PARTITION FOR BATHROOM STALLS

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ABSTRACT

A bathroom has a partition to separate a bath area from a stool device. It becomes possible that a person uses the stool device and at the same time another person takes a bath in the same room. The partition can become opaque so that an image can be shown on it to change the scene of the bathroom. The partition can also be packed at a side to obtain a wider area in the bathroom.
PARTITION FOR BATHROOM STALLS

FIELD OF THE INVENTION

[0001] The present invention relates to a partition; more particularly, relates to freely partitioning a bathroom into stalls and obtaining changeable views by using a partition unit.

DESCRIPTION OF THE RELATED ARTS

[0002] A general bathroom has a bath unit, a stool unit, a bathtub and a hand-washing basin with no partition in between. So, when somebody is taking a bath in the bath room, the stool unit is available to nobody else. And after the bath, the ground in the bath room is all wet.
[0003] A bath curtain can be used in this case. Yet water is still splattered or leaked. So a separator with a door is invented to hold water from spattering or leaking out. Although water is actually avoided from spattering or leaking out the installation is not easy that a specialist is in need. And the separator is fixed firmly and takes room while it is not easy to change the design of the bathroom.
[0004] Moreover, no matter it is a bath curtain or a separator, it is transparent or just semi-transparent that the bath unit and the stool unit is not in a sense totally separated. So it is not possible that a person utilizes the stool unit and at the same time another person takes a bath in the same bathroom. Hence, the prior arts does not fulfill users’ requests on actual use.

SUMMARY OF THE INVENTION

[0005] The main purpose of the present invention is to freely partition a bathroom into stalls and obtain changeable views by using a partition unit.
[0006] To achieve the above purpose, the present invention is a partition for bathroom stalls, comprising a room space having a bath unit and a stool unit; and a partition unit movably set between the bath unit and the stool unit, where the partition unit comprises planks and the plank has a glass layer of a polymer dispersed liquid crystal (PDLC) film. Accordingly, a novel partition for bathroom stalls is obtained.

BRIEF DESCRIPTIONS OF THE DRAWINGS

[0007] The present invention will be better understood from the following detailed description of the preferred embodiment according to the present invention, taken in conjunction with the accompanying drawings, in which
[0008] FIG. 1 is the side view showing the preferred embodiment according to the present invention;
[0009] FIG. 2 is the top-down view;
[0010] FIG. 3 is the side view showing the first state of use;
[0011] FIG. 4 is the top-down view of the first state of use;
[0012] FIG. 5 is the side view showing the second state of use; and
[0013] FIG. 6 is the side view showing the third state of use.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0014] The following description of the preferred embodiment is provided to understand the features and the structures of the present invention.
[0015] Please refer to FIG. 1 and FIG. 2, which are a side view and a top-down view showing a preferred embodiment according to the present invention. As shown in the figures, the present invention is a partition for bathroom stalls, comprising a room space and a partition unit where a bathroom is freely partitioned into stalls and has changeable views by using the partition unit.
[0016] The room space has a bath unit, a stool unit, a bathtub unit and a hand-washing basin, where a sidewalk and an overhead projector are set on a ceiling of the room space.
[0017] The partition unit is movably set in the side wall of the room space and is located between the bath unit and the stool unit. The partition unit comprises a plurality of planks which are serially connected and are foldable. The plank has a glass layer of a polymer dispersed liquid crystal (PDLC) film. The glass layer has a phase-changing controller which is a wireless remote controller or a wire switch. According to the present invention, a novel partition for bathroom stalls is obtained.
[0018] Please refer to FIG. 3 and FIG. 4 which are a side view and a top-down view showing the first state of use. As shown in the figures, a partition unit is pulled to form a wall of planks along a sidewalk on a ceiling of a room space. Thus, a bath unit and a stool unit are separated apart by the partition unit. Then a remote controller or a switch is used to control a phase-changing controller for changing a phase of the glass layer to make the glass layer become opaque for separating the bath unit and the stool unit. Consequently, wet area and dry area in a bathroom is separated; and, stalls are obtained by freely partitioning the bathroom with the partition unit.
[0019] An overhead projector on the ceiling of the room space is used to project a scene or an image on the opaque glass layer of the partition unit so that views on the planks are freely changed with the scene or the image on the glass layer. And, when a wider area in the room space is required, the planks are folded at a side of the room space to obtain a wider area.
[0020] Please refer to FIG. 5, which is a side view showing a second state of use. As shown in the figure, planks along a partition unit are piled up at a side of a room space to obtain a wider area.
[0021] Please refer to FIG. 6, which is a side view showing a third state of use. As shown in the figure, planks along a partition unit is deposed on at least one wall of a room space to obtain a novel view.
[0022] To sum up, the present invention is a partition for bathroom stalls, where a bathroom is freely partitioned into stalls and has changeable views by using a partition unit.
[0023] The preferred embodiment herein disclosed is not intended to unnecessarily limit the scope of the invention. Therefore, simple modifications or variations belonging to the equivalent of the scope of the claims and the instructions disclosed herein for a patent are all within the scope of the present invention.

What is claimed is:
1. A partition for bathroom stalls, comprising a room space, said room space having a bath unit and a stool unit; a partition unit, said partition unit being movably located between said bath unit and said stool unit, said partition unit including:
2. A partition for bathroom stalls, comprising a room space, said room space having a bath unit and a stool unit; a partition unit, said partition unit including a plurality of planks which are serially connected and are foldable; a glass layer of a polymer dispersed liquid crystal (PDLC) film; and a phase-changing controller which is a wireless remote controller or a wire switch.

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unit comprising a plurality of planks, said plank having a glass layer of a polymer dispersed liquid crystal (PDLC) film.

2. The partition according to claim 1, wherein a slideway for said partition unit is deposed on a ceiling of said room space.

3. The partition according to claim 1, wherein an overhead projector corresponding to said partition unit is deposed on a ceiling of said room space.

4. The partition according to claim 1, wherein said planks are serially connected; and wherein said planks are foldable.

5. The partition according to claim 4, wherein said planks are piled up.

6. The partition according to claim 4, wherein said partition unit is deposed on at least one wall of said room space.

7. The partition according to claim 1, wherein said glass layer has a phase-changing controller.

8. The partition according to claim 7, wherein said phase-changing controller is a wireless remote controller.

9. The partition according to claim 7, wherein said phase-changing controller is a wire switch.