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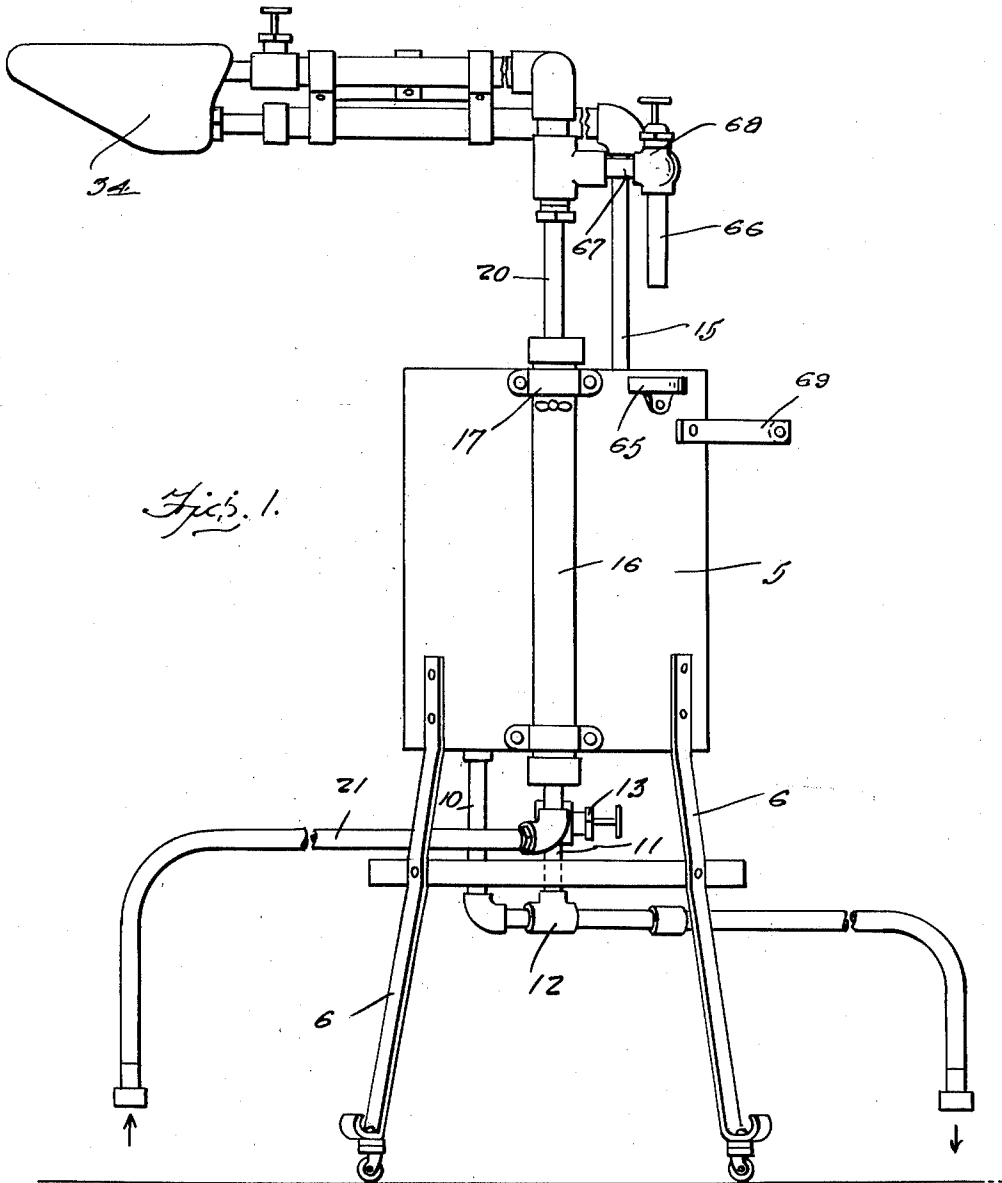
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COMMODE

