CLAIMS

1. A floor trap device comprising,

an inlet for receiving liquid into the floor trap device;

an outlet for transmitting liquid from the floor trap device;

a chamber comprising a base trough portion, the chamber for providing fluid communication from the inlet to the outlet;

a dividing member disposed internal the chamber and extending into the chamber from a sidewall of the chamber, the dividing member arranged to divide the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

wherein the sub-chambers are capable of retaining liquid within the base trough portion.

2. The device as claimed in claim 1, wherein the device is capable of being removably installed in a floor trap opening.

3. The device as claimed in any one of claims 1 to 2, wherein the device is substantially tubular in shape.

4. The device as claimed in any one of claims 1 to 3, wherein the dividing member is removably attached to the device.

5. The device as claimed in any one of claims 1 to 5, wherein the base trough portion further comprises a flange member for maintaining a liquid level, whereby in use, the dividing member cooperates with liquid in a sub-chamber adjacent the outlet to prevent fluid flow from the outlet into the chamber.

6. The device as claimed in claim 5, wherein the fluid is a gas or a liquid.

7. The device as claimed in any one of claims 1 to 6, wherein in use, at least part of the dividing member contacts liquid retained in the base trough portion.

8. The device as claimed in claim 2, further comprising one or more spine members coupled to one or more sidewalls of the device, wherein the spine members function to facilitate removal of the device from the floor trap opening.

9. The device as claimed in any one of claims 1 to 8, further comprising a cover for covering the inlet, the cover comprising a grating and a circumferential opening around the grating for allowing liquid into the device via the circumferential opening.

10. The device as claimed in any one of claims 1 to 9, wherein the device is capable of being installed in a conventional floor trap pipe.

11. The device as claimed in claim 10, wherein the outlet is disposed on a bottom surface of the device in fluid communication with the floor trap pipe.

12. A method for prevention of fluid transmission, the method,

providing a floor trap device having a chamber comprising a base trough portion, the chamber for providing fluid communication from an inlet to an outlet of the floor trap device;

providing a dividing member internal the chamber and extending into the chamber from a sidewall of the chamber, the dividing member dividing the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

retaining liquid within the base trough portion;

wherein transmission of fluid is substantially prevented from the outlet to the inlet by the dividing member and the retained liquid.

13. The method as claimed in claim 12, further comprising removably installing the device in a floor trap opening.

14. The method as claimed in any one of claims 12 to 13, wherein the device is substantially tubular in shape.

15. The method as claimed in any one of claims 12 to 14, further comprising removably attaching the dividing member to the device.

16. The method as claimed in any one of claims 12 to 15, further comprising maintaining a liquid level in the base trough portion using a flange member, wherein the

dividing member cooperates with liquid in a sub-chamber adjacent the outlet to prevent fluid flow from the outlet into the chamber.

17. The method as claimed in claim 16, wherein the fluid is a gas or a liquid.

18. The method as claimed in any one of claims 12 to 17, further comprising providing the dividing member such that at least part of the dividing member contacts liquid retained in the base trough portion.

19. The method as claimed in claim 13, further comprising coupling one or more spine members to one or more sidewalls of the device, for facilitating removal of the device from the floor trap opening.

20. The method as claimed in any one of claims 12 to 19, further comprising providing a cover for covering the inlet, the cover comprising a grating and a circumferential opening around the grating for allowing liquid into the device via the circumferential opening.

21. The method as claimed in any one of claims 12 to 20, further comprising installing the device in a conventional floor trap pipe.

22. The method as claimed in claim 21, wherein the outlet is disposed on a bottom surface of the device in fluid communication with the floor trap pipe.

