



US 20100319119A1

(19) **United States**

(12) **Patent Application Publication**  
**Wu**

(10) **Pub. No.: US 2010/0319119 A1**

(43) **Pub. Date: Dec. 23, 2010**

(54) **MOVABLE SINK**

**Publication Classification**

(76) Inventor: **Shih-Feng Wu**, Longtan Township  
(TW)

(51) **Int. Cl.**  
**E03C 1/32** (2006.01)

(52) **U.S. Cl.** ..... 4/643

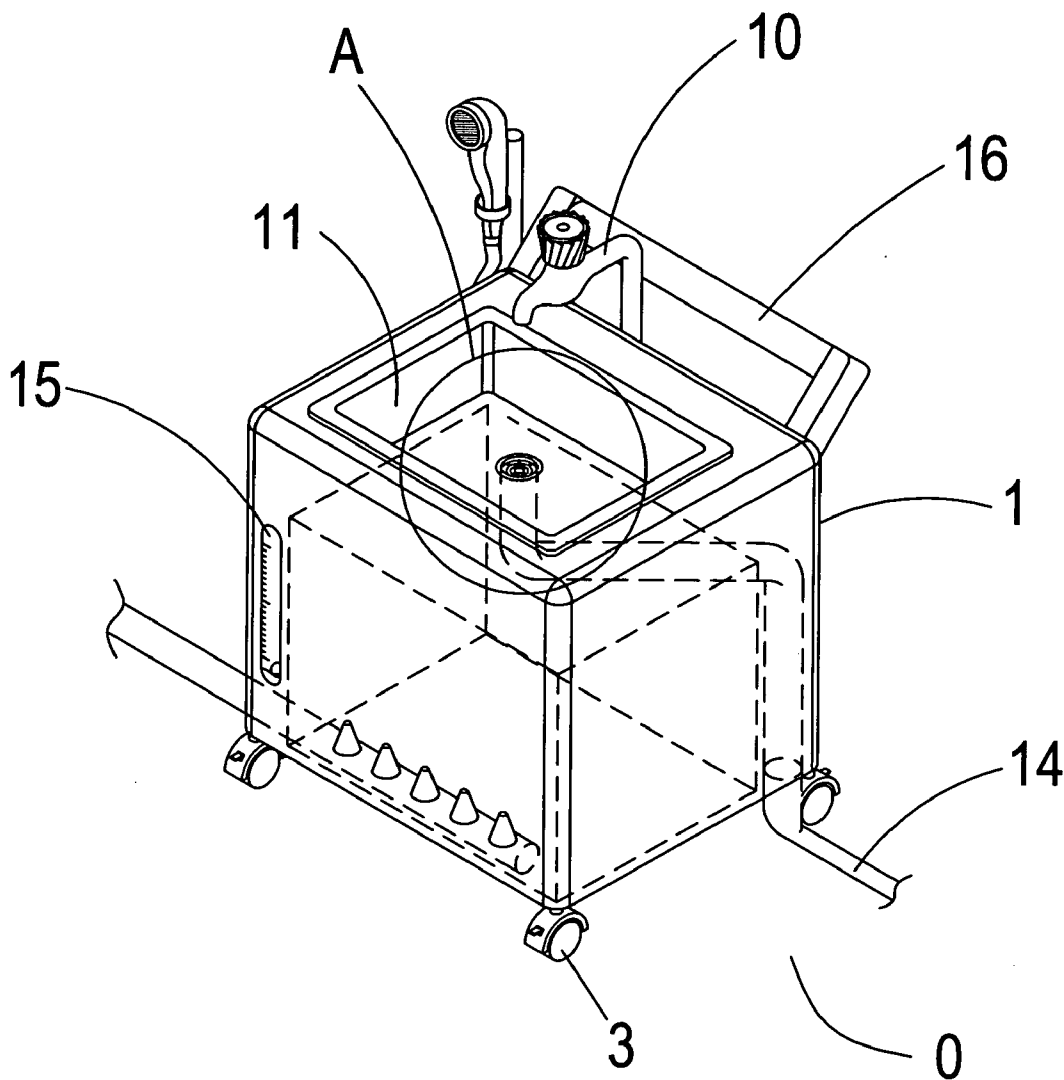
(57) **ABSTRACT**

Correspondence Address:  
**Muncy, Geissler, Olds & Lowe, PLLC**  
**4000 Legato Road, Suite 310**  
**FAIRFAX, VA 22033 (US)**

A movable sink is provided with a body which is connected with a discharge element. The movable sink also includes at least one sink and one moving device, and the sink is located inside the body and is provided with an inlet and an outlet. The outlet is connected to the discharge element, and the moving device is located at a bottom of the body. After a water supply has been replenished from the inlet, the movable sink can be moved to any place to provide the water supply by the moving device.

(21) Appl. No.: **12/068,541**

(22) Filed: **Feb. 7, 2008**



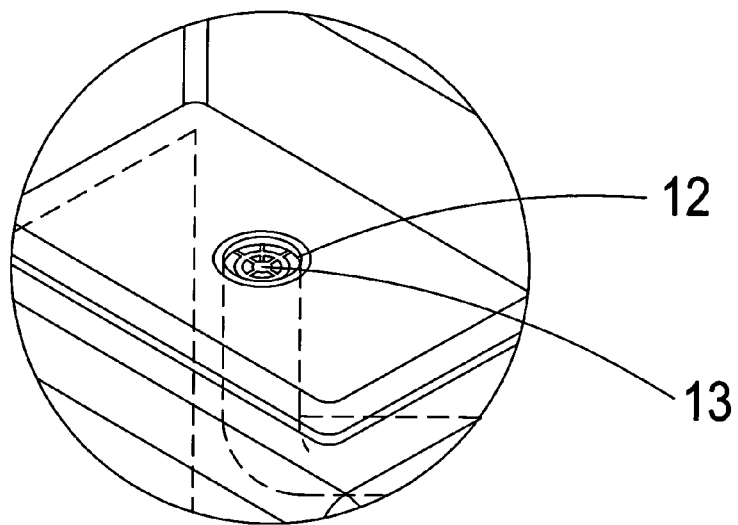
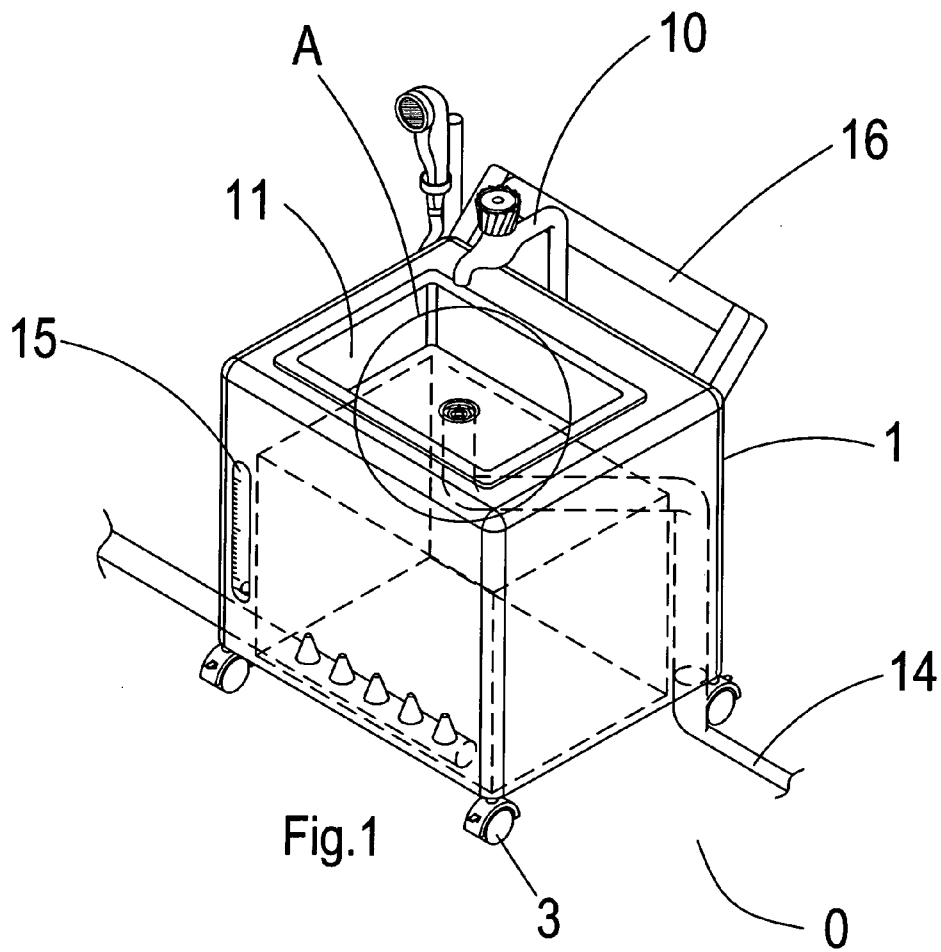


Fig. 1A

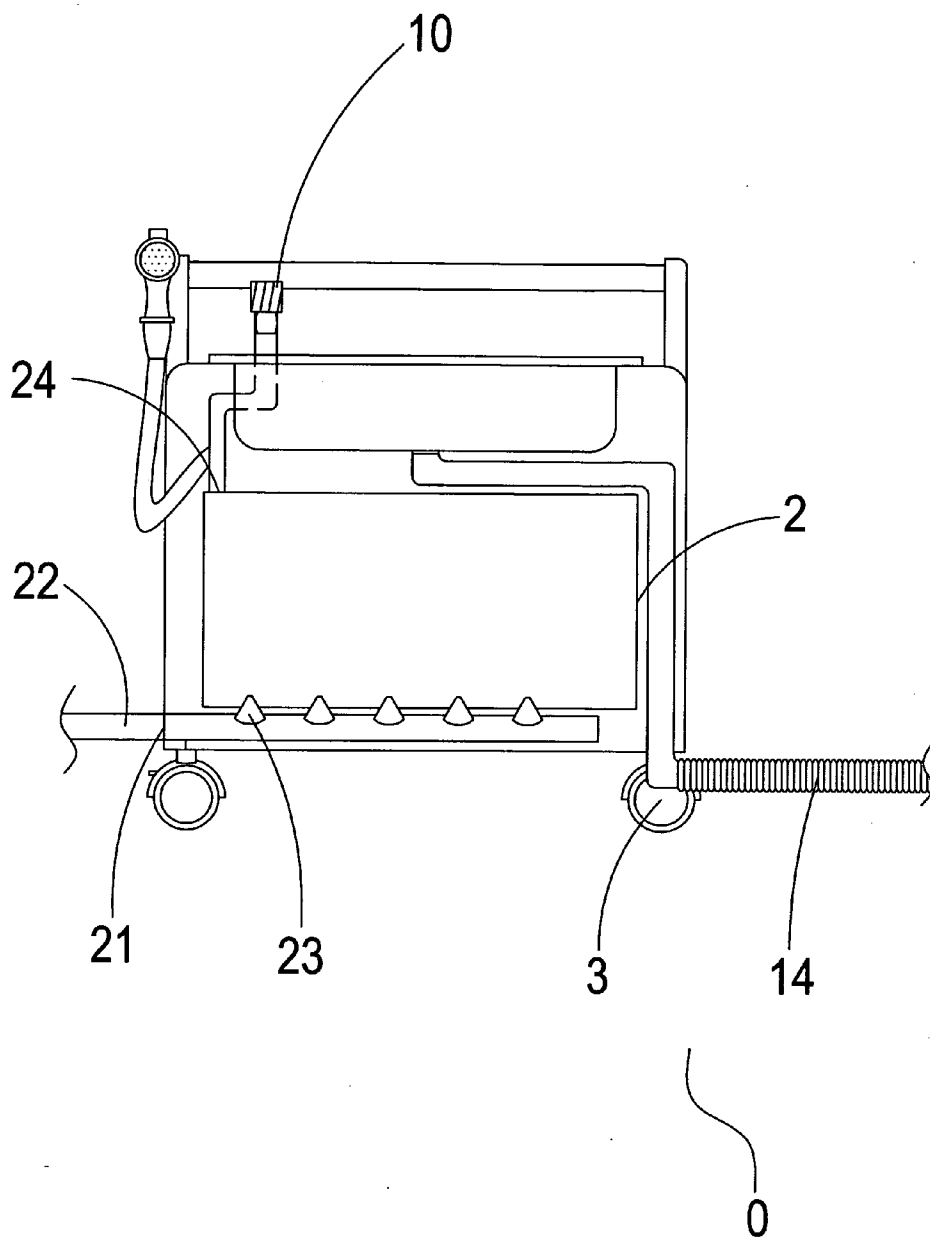


Fig. 2

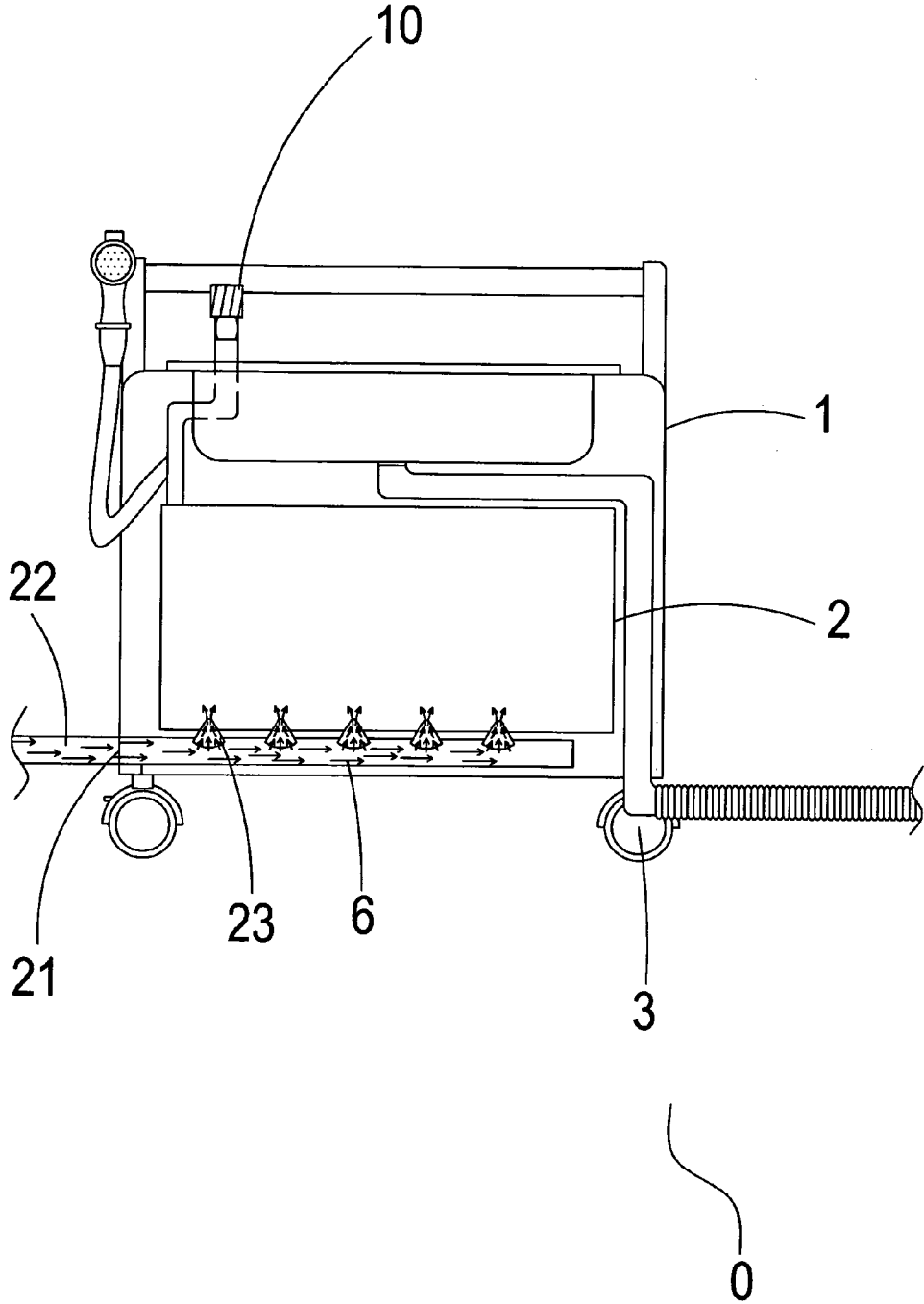


Fig. 3

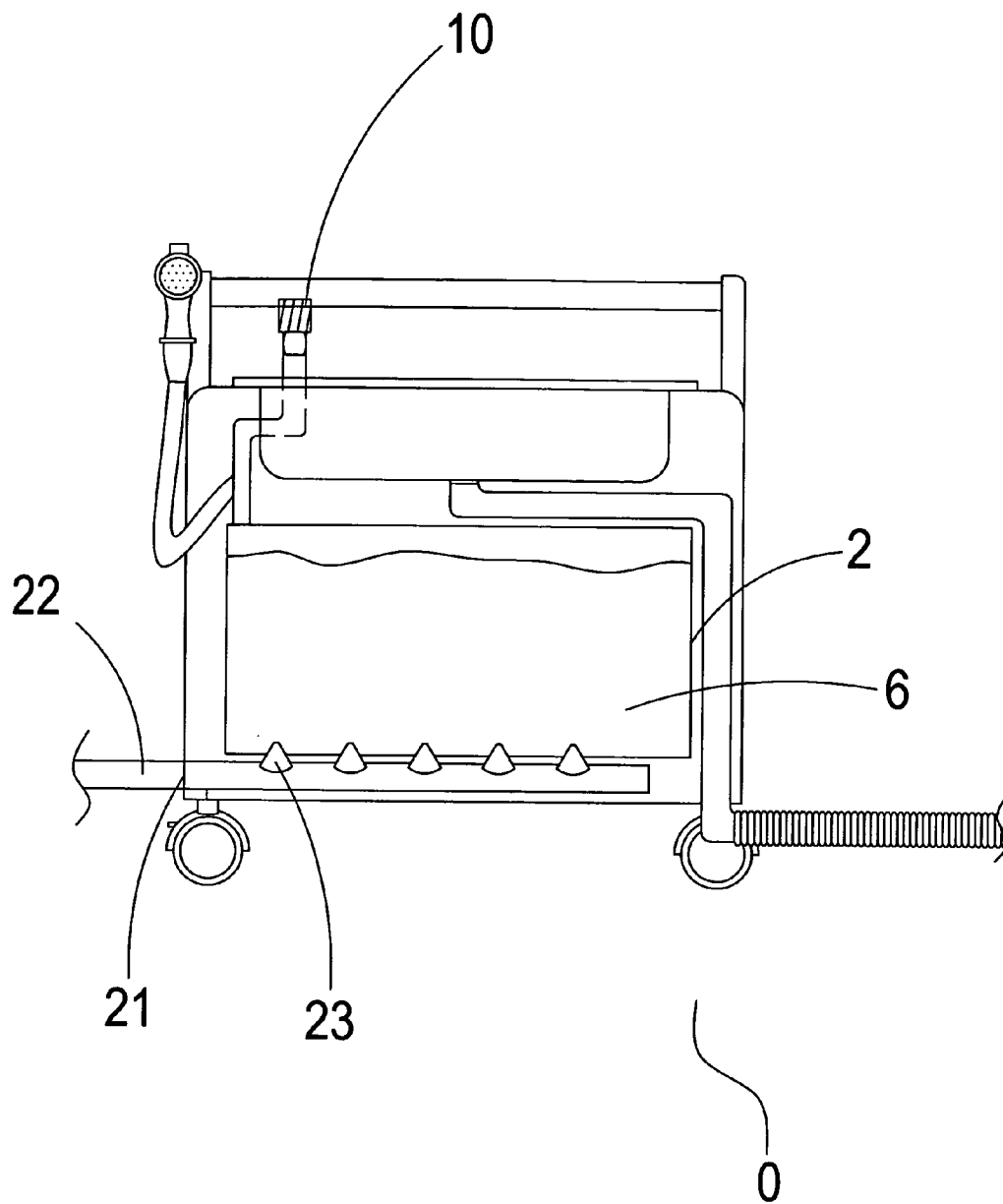


Fig. 4

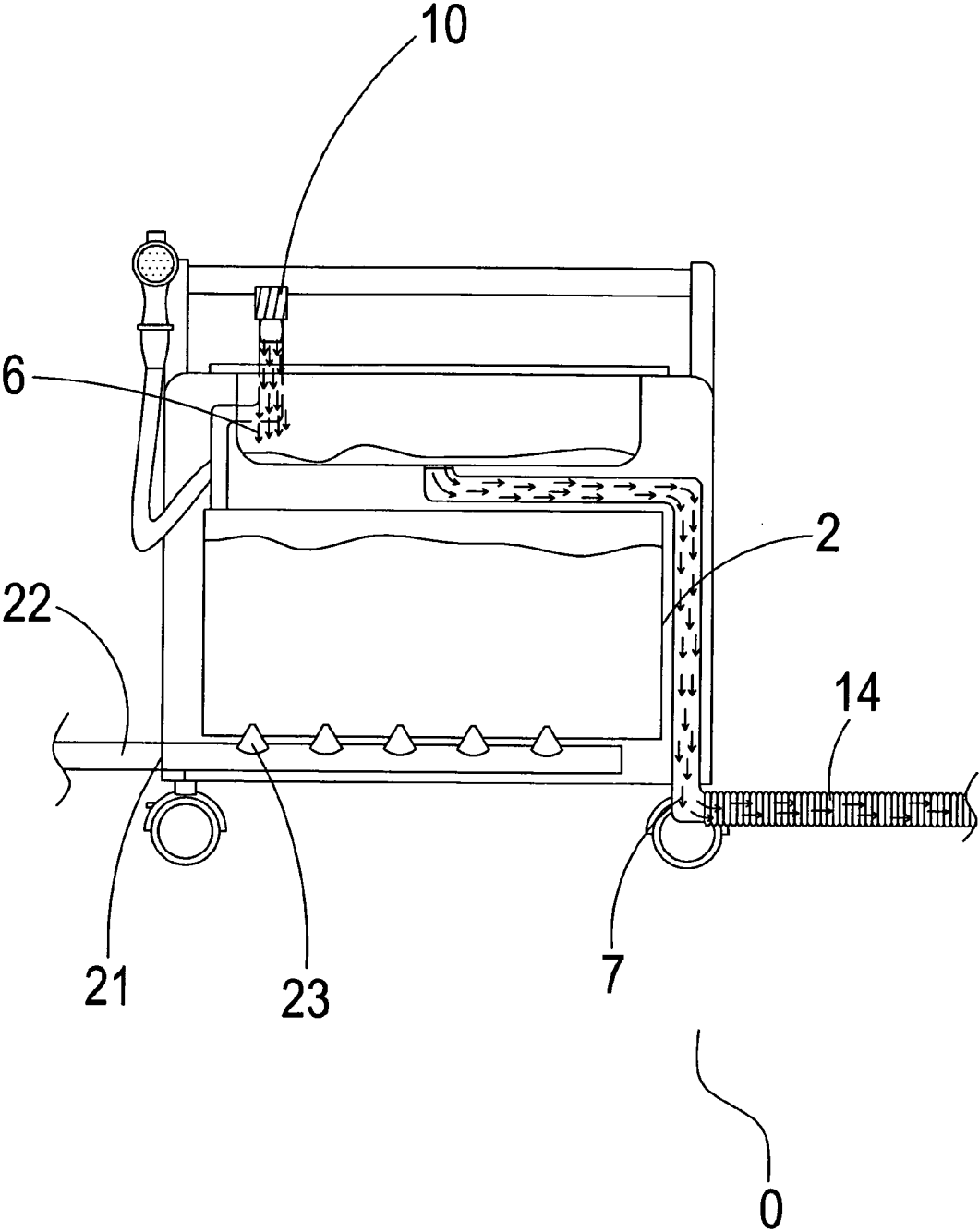


Fig. 5

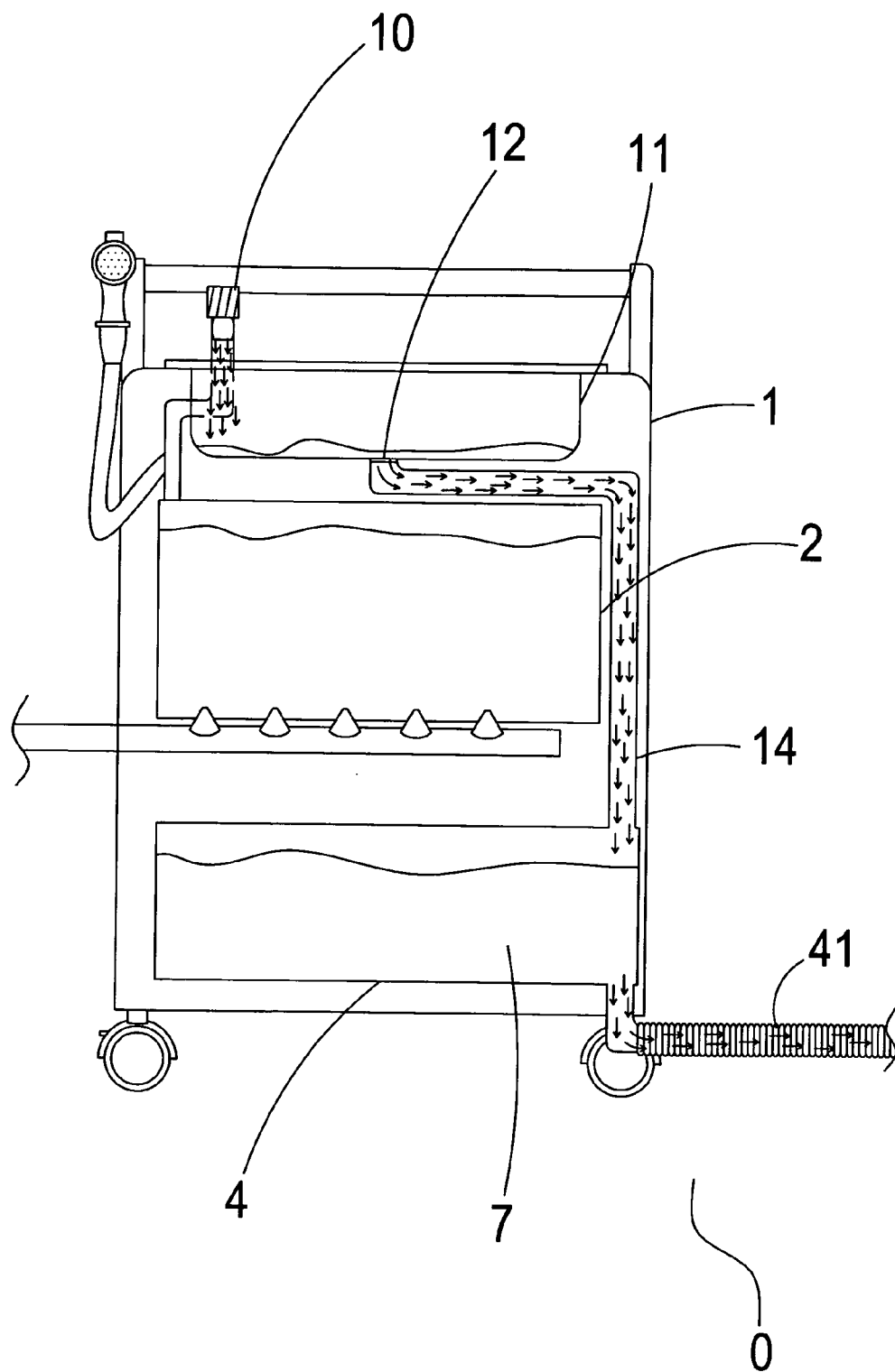


Fig. 6

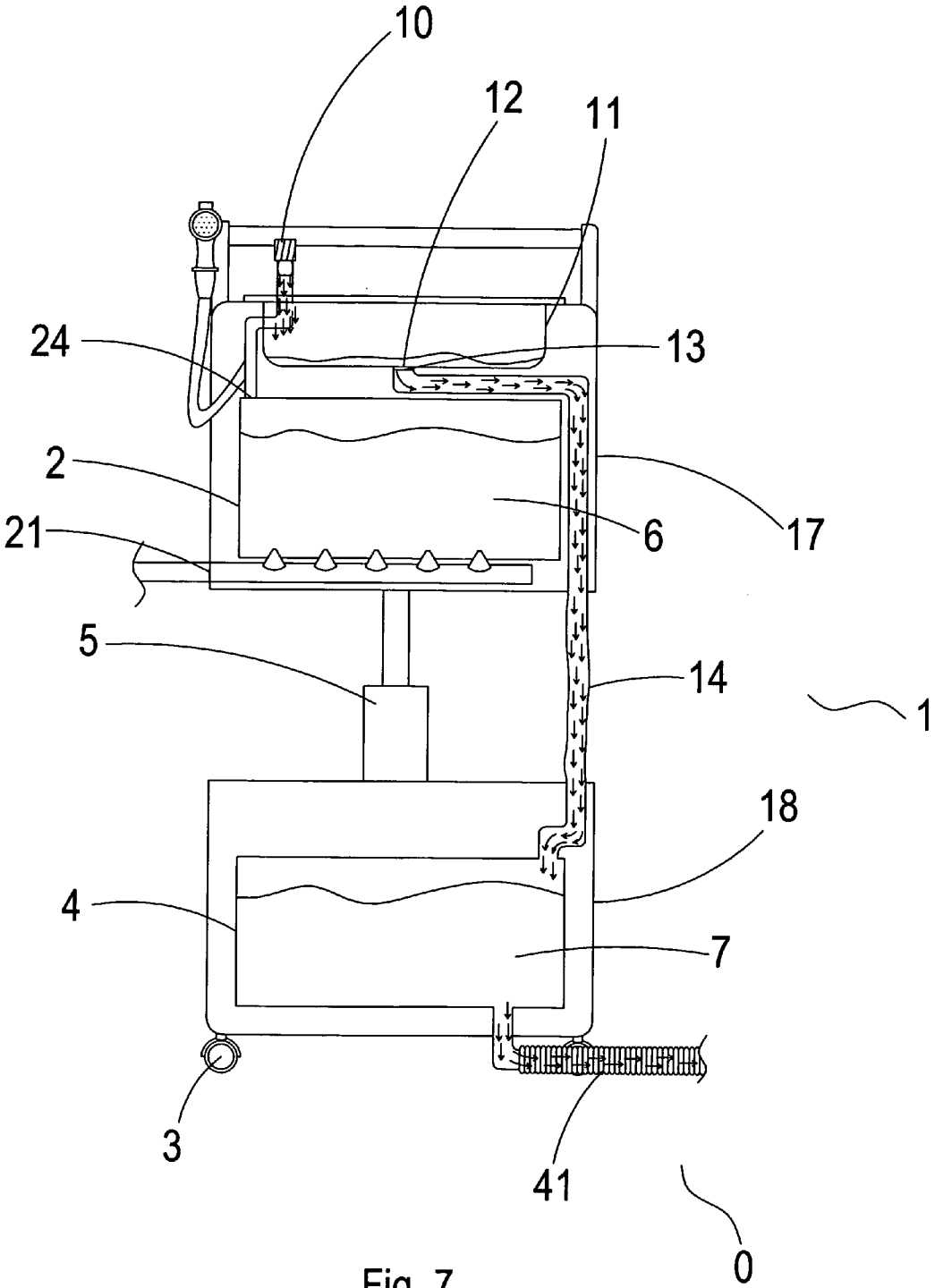


Fig. 7



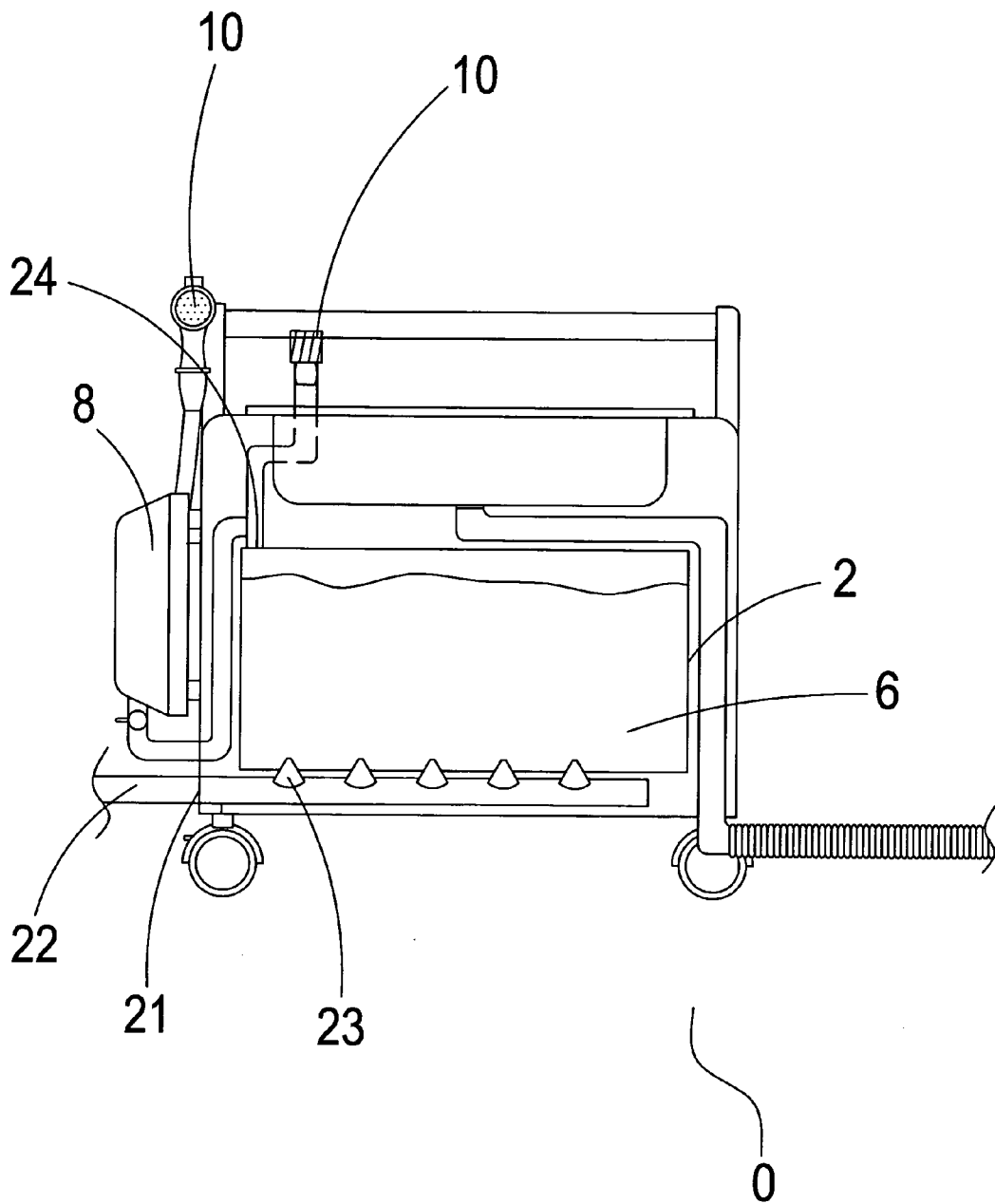


Fig. 8

**MOVABLE SINK**

**BACKGROUND OF THE INVENTION**

[0001] a) Field of the Invention The present invention relates to a movable sink, and more particularly to a movable sink which can be moved to any position conveniently.

[0002] b) Description of the Prior Art

[0003] In general, when people wash their bodies or use fresh water to clean their faces or hairs, they will need a basin and a discharge element, such as a shower head or a faucet. However, conventional water supply equipment is usually fixed at a fixed location such as a bathroom or a kitchen, and if that place needs the water supply, then that place should be fixed with the water supply equipment.

[0004] Nevertheless, following issues and shortcomings actually exist upon using the aforementioned water supply equipment.

[0005] As the existing water supply equipment is connected with a water pipe for supplying the water, this kind of equipment should be fixed at a proper site and cannot be relocated or moved freely. Therefore, for a physically challenged person, such as a pregnant woman, an elder, or even a patient who lies in a bed, it is not convenient to use the water supply equipment. In particular, inconvenience in acquiring a clean water supply at a medical institute, a nursing house, or a nursery school, is even an issue to be solved by a related nursing staff.

[0006] Accordingly, how to resolve the aforementioned issues and shortcomings of the prior art is a subject of improvement to be developed by the present inventor and related industries.

**SUMMARY OF THE INVENTION**

[0007] The primary object of the present invention is to provide a movable sink which includes a body. The body is connected with a discharge element, and is composed of at least one sink in the body. The sink is provided with an inlet and an outlet, the outlet is connected to the discharge element, and a bottom of the body is provided with a moving device. When the sink is filled with water from the inlet, it can be moved to any place to supply the water by the moving device. Therefore, by the aforementioned technology, the issue that the conventional water supply device cannot be moved can be broken through, thereby achieving practicability and advancement that the sink can be moved to any place conveniently.

[0008] To enable a further understanding of the said objectives and the technological methods of the invention herein, the brief description of the drawings below is followed by the detailed description of the preferred embodiments.

**BRIEF DESCRIPTION OF THE DRAWINGS**

[0009] FIG. 1 shows a perspective view of a preferred embodiment of the present invention.

[0010] FIG. 1A shows a local schematic view of a preferred embodiment of the present invention.

[0011] FIG. 2 shows a cutaway view of a preferred embodiment of the present invention.

[0012] FIG. 3 shows a schematic view of a preferred embodiment of the present invention.

[0013] FIG. 4 shows a second schematic view of a preferred embodiment of the present invention.

[0014] FIG. 5 shows a third schematic view of a preferred embodiment of the present invention:

[0015] FIG. 6 shows a schematic view of another preferred embodiment of the present invention.

[0016] FIG. 7 shows a schematic view of still another preferred embodiment of the present invention.

[0017] FIG. 8 shows a schematic view of yet another preferred embodiment of the present invention.

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

[0018] Referring to FIG. 1, FIG. 1A and FIG. 2, it shows a perspective view, a local schematic view and a cutaway view of a preferred embodiment of the present invention, wherein a movable sink 0 of the present invention comprises a body 1 which is connected to a discharge element 10 and a basin 11, the discharge element 10 can be a shower head, a faucet, a sprinkler, or a water pipe, and the basin 11 is provided with a drain hole 12 which is provided with a filtering net 13 and is connected with a soft pipe 14. The movable sink 0 also includes at least one sink 2 which is installed in the body 1 and is provided with an inlet 21 and an outlet 24, with the inlet 21 being connected with an inlet pipe 22 disposed with at least one nozzle 23 that is connected with a bottom of the sink 2 and is converging toward the bottom of the sink 2, and the outlet 24 being connected to the discharge element 10; and a moving device 3, which is located at a bottom of the body 1 and can be a roller set, a tire set, or a pulley set, such that by the installation of the moving device 3, the movable sink 0 can be moved to any place.

[0019] Moreover, the body 1 is provided with a level indicator 15 which is connected with the sink 2, and an outer wall of the body 1 is provided with a push bar 16, such that water content can be monitored at any time, and the movable sink 0 can be moved conveniently.

[0020] Referring to FIGS. 3 to 5, it shows a first schematic view, a second schematic view, and a third schematic view of a preferred embodiment of the present invention. When the aforementioned parts are operating, a clean water supply 6 is replenished from the inlet 21 to flow into the sink 2 through the inlet pipe 22 which is deployed with at least one nozzle 23 that is connected with the bottom of the sink 2 and is gradually converging toward the bottom of the sink 2. By the converging structure of the nozzle 23, a water pressure will be increased when the clean water supply 6 flows into the sink 2, thereby increasing an air pressure inside the sink 2. When the sink 2 is filled with the clean water supply 6, the inlet 21 is closed. Accordingly, if the movable sink 0 needs to be used, as the air pressure inside the sink 2 is greater than an air pressure at an ambient space, when the discharge element 10 is opened, a force will be resulted by the sink 2 to force the clean water supply 6 to flow out toward the discharge element 10, enabling the discharge element 10 to have a proper discharge pressure. In addition, as the bottom of the body 1 is provided with the moving device 3, the movable sink 0 can be conveniently moved to any place to provide the clean water supply 6.

[0021] Referring to FIG. 6, it shows a schematic view of another preferred embodiment of the present invention. The body 1 is further provided with a sewage sink 4 which is connected with the soft pipe 14 and a sewage pipe 41, allowing a used sewage 7 to flow into the drain hole 12 of the basin 11, and then flow into the sewage sink 4 for storage, through

the soft pipe 14. On the other hand, when the sewage 7 needs to be discharged, the sewage 7 can flow out of the body 1 through the sewage pipe 41.

[0022] Referring to FIG. 7, it shows a schematic view of still another preferred embodiment of the present invention. The body 1 of the movable sink 0 of the present invention is further divided into an upper body 17 and a lower body 18, wherein an interior of the upper body 17 is emplaced with the sink 2, the lower body 18 is connected with the moving device 3, and an elevating device 5 is connected between the upper body 17 and the lower body 18. The elevating device 5 can be an air pressure elevating device, a hydraulic pressure elevating device, or a threaded elevating device. The upper body 17 is provided with the basin 11 which is disposed with the drain hole 12 on which is installed with the filtering net 13 and is connected with the soft pipe 14. An interior of the lower body 18 is emplaced with the sewage sink 4 which is connected to the soft pipe 14 and the sewage pipe 41. When being needed, the clean water supply 6 will be replenished from the inlet 21, and then will flow into the discharge element 10 for discharging through the outlet 24; whereas, the sewage 7 will flow into the sewage sink 4 for storage through the drain hole 12 to the soft pipe 14. When the sewage 7 needs to be discharged, the sewage 7 can flow out of the body 1 through the sewage pipe 41, and the body 1 can be adjusted to any height by the elevating device 5 to provide the clean water supply 6.

[0023] Referring to FIG. 8, it shows a schematic view of yet another preferred embodiment of the present invention. The outlet 24 can be further connected with a water heater 8 which is connected to the discharge element 10. After the sufficient clean water supply 6 has been replenished from the inlet 21, the clean water supply 6 can flow into the water heater 8 from the outlet 24 to increase temperature in advance, and then flow out of the discharge element 10. By the water heater 8, the body 1 can be moved to any place conveniently to supply hot water.

[0024] Accordingly, upon using, the present invention is indeed provided with following advantages in comparison with the prior art.

[0025] The movable sink 0 of the present invention is provided with the body 1 which is connected with the discharge element 10 and includes at least one sink 2 and the moving device 3. The sink 2 is located inside the body 1 and is provided with the inlet 21 and the outlet 24. The outlet 24 is connected to the discharge element 10, and the moving device 3 is located at the bottom of the body 1. The moving device 3 can be the roller set, the tire set, or the pulley set. After the clean water supply 6 has been replenished from the inlet 21, the clean water supply 6 is transported to the discharge element 10 for discharging by the sink 2 using a principle of air pressure, and the movable sink 0 of the present invention can be moved to any place by the moving device 3, to provide the clean water supply 6.

[0026] It is of course to be understood that the embodiments described herein is merely illustrative of the principles

of the invention and that a wide variety of modifications thereto may be effected by persons skilled in the art without departing from the spirit and scope of the invention as set forth in the following claims.

What is claimed is:

1. A movable sink comprising a body which is connected with a discharge element and includes at least one sink installed in the body, with the sink being provided with an inlet and an outlet, and the outlet being connected to the discharge element; and a movable device which is located at a bottom of the body, so as to move the movable sink to any place.

2. The movable sink according to claim 1, wherein the body is provided with a basin which is disposed with a drain hole on which is installed with a filtering net and is connected with a soft pipe.

3. The movable sink according to claim 1, wherein the inlet is connected with an inlet pipe which is deployed with at least one nozzle, with the nozzle being connected at a bottom of the sink and gradually converging toward the bottom of the sink.

4. The movable sink according to claim 1, wherein the moving device is a roller set, a tire set, or a pulley set.

5. The movable sink according to claim 1, wherein the body is provided with a level indicator which is connected with the sink.

6. The movable sink according to claim 1, wherein an outer wall of the body is provided with a push bar.

7. The movable sink according to claim 1, wherein the discharge element is a shower head, a faucet, or a sprinkler.

8. The movable sink according to claim 2, wherein an interior of the body is further provided with a sewage sink which is connected with the soft pipe and a sewage pipe.

9. The movable sink according to claim 1, wherein the body is further divided into an upper body and a lower body, with the upper body being emplaced with the sink, the lower body being connected with the moving device, and an elevating device being connected between the upper body and the lower body.

10. The movable sink according to claim 9, wherein the upper body is provided with a basin having a drain hole on which is disposed with a filtering net and is connected with a soft pipe.

11. The movable sink according to claim 9, wherein elevating device is an air pressure elevating device, a hydraulic pressure elevating device, or a threaded elevating device.

12. The movable sink according to claim 10, wherein an interior of the lower body is further emplaced with a sewage sink which is connected with the soft pipe and a sewage pipe.

13. The movable sink according to claim 1, wherein the outlet is further connected with a water heater which is connected to the discharge element.

14. The movable sink according to claim 9, wherein the outlet is further connected with a water heater which is connected to the discharge element.

\* \* \* \* \*