Filed Nov. 22, 1928

4 Sheets-Sheet 1



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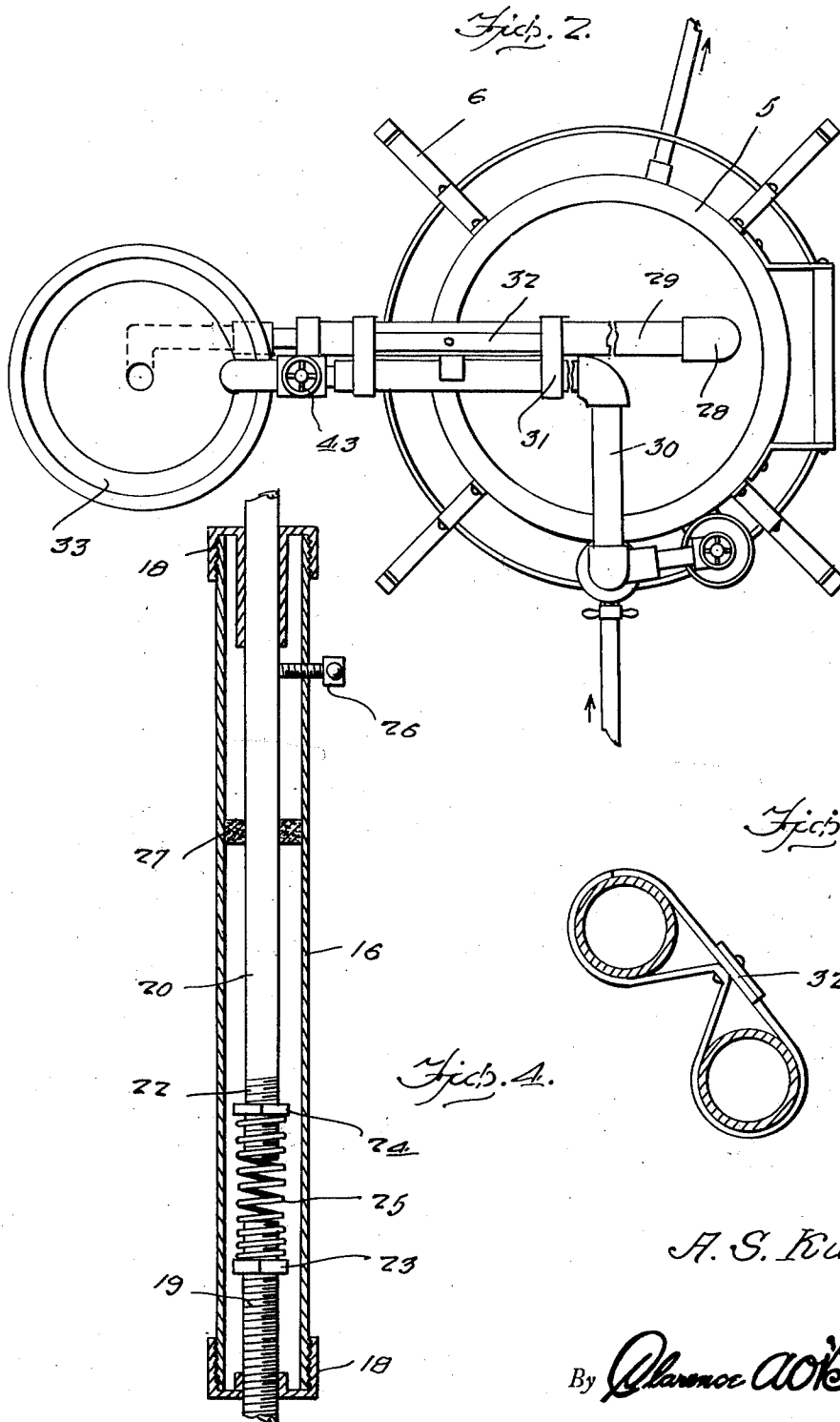
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4 Sheets-Sheet 2