23. A method for reversibly installing a floor trap device, the method comprising,

providing a floor trap opening;

inserting the floor trap device into the floor trap opening, the floor trap device comprising

an inlet for receiving liquid into the floor trap device;

an outlet for transmitting liquid from the floor trap device;

a chamber comprising a base trough portion, the chamber for providing fluid communication from the inlet to the outlet;

a dividing member disposed internal the chamber and extending into the chamber from a sidewall of the chamber, the dividing member arranged to divide the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

wherein the sub-chambers are capable of retaining liquid within the base trough portion; and

coupling the outlet of the device to an outlet pipe.

24. The method as claimed in claim 23, wherein the outlet pipe transmits liquid from the device to a sewage pipe.

25. The method as claimed in claims 23 or 24, wherein the outlet pipe comprises a conventional floor trap pipe.

CLAIMS

1. A floor trap device comprising,

an inlet for receiving liquid into the floor trap device;

an outlet for transmitting liquid from the floor trap device;

a chamber comprising a base trough portion, the chamber for providing fluid communication from the inlet to the outlet;

a dividing member extending into the chamber, the dividing member arranged to divide the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

wherein the sub-chambers are capable of retaining liquid within the base trough portion.

2. The device as claimed in claim 1, wherein the device is capable of being removably installed in a floor trap opening.

3. The device as claimed in claims 1 or 2, wherein the dividing member is disposed internal the chamber.

4. The device as claimed in any one of claims 1 to 3, wherein the device is substantially tubular in shape.

5. The device as claimed in any one of claims 1 to 4, wherein the dividing member is removably attached to the device.

6. The device as claimed in any one of claims 1 to 5, wherein the base trough portion further comprises a flange member for maintaining a liquid level, whereby in use, the dividing member cooperates with liquid in a sub-chamber adjacent the outlet to prevent fluid flow from the outlet into the chamber.

7. The device as claimed in claim 6, wherein the fluid is a gas or a liquid.

8. The device as claimed in any one of claims 1 to 7, wherein in use, at least part of the dividing member contacts liquid retained in the base trough portion.

9. The device as claimed in claim 2, further comprising one or more spine members coupled to one or more sidewalls of the device, wherein the spine members function to facilitate removal of the device from the floor trap opening.

10. The device as claimed in any one of claims 1 to 9, further comprising a cover for covering the inlet, the cover comprising a grating and a circumferential opening around the grating for allowing liquid into the device via the circumferential opening.

11. The device as claimed in any one of claims 1 to 10, wherein the device is capable of being installed in a conventional floor trap pipe.

12. The device as claimed in claim 11, wherein the outlet is disposed on a bottom surface of the device in fluid communication with the floor trap pipe.

13. A method for prevention of fluid transmission, the method,

providing a floor trap device having a chamber comprising a base trough portion, the chamber for providing fluid communication from an inlet to an outlet of the floor trap device;

providing a dividing member dividing the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

retaining liquid within the base trough portion;

wherein transmission of fluid is substantially prevented from the outlet to the inlet by the dividing member and the retained liquid.

14. The method as claimed in claim 13, further comprising removably installing the device in a floor trap opening.

15. The method as claimed in claims 13 or 14, further comprising providing the dividing member internal the chamber.

16. The method as claimed in any one of claims 13 to 15, wherein the device is substantially tubular in shape.

17. The method as claimed in any one of claims 13 to 16, further comprising removably attaching the dividing member to the device.

18. The method as claimed in any one of claims 13 to 17, further comprising maintaining a liquid level in the base trough portion using a flange member, wherein the

dividing member cooperates with liquid in a sub-chamber adjacent the outlet to prevent fluid flow from the outlet into the chamber.

19. The method as claimed in claim 18, wherein the fluid is a gas or a liquid.

20. The method as claimed in any one of claims 13 to 19, further comprising providing the dividing member such that at least part of the dividing member contacts liquid retained in the base trough portion.

21. The method as claimed in claim 14, further comprising coupling one or more spine members to one or more sidewalls of the device, for facilitating removal of the device from the floor trap opening.

22. The method as claimed in any one of claims 13 to 21, further comprising providing a cover for covering the inlet, the cover comprising a grating and