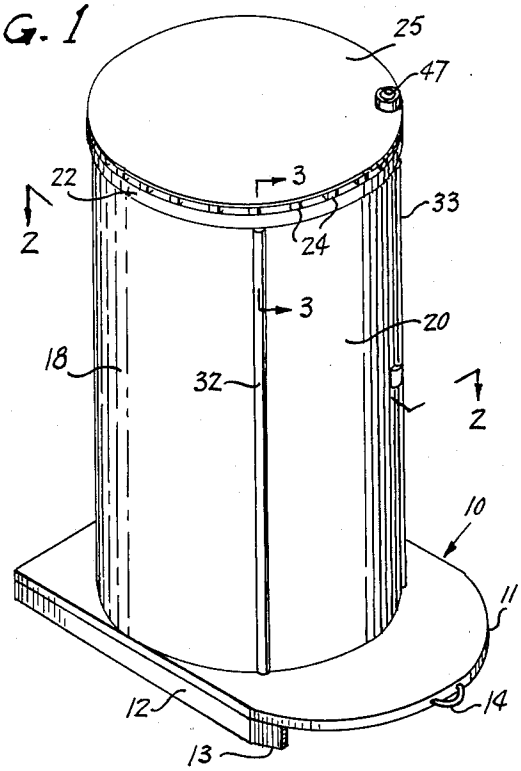
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PORTABLE ROUND TOILET BUILDING

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FIG. 1



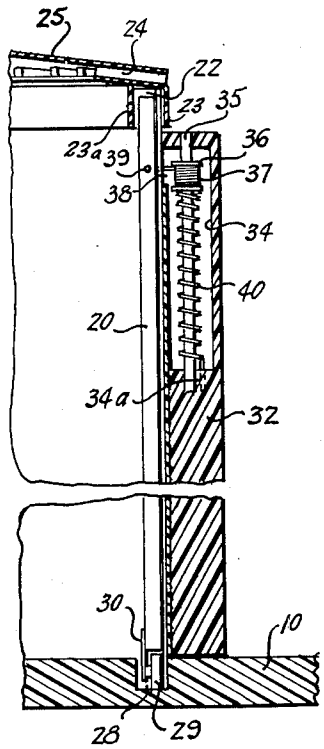


FIG. 3

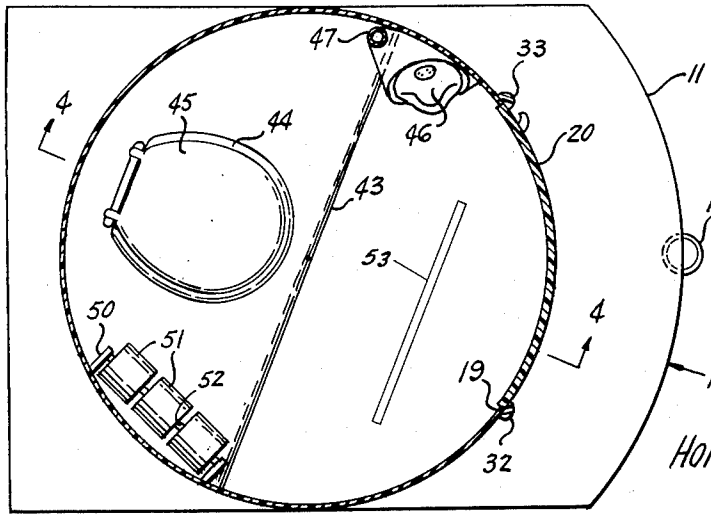


FIG. 2

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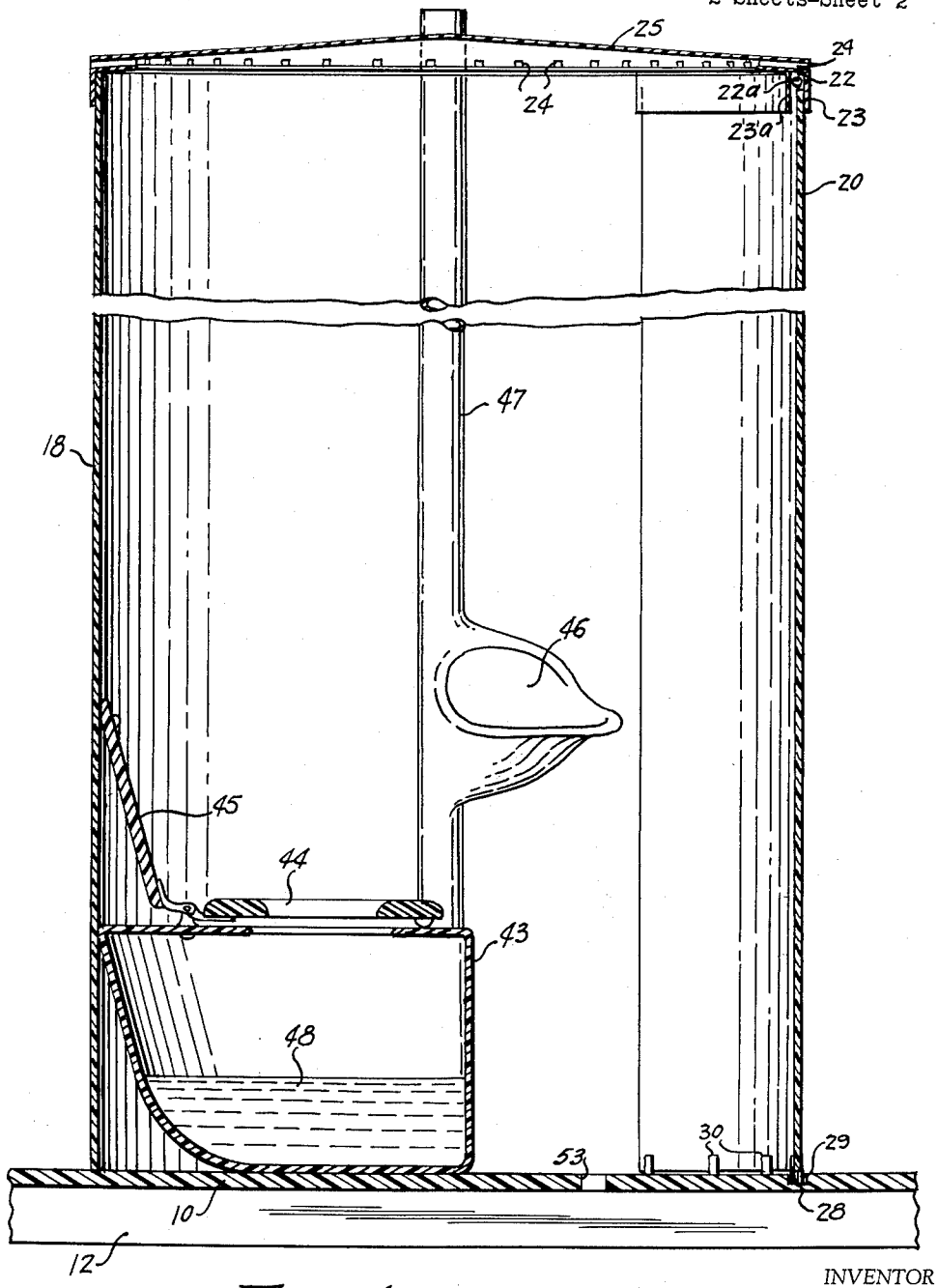


FIG. 4

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3,066,311

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PORTABLE ROUND TOILET BUILDING

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Filed Oct. 17, 1961, Ser. No. 145,691
5 Claims. (Cl. 4—3)

This invention relates to a portable round toilet building which is completely self-contained and which may be moved from place to place as necessary to provide toilet facilities in out-of-the-way situations, such, for example, as the site of construction projects, public affairs meetings held out-of-doors, and the like.

A primary object of the invention is the provision of a round portable toilet building of this character which will be completely self-contained and which will conform to the several sanitation code requirements of the variable States.

An additional object of the invention is to provide a lightweight portable toilet building of circular construction and formed on a base in such manner as to render it highly resistant to overturning by wind, crowd pressure, or similar forces.

A further object of the invention is the provision of a device of this character which is made of lightweight material, such as plastic, fiber glass, or the like, which requires no connection to any outside source of water or sewage.

Still another object of the invention is the provision of a device of this character having a self-closing door.

Still another object of the invention is the provision of such a toilet building which is of a weight and size to facilitate its ready transportation from site to site as may be necessary or desirable.

A further object of the invention is the provision of a device of this character which is sturdy and durable in construction, reliable and efficient in operation, and also in accord with all of the several sanitary codes, and which is relatively inexpensive to manufacture.

Still other objects will in part be obvious and in part be pointed out as the description of the invention proceeds and shown in the accompanying drawing wherein:

FIGURE 1 is a perspective view of one form of portable building constructed in accordance with the instant invention.

FIGURE 2 is an enlarged sectional view taken substantially along the line 2—2 of FIG. 1 as viewed in the direction indicated by the arrows.

FIGURE 3 is an enlarged sectional view, partially broken away, disclosing in detail the apparatus for rendering the door self-closing; and

FIGURE 4 is an enlarged sectional view taken substantially along the line 4—4 of FIG. 2 as viewed in the direction indicated by the arrows.

Similar reference characters refer to similar parts throughout the several views of the drawing.

Referring now to the drawings in detail, the device of the instant invention comprises a base or platform **10** having a generally arcuate forward end **11** and supported by skids **12** which extend substantially the full length of the platform. The forward ends of the skids preferably terminate in tapered portions **13** to facilitate the sliding of the device along the ground. Base **10** is preferably constructed of a material such as fiber glass or molded plastic or the like and a ring towing connection **14** is permanently molded into the center of the arcuate front portion **11**.

A generally cylindrical upright building structure or body **18** is fixedly secured to the base in rigid relation in any desired conventional manner, and is provided with a vertical access opening extending the entire height thereof, the opening being generally indicated at **19**. An arcuate door **20** conforming in radius of curvature to the radius of the building is adapted to close the opening **19**, both the housing or building **18** in the door being constructed of fiber glass or similar lightweight rigid material.

The door is mounted at its upper extremity in a channel **22** and is provided with rollers **22***a* which move between the flanges **23** and **23***a* of the channel **22**.

A series of spacing elements **24** are positioned circumferentially about the top of housing or building **18** and serve to support a flat conical roof **25** in spaced relation to the top wall of the building in order to provide vent openings for ventilation purposes.

The lower portion of the platform is provided with an arcuate track forming channel **28** aligned with and corresponding to the upper channel **22**, and rollers **29** are carried by the lower portion of the door **20** operating in the channel **28**. Brackets **30** depending from the lower portion of the door serve to support the rollers **29**.

The opposed edges of the opening **19** are provided with facing members **32** and **33**, respectively, one of the facing members, **32**, having at least one recess therein in which is positioned a vertical rod **35** which carries a spring loaded rotatable reel **36**. A line **37** is secured by one end to and extends about reel **36** and has its free end extending through an aperture **38** in housing **13** and secured to the edge of the door by any suitable fastening member **39**. A torque spring **40** provides the spring bias for the reel, and has one of its ends secured in the base of the opening **34** as indicated at **34***a*, and the other of its ends secured to reel **36**, the arrangement being such as constantly to bias the string or cord wound about the reel **36** in a direction to close the door **19**. As indicated, the cord or line **37** is secured adjacent the top of the door so as not to interfere with ingress and egress to and from the building.

The building contains the usual facilities including a toilet bowl **43** having a seat **44** and a top **45** and a urinal **46** which is supported by a vent pipe **47** which extends upwardly through the top **25** so that any fumes normally occurring are vented to the atmosphere. Both the bowl **43** and urinal **46** contain any suitable liquid or semi-liquid chemical solution of well-known characteristics to dissolve and render odorless human excretion without the necessity of connection to a sewage system, or the necessity of running water in the building. Obviously, upon occasions where running water and connection to a sewage system is readily available, appropriate connections may be made both to the bowl **43** and the urinal **46** or the lower end of the vent pipe **47** for connection as may be desirable.

A rack **50** is provided on the inner wall of the housing **18** and has mounted therein one or more rolls of toilet tissue **51** as, for example, on a spindle **52**.

A slot **53** extends transversely across the platform **10** to facilitate the cleaning of the interior of the building **18**.

The safety factor inherent in a round structure of this type provides extra insurance against damage in strong winds created by man or by nature. Hurricanes, strong gusts, prop wash, and exhaust from jet aircraft have less of an effect on a streamlined structure of the present type than on the standard square type.

The sanitary features inherent in fiber glass should also be noted. Fiber glass is practically non porous, it is slick, and cleans extremely well. Water and cleaning materials apply with remarkable ease and flush off equally as well. Solids do not cling very readily to its slick surface.

From the foregoing it will now be seen that there is herein provided an improved portable round toilet building which accomplishes all the objects of this invention,

and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made in this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative, and not in a limiting sense.

I claim:

1. A portable toilet building comprising a platform, skids supporting said platform, a generally cylindrical housing having an opening mounted on said platform, a top for said housing, means intermediate said top and said housing providing ventilation, a door closing the opening of said housing, a series of rollers supporting said door and permitting linear movement thereof in a circular path, said platform having a track forming groove for receiving said rollers, a facing member along at least one side of the opening of said housing, at least one recess in said facing member, a rod located within said recess, a reel rotatably mounted on said rod, a line secured by one end to and carried by said reel and having its other end fastened to said door, a torque spring about said rod and having one end secured to said facing member and the other end secured to said reel whereby said torque spring will return said door to closed position when said door is released.

2. A portable toilet building comprising a platform, a generally cylindrical housing having an opening mounted on said platform, a top for said housing, an arcuate door normally closing the opening in said housing, a series of rollers supporting said door, said platform having a track forming groove for receiving said rollers, a facing member having a recess along one side of the opening of said housing, a rod located within said recess a reel rotatably mounted on said rod, flexible means secured by one end to and carried by said reel and having the other end thereof fastened to said door, spring means within said recess having one end secured to said facing member and the other end secured to said reel whereby said spring means will cause said reel to rotate and close said door when said door is released.

3. A portable toilet comprising a platform, a cylindrical housing having an opening fixedly mounted on said platform, an arcuate door closing the opening in said housing, roller means supporting said door, a member having a recess mounted on said housing, a rod located within the recess of said member, a reel rotatably mounted on said rod, flexible means secured at one end to and carried on said reel and having the other end thereof connected to said door, spring means within said recess having one end secured to said member and the other end secured to said reel to rotate said reel and bias said door to closed position.

4. The structure of claim 3 in which said platform has a cleaning slot substantially the width of said housing.

5. A portable toilet building comprising a platform, skids supporting said platform, a generally cylindrical housing having an opening mounted on said platform, a top for said housing, means intermediate said top and said housing providing ventilation, a toilet bowl positioned in said housing and extending transversely thereof, a vent pipe on said toilet bowl in communication with the interior thereof, said vent pipe extending vertically through the top of said housing and terminating outwardly thereof, a urinal formed integral with said vent pipe intermediate the ends thereof, a door closing the opening of said housing, a series of rollers supporting said door and permitting linear movement thereof in a circular path, said platform having a track forming groove for receiving said rollers, a facing member along at least one side of the opening of said housing, at least one recess in said facing member, a rod located within said recess, a reel rotatably mounted on said rod, a line secured by one end to and carried by said reel and having its other end fastened to said door, a torque spring about said rod and having one end secured to said facing member and the other end secured to said reel whereby said torque spring will return said door to closed position when said door is released, and portions of said platform within said housing defining a cleaning slot therethrough.

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