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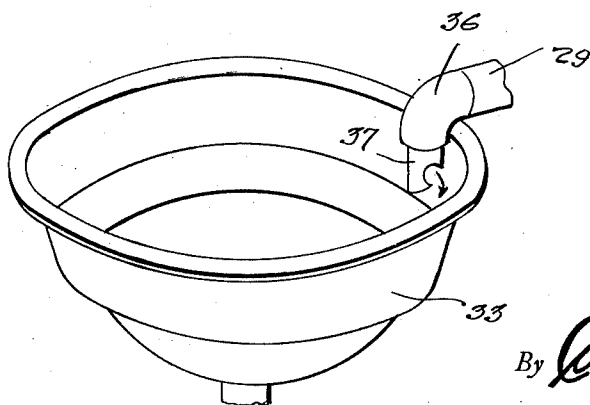
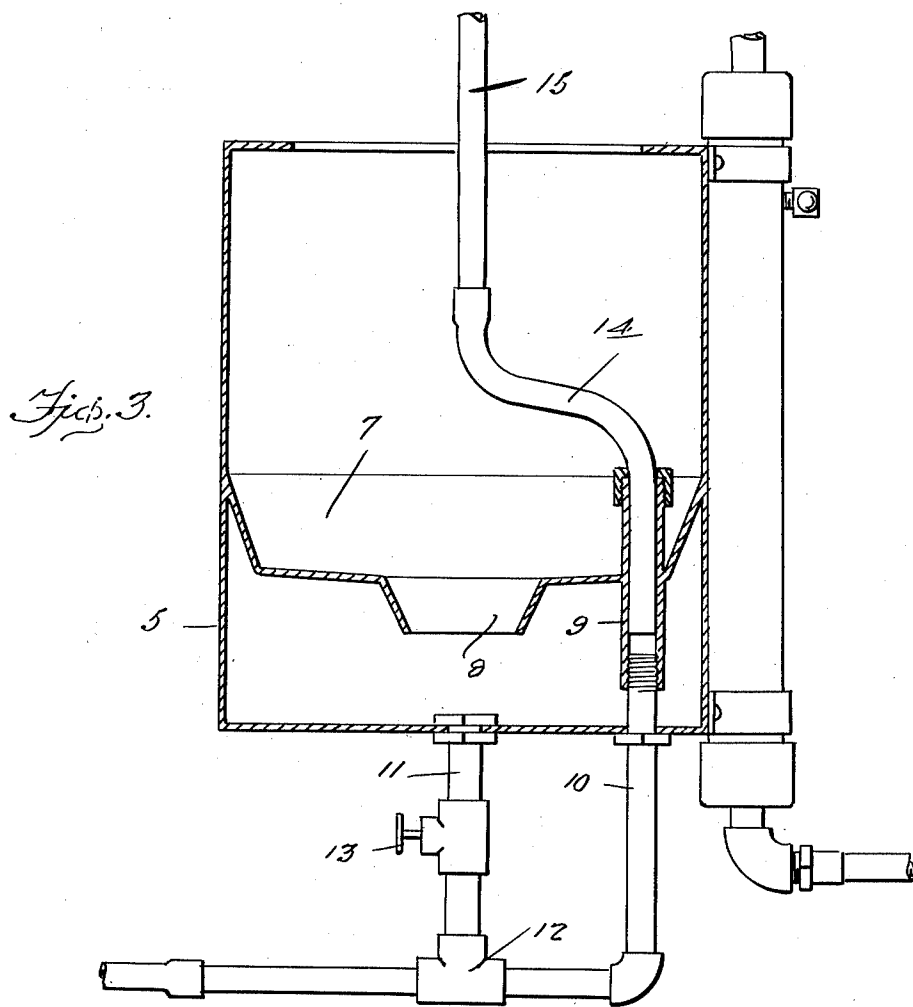
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4 Sheets-Sheet 3



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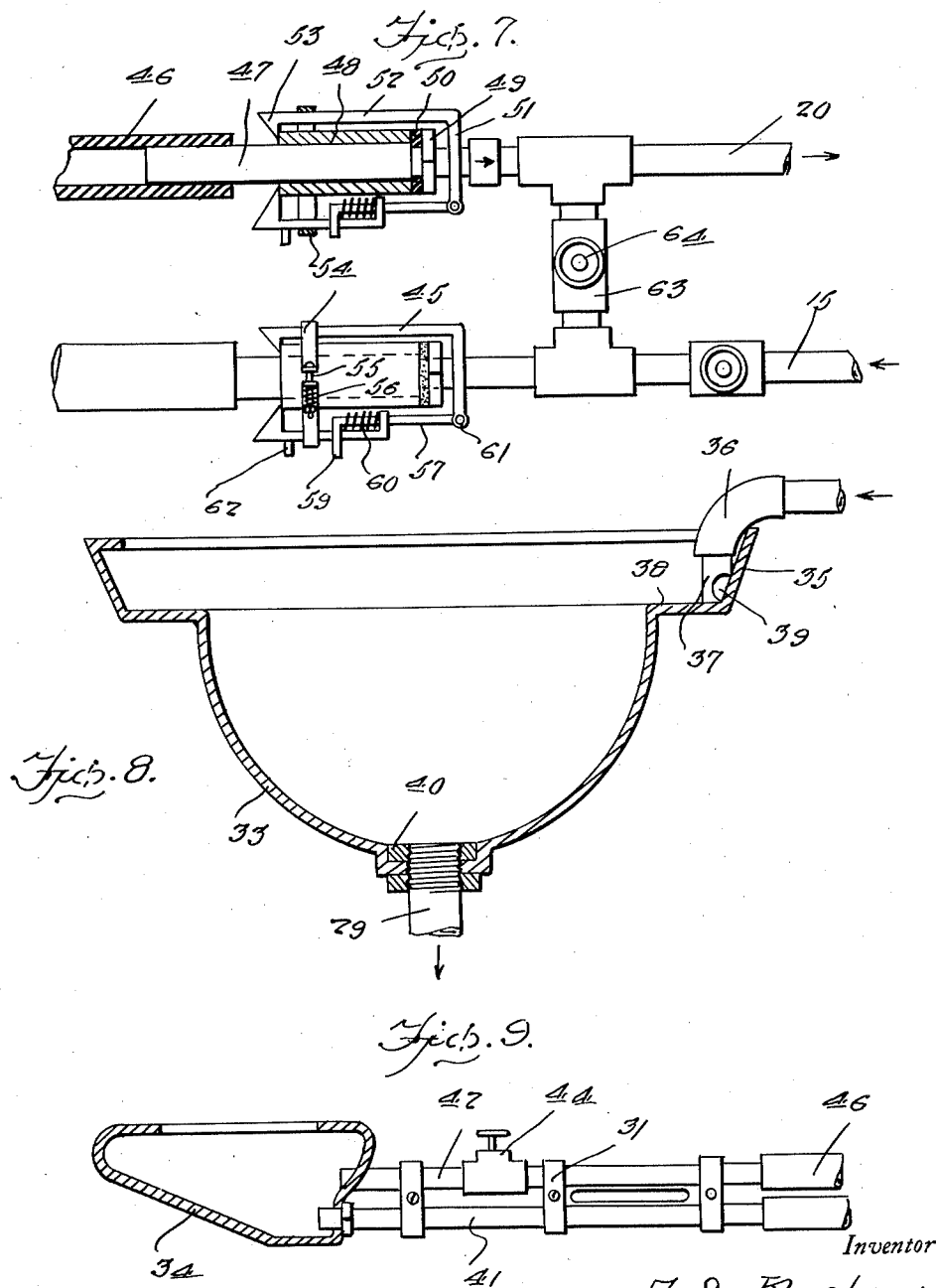
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UNITED STATES PATENT OFFICE.

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COMMODOE.

Application filed November 22, 1928. Serial No. 321,111.

The present invention relates to commodes and is designed particularly for use by bed-ridden persons and has for its principal object to provide a device of this character adapted for interchangeably supporting a bed pan or a spittoon for movement into and out of position by use by a person while resting in bed and connecting a drain pipe and water feed pipe therewith to flush the receptacle while in use.

A further object is to provide a stand for supporting the drain and water feed pipe in a desired position and embodying a wash basin as a part of the stand construction also having connection with said drain and water feed pipe.

A still further object is to provide novel adjustment means for said drain and water feed pipe by means of which the receptacles carried by the same may be secured in an adjusted position with respect to the person using the receptacles.

A still further object is to provide an apparatus of this character embodying simplicity of construction, which includes means for maintaining the apparatus in a sanitary condition while in use, which includes comfort for the person using the same and which is otherwise well adapted for the purposes for which the same is intended.

Figure 1 is a side elevational view of the apparatus assembled for use,

Figure 2 is a top plan view,

Figure 3 is a vertical sectional view through the wash basin, forming part of the invention,

Figure 4 is a vertical sectional view of the housing provided for adjustably supporting the sections of the water feed pipe,

Figure 5 is a perspective view of the spittoon, constituting one of the interchangeable receptacles for the apparatus,

Figure 6 is a transverse sectional view through the drain and water feed pipe illustrating the clamp for securing the same in spaced relation,

Figure 7 is a detail, with parts broken away and shown in section of the pipe coupling means,

Figure 8 is a sectional view through the spittoon, and

Figure 9 is a fragmentary elevational view of the support for interchangeably attaching the bed pan or spittoon to the drain and water feed pipe and with one of said receptacles shown in vertical section.

Referring now to the drawings in detail, for the purpose of illustration I have disclosed a preferred embodiment of the invention which includes a container 5 open at its upper end and supported upon legs 6 in an elevated position.

A basin 7 is secured to the inner walls of the container intermediate the top and bottom ends thereof, the outer edge of said basin being preferably cast integrally with the walls of the container, as clearly illustrated in Figure 3 of the drawings, said basin having its bottom portion provided with a central opening 8 by means of which the contents in the upper portion of the container may be drained into the lower portion thereof.

A tubular member 9 extends vertically through the bottom of the basin 7, the lower end of said tubular member having a pipe section 10 attached thereto and extended downwardly through the bottom of the container 5.

The central portion of the bottom of the container is also provided with a drain pipe 11 connected below the container with the pipe 10 by means of a T-coupling 12. A control valve 13 is arranged in the drain pipe 11 for controlling the draining of the liquid from the container.

A section of rubber hose 14 has one end fitted in the upper end of the tubular member 9, the opposite end of said hose being attached to a drain pipe 15 which extends upwardly through the opening in the top of the container 5.

A tubular housing 16 is disposed vertically at the outside of the container 5 and secured thereto by brackets 17, the upper and lower ends of said housing having caps 18 threadedly attached thereto, each of said caps being provided with central openings through which pipes 19 and 20 are inserted and extended respectively through the caps at the lower and upper ends of the housing.

The lower pipe 19 is externally threaded for threaded engagement with its associated cap and is connected outwardly of the housing by a water feed pipe 21 extending to a suitable source of supply under pressure.

The pipe 20 is slidably disposed in the opening in the upper cap and extends upwardly above the container in parallel relation with the drain pipe 15. The inner end of the pipe 20 is also threaded as shown at 22 and the adjacent threaded ends of the

pipes 19 and 20 are provided with nuts 23 and 24 threaded on the respective pipe.

An expansion spring 25 is arranged within the housing with its opposite ends disposed in engagement with the nuts 23 and 24 whereby to normally urge the pipe 20 upwardly out of engagement with the upper end of the pipe 19 as clearly illustrated in Figure 4 of the drawings.

A set screw 26 is threaded in the upper end of the housing 16 with its inner end disposed in engagement with the pipe 20 whereby to secure the same in vertically adjusted position within the housing.

A packing washer 27 is arranged about the pipe 20 within the housing to prevent water from entering the upper end of the housing. Elbows 28 are attached at the upper ends of each of the pipes 20 and 15 for connecting the horizontally disposed pipes 29 and 30 respectively thereto, said horizontally disposed pipes extending outwardly at one side of the container 5 and are secured in closely spaced relation by a pair of clamps 31.

The clamps are connected to each other by a rod 32 whereby to retain the clamps in spaced relation upon the pipe and also to provide a hand grip for raising or lowering said pipe. Any desired receptacle may be attached to the outer end of the pipes 29 and 30, such as for instance a spittoon shown at 33 in Figures 2, 5 and 8 of the drawings or a bed pan 34 as shown in Figures 1 and 9.

When having the spittoon 33 attached at the ends of the pipes, the pipe 30 connected with the water feed pipe 21 extends over the upper edge 35 of the spittoon, as clearly illustrated in Figure 8 of the drawing and is provided with an elbow 36 for attaching a nozzle 37 thereto for extending downwardly within the receptacle.

A shoulder 38 is formed in the inner wall of the spittoon 33 immediately below the upper edge thereof and the nozzle 37 has its discharge port 39 formed at one side thereof for directing the water against the wall of the spittoon immediately above the shoulder 38.

The pipe 29, which is connected with the drainage system of the apparatus is extended upwardly through an opening formed in the bottom of the spittoon and secured in position therein by retaining nuts 40.

The drain and water feed pipes used in connection with the bed pan 34 are arranged in superposed relation with the drain pipe shown at 41 disposed lowermost and connected with the bed pan adjacent the bottom thereof whereas the water feed pipe 42 enters the side of the pan slightly above the drain pipe.

The water feed pipes are provided for both the spittoon and the bed pan and have con-

trol valves 43 and 44 respectively interposed therein.

The water feed and drain pipe sections disposed immediate adjacent the spittoon and the bed pan are adapted to be interchangeably connected with the drain and feed pipe 20 and 15 respectively by means of clamping members shown generally at 45 in Figure 7 of the drawings.

The connection for the pipe includes a relatively short section of hose 46 provided for each of the pipes attached to the spittoon and the bed pan and with the opposite end of the hose extended over a short pipe section 47.

A sleeve 48 is threaded or otherwise fixedly secured on the outer end of the pipe section 47, one end of the sleeve terminating in a plane with the outer end of said pipe section.

The pipe section 47 is of a relatively larger diameter than either the pipe 15 or 20 permitting the same to extend one within the other if desired. The end of the smaller pipe is provided with a nut 49 threaded thereon forming an abutment for the end of the sleeve 48 with a washer 50 interposed therebetween to prevent leakage at the connection thus formed.

The clamping member 45 is of a substantially U-shaped formation with its intermediate section formed into a ring 51 through which the end of either of the permanent pipes 15 and 20 is inserted and with the parallel arms 52 of the clamp extending at opposite sides of the sleeve 48.

The ends of the arms 52 are formed into hooks 53 for engaging the end of the sleeve remote from the permanent pipe. A split collar 54 is fitted over the free ends of the arms 52 having its split ends connected by a bolt 55 upon which a spring 56 is arranged to permit the spreading apart of the ends of the collar for releasing the arms of the clamp through the outward movement thereof.

One of the arms of the clamp is composed of a pair of longitudinally extending sections 57 and 58 slidably connected with each other by means of guides 59 formed at the adjacent ends of said sections, said guides having a spring 60 interposed therebetween yieldably urging the sections in outwardly extended relation. The arm section 57 is pivotally connected at 61 to one end of the intermediate section of the clamp.

The outermost arm 58 is provided with a lug 62 constituting a finger grip by means of which the section of the arm may be grasped and extended outwardly for releasing the arm from clamping position.

It will be apparent that by reason of such construction that the respective water feed and drain pipes of the various receptacles be easily and quickly secured in position to their associated pipes 15 and 20 to provide a

proper connection for the receptacles with the water feed and drain systems of the apparatus.

The permanent drain and water feed pipes 15 and 20 respectively may be connected to each other in advance of their connection with the receptacles 33 and 34 by a pipe 63 having a control valve 64.

A shelf 65 is secured to the container 5, adjacent its upper edge suitable for supporting a drinking glass or similar small receptacle and immediately above said shelf is arranged a nozzle 66 having connection with the water feed pipe 20 through a pipe section 67 and within which a control valve 68 is arranged.

The container 5 is also provided with the handle 69 to facilitate movement from place to place.

It will be apparent from the foregoing that the apparatus constructed in accordance with my invention is admirably adapted for use in sick rooms or the like, the container 5 being adapted to hold a suitable quantity of water for the sponging or bathing of the patient and the spittoon 33 or bed pan 34 may be interchangeably connected with the permanent drain and water feed pipe of the device and moved into a convenient position for use by the patient.

The water feed and drain pipe extending above the container may be adjusted vertically by reason of the manner of slidably mounting the water feed pipe 20 in the housing 16 and by reason of connecting the sections of the drain pipe through the flexible hose 14.

It is obvious that my invention is susceptible to various changes and modifications in construction without departing from the spirit of the invention or the scope of the appended claims, and I accordingly claim all such forms of the device to which I am entitled.

Having thus described my invention, what I claim as new is:

1. A device of the class described comprising a container having its upper end open and having a drain pipe attached at its lower end, a water feed pipe supported by the container and extending upwardly therefrom, a receptacle detachably connected at the upper end of said water feed pipe, a drain pipe for the receptacle extending downwardly through the container and having a flexible section interposed therein, said water feed pipe constituting a support for the receptacle and means for vertically adjusting said water feed pipe, said adjusting means comprising a tubular housing secured to the container having sections of the water feed pipe extended into the opposite ends thereof and means within the container yieldably connecting the adjacent ends of said pipe sections.

2. A device of the class described comprising a container having its upper end open and having a drain pipe attached at its lower end, a water feed pipe supported by the container and extending upwardly therefrom, a receptacle detachably connected at the upper end of said water feed pipe, a drain pipe for the receptacle extending downwardly through the container and having a flexible section interposed therein, said water feed pipe constituting a support for the receptacle and means for vertically adjusting said water feed pipe, said means comprising a tubular housing secured in vertical position to said container with sections of the water feed pipe extended through the opposite ends thereof, one of said pipe sections being slidably disposed within the housing and the other of said pipe sections being fixedly secured thereto, spring means interposed between the adjacent ends of said pipe sections yieldably maintaining the same in spaced relation and means carried by the housing engageable with said slidably mounted pipe section for securing the same in adjusted position.

3. A device of the class described comprising a container having its upper end open and having a drain pipe attached at its lower end, a water feed pipe supported by the container and extending upwardly therefrom, a receptacle detachably connected at the upper end of said water feed pipe, a drain pipe for the receptacle extending downwardly through the container and having a flexible section interposed therein, said water feed pipe constituting a support for the receptacle and means for vertically adjusting said water feed pipe, said means comprising a tubular housing secured in a vertical position to said container, caps attached at the opposite ends of said housing having central openings formed therein and adapted for the insertion of adjacent sections of the pipe therethrough, the uppermost cap having its associated pipe section slidably inserted therethrough and the lowermost cap having its associated pipe section threaded therein, spring means engaging the inner ends of said pipe sections for yieldably retaining the same in spaced relation, a packing washer arranged in the housing and interposed between the upper cap and the inner end of the uppermost pipe section and a set screw carried by the housing with its inner end engageable with the slidable pipe section for securing the same in vertically adjusted position.

4. A device of the class described comprising a container having its upper end open and provided with a drain pipe attached to its lower end, a water feed pipe attached to said container and extending upwardly therefrom, said pipe including a pair of vertically adjustable sections, means

for securing one of said sections in vertically adjusted position to the container, a drain pipe extending vertically entirely through said container and having a flexible section interposed therein, a receptacle disposed above the container having water feed and drain pipes extending therefrom and means for detachably connecting said adjustable feed pipe and said first named drain pipe to the respective water feed and drain pipes carried by the container. 10

In testimony whereof I affix my signature.

ANDREW S. KUSHNER.