

A MULTI-STATION MEDICAL HAND-WASHING STATION

Utility Model Patent — English Translation

English translation prepared for reference only. In case of any discrepancy, the original Chinese patent publication (CN 209003741 U) shall prevail.

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(57) ABSTRACT

The present utility model provides a multi-station medical hand-washing station, comprising a base, a hand-washing basin body fixed on the base, and a mirror frame fixed on the hand-washing basin body. n water faucets are fixed on a side wall of the hand-washing basin body adjacent to the mirror frame, n being an integer greater than or equal to 2. A side wall of the hand-washing basin body away from the mirror frame comprises a plurality of receding grooves and partitioning protrusions arranged alternately, n receding grooves being provided, and the receding grooves matching the water faucets. A mirror is fixed on the mirror frame. The present utility model is provided with a special position-limiting structure capable of effectively controlling the standing positions of all hand-washing persons, and at the same time effectively separating the hand-washing persons so that a distance within a certain range is maintained between them, which can effectively avoid physical contact between persons, thereby effectively avoiding cross-contamination, and can at the same time effectively ensure privacy between persons.

CLAIMS

1. A multi-station medical hand-washing station, comprising:
 - a base (10), a hand-washing basin body (20) fixed on the base (10), and a mirror frame (30) fixed on the hand-washing basin body (20);
 - n water faucets (21) fixed on a side wall of the hand-washing basin body (20) adjacent to the mirror frame (30), n being an integer greater than or equal to 2, a side wall of the hand-washing basin body (20) away from the mirror frame (30) comprising a plurality of receding grooves (201) and partitioning protrusions (202) arranged alternately, n receding grooves (201) being provided, and the receding grooves (201) matching the water faucets (21);
 - and a mirror (31) fixed on the mirror frame (30).
2. The multi-station medical hand-washing station according to claim 1, characterized in that a water heater (11) is provided in the base (10), and the water heater (11) is connected to the n water faucets (21).
3. The multi-station medical hand-washing station according to claim 1, characterized in that the width of each receding groove (201) is 350–450 mm.
4. The multi-station medical hand-washing station according to claim 3, characterized in that the width of each partitioning protrusion (202) is 200–300 mm.
5. The multi-station medical hand-washing station according to claim 1, characterized in that the hand-washing basin body (20) is a DuPont plastic hand-washing basin body.
6. The multi-station medical hand-washing station according to claim 1, characterized in that a first chamfer is provided on each of the two sides of the bottom of each receding groove (201), and the radius of curvature of the first chamfer is 70–120 mm.
7. The multi-station medical hand-washing station according to claim 6, characterized in that a second chamfer is provided on each of the two sides of each partitioning protrusion (202), and the radius of curvature of the second chamfer is 70–120 mm.
8. The multi-station medical hand-washing station according to claim 1, characterized in that each water faucet (21) is a sensor faucet.
9. The multi-station medical hand-washing station according to claim 1, characterized in that a soap dispenser (22) is provided between every two adjacent water faucets (21).

DESCRIPTION

A Multi-Station Medical Hand-Washing Station

TECHNICAL FIELD

[0001] The present utility model relates to hand-washing stations, and in particular discloses a multi-station medical hand-washing station.

BACKGROUND ART

[0002] A hand-washing station, also referred to as a hand-washing basin, is used for cleaning dirt from hands. In hospital operating rooms, the hand-washing station is also indispensable equipment; before and after performing an operation, doctors are required to wash their hands and carry out sterilization at the hand-washing station.

[0003] A traditional hand-washing station is provided with one water faucet and a mirror on the hand-washing basin, which allows one person to wash hands. However, a normal operation requires multiple doctors to complete the operation jointly; therefore, in the prior art, multi-faucet hand-washing stations for medical use have emerged, which allow multiple doctors to wash hands at the same time. However, when multiple doctors wash hands simultaneously, since the distance is difficult to judge, collisions very easily occur, and persons who have not washed their hands easily contaminate persons who have already washed their hands, which fails to meet hygiene requirements.

SUMMARY OF THE UTILITY MODEL

[0004] In view of this, it is necessary, in addressing the problems of the prior art, to provide a multi-station medical hand-washing station capable of effectively separating the hand-washing persons, thereby effectively avoiding cross-contamination, and at the same time ensuring privacy between persons.

[0005] To solve the problems of the prior art, the present utility model discloses a multi-station medical hand-washing station, comprising a base, a hand-washing basin body fixed on the base, and a mirror frame fixed on the hand-washing basin body;

[0006] n water faucets are fixed on a side wall of the hand-washing basin body adjacent to the mirror frame, n being an integer greater than or equal to 2; a side wall of the hand-washing basin body away from the mirror frame comprises a plurality of receding grooves and partitioning protrusions arranged alternately; n receding grooves are provided, and the receding grooves match the water faucets;

[0007] a mirror is fixed on the mirror frame.

[0008] Further, a water heater is provided in the base, and the water heater is connected to the n water faucets.

[0009] Further, the width of each receding groove is 350–450 mm.

[0010] Further, the width of each partitioning protrusion is 200–300 mm.

[0011] Further, the hand-washing basin body is a DuPont plastic hand-washing basin body.

[0012] Further, a first chamfer is provided on each of the two sides of the bottom of each receding groove, and the radius of curvature of the first chamfer is 70–120 mm.

[0013] Further, a second chamfer is provided on each of the two sides of each partitioning protrusion, and the radius of curvature of the second chamfer is 70–120 mm.

[0014] Further, each water faucet is a sensor faucet.

[0015] Further, a soap dispenser is provided between every two adjacent water faucets.

[0016] The present utility model has the following beneficial effects: the present utility model discloses a multi-station medical hand-washing station provided with a special position-limiting structure, which can effectively control the standing positions of all hand-washing persons, and at the same time can effectively separate the hand-washing persons so that a distance within a certain range is maintained between them, which can effectively avoid physical contact between persons, thereby effectively avoiding cross-contamination, and can at the same time effectively ensure privacy between persons.

BRIEF DESCRIPTION OF THE DRAWINGS

[0017] FIG. 1 is a schematic three-dimensional structural view of an embodiment of the present utility model.

[0018] FIG. 2 is a schematic three-dimensional structural view of another embodiment of the present utility model.

[0019] The reference numerals are as follows: base 10; water heater 11; hand-washing basin body 20; receding groove 201; partitioning protrusion 202; water faucet 21; soap dispenser 22; mirror frame 30; mirror 31.

DETAILED DESCRIPTION OF EMBODIMENTS

[0020] To enable a further understanding of the features, technical means, and the specific objectives and functions achieved by the present utility model, the present utility model is described in further detail below in conjunction with the accompanying drawings and the detailed description of embodiments.

[0021] Reference is made to FIG. 1 and FIG. 2.

[0022] An embodiment of the present utility model discloses a multi-station medical hand-washing station, comprising a base 10, a hand-washing basin body 20 fixed on the base 10, and a mirror frame 30 fixed on the hand-washing basin body 20; preferably, the hand-washing basin body 20 is a DuPont plastic hand-washing basin body;

[0023] n water faucets 21 are fixed on a side wall of the hand-washing basin body 20 adjacent to the mirror frame 30, n being an integer greater than or equal to 2; a side wall of the hand-washing basin body 20 away from the mirror frame 30 comprises a plurality of receding grooves 201 and partitioning protrusions 202 arranged alternately, i.e., the side wall of the hand-washing basin body 20 away from the mirror frame 30 has a wave-like shape; n receding grooves 201 are provided, and the receding grooves 201 match the water faucets 21 respectively;

[0024] a mirror 31 is fixed on the mirror frame 30, and the length of the mirror 31 is substantially the same as the length of the hand-washing basin 20.

[0025] When $n = 2$, the structure of the present utility model is as shown in FIG. 1; when $n = 3$, the structure of the present utility model is as shown in FIG. 2.

[0026] A person steps into a receding groove 201 and can use the water faucet 21 in front to wash hands, while persons standing adjacent to each other are separated by the partitioning protrusion.

[0027] The present utility model is provided with a special position-limiting structure, which can effectively control the standing positions of all hand-washing persons, and at the same time can effectively separate the hand-washing persons so that a distance within a certain range is maintained between them, which can effectively avoid physical contact between persons, thereby effectively avoiding cross-contamination, and can at the same time effectively ensure privacy between persons.

[0028] In this embodiment, a water heater 11 is provided in the base 10, and the water heater 11 is connected to the n water faucets 21. The water heater 11 can provide warm water for users. The base 10 comprises a box frame and a maintenance access door; the water heater 11 is fixed in the box frame, and opening the maintenance access door facilitates repair of the pipes.

- [0029]** In this embodiment, the width of each receding groove 201 is 350–450 mm, the width of each partitioning protrusion 202 is 200–300 mm, the depth of each receding groove 201 is 100–200 mm, and the protruding height of each partitioning protrusion 202 is 100–200 mm, which can provide persons with sufficient standing space, and the dimensions conform to the body types of most people.
- [0030]** In this embodiment, a first chamfer is provided on each of the two sides of the bottom of each receding groove 201, and the radius of curvature of the first chamfer is 70–120 mm; a second chamfer is provided on each of the two sides of each partitioning protrusion 202, i.e., a second chamfer is provided on each of the two sides of the face of the partitioning protrusion 202 away from the mirror frame 30, and the radius of curvature of the second chamfer is 70–120 mm. The provision of the chamfers can effectively prevent injury to the human body.
- [0031]** In this embodiment, each water faucet 21 is a sensor faucet, which can effectively improve the convenience of hand washing and can effectively avoid contamination caused by the need to directly touch the switch both before and after washing hands.
- [0032]** In this embodiment, a soap dispenser 22 is provided between every two adjacent water faucets 21; preferably, the soap dispenser 22 is a sensor soap dispenser capable of automatically squeezing out soap liquid, and the soap dispenser 22 is fixed on the side wall of the hand-washing basin body 20 adjacent to the mirror frame 30.
- [0033]** The above-described embodiments merely express several implementations of the present utility model, and the descriptions thereof are relatively specific and detailed, but they should not be construed as limiting the patent scope of the present utility model. It should be noted that, for a person of ordinary skill in the art, various modifications and improvements may further be made without departing from the concept of the present utility model, and such modifications and improvements all fall within the protection scope of the present utility model. Therefore, the protection scope of the present utility model patent shall be subject to the appended claims.

DRAWINGS

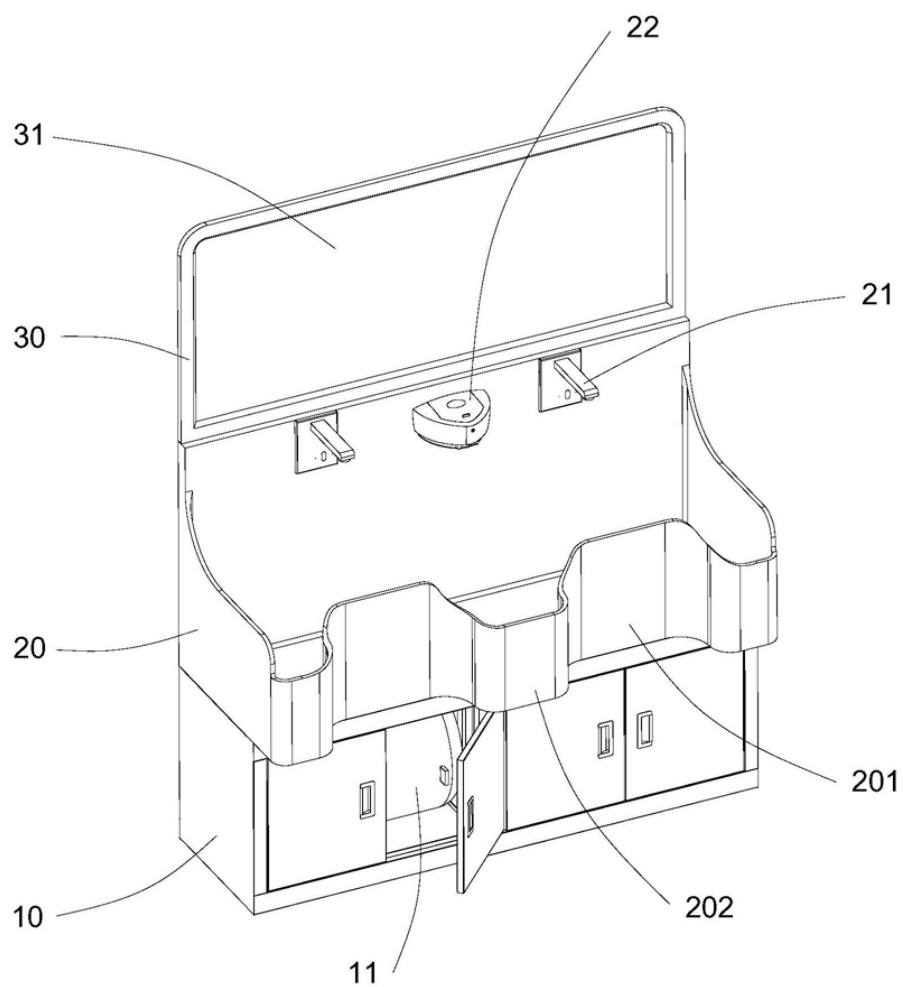


FIG. 1 — Schematic three-dimensional structural view of an embodiment of the multi-station medical hand-washing station (two stations, $n = 2$)

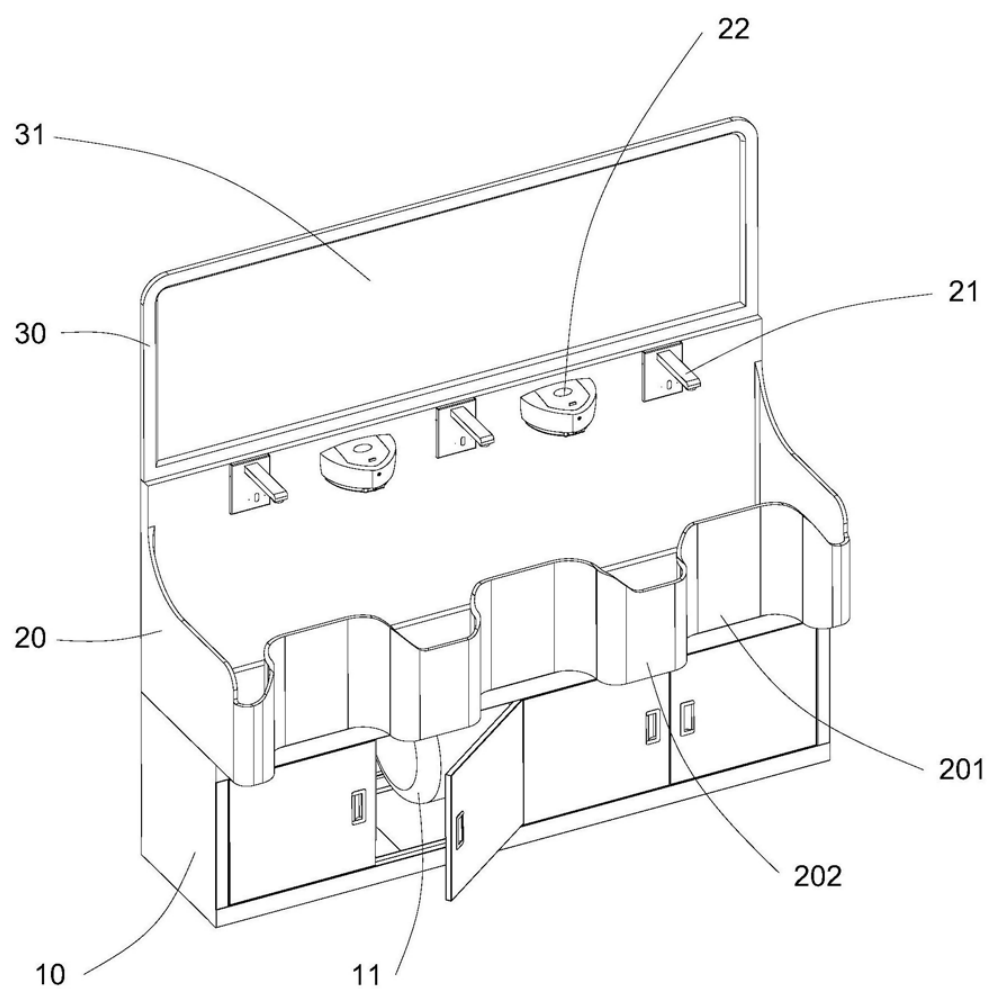


FIG. 2 — Schematic three-dimensional structural view of another embodiment of the multi-station medical hand-washing station (three stations, $n = 3$)