge **13**, lowered rear edge **14** and overflow and drain opening **16**.

Referring to FIG. 4, funnel member **11** has contoured top opening **12** with raised front edge **13**, lowered back edge **14** and drain and overflow opening **16**. Container portion **17** is integral with front portion **18** and has stopper **19** frictionally engaged in container opening **12**.

Referring back to FIGS. 1, 2 and 3 it can be seen that in use the container portion **17** will fill until the level of overflow drain **16** is reached. At this time any excess will pass through drain **16** into a waste receptacle. It is pointed out that aperture **16** may have a hose attachment where convenient or necessary. After use, the entire unit **11** may be tipped slightly forward trapping the urine in container portion **17** and then poured off through drain **16** into a convenient receptacle such as a standard urine specimen bottle.

Referring to FIG. 4, the apparatus is operated in the same manner. In use container portion **17** fills up, any excess flowing out through excess drain aperture **16**. At this time the unit may be tipped slightly to the rear, making sure all excess is removed, and a stopper **19** frictionally engaged with opening **21** of container portion **17**. The entire unit can then be conveniently taken to a laboratory for analysis without the necessity of additional specimen containers.

It should be understood, of course, that the foregoing disclosure relates to only a preferred embodiment of the invention and that it is intended to cover all changes and modifications of the examples of the invention herein chosen for the purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

I claim:

1. An improved portable urine specimen collecting device for females comprising:
   - a funnel member having a top opening contoured for a snug fit over a user's pelvic area;
   - a first bottom opening in said funnel member;
   - a container portion integral with said funnel member and extending beneath said first bottom opening;
   - a second bottom opening in said funnel member, said second bottom opening being positioned for disposition of any overflow from said container.

2. The improved portable urine specimen collecting device of claim 1 wherein said first bottom opening is higher than said second bottom opening when said container is held upright.

3. The improved portable urine specimen collecting device of claim 2 and further including a stopper frictionally engaged with said first opening for sealing said container portion.

4. The improved portable urine specimen collecting device of claim 1 and further including a stopper frictionally engaged with said first opening for sealing said container portion.

5. An improved portable urine specimen collecting device for females comprising:
   - a funnel member having a top opening contoured for a snug fit over a user's pelvic area and having front and back portions;
   - a container portion integral with said front portion and extending and disposed as the lowest portion of said funnel member;
   - an opening in said back portion, said opening being positioned for any overflow from said container.

6. The improved portable urine specimen collecting device of claim 5 wherein said opening is higher than said container portion when said container is held upright.

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LEWIS J. LENNY, *Primary Examiner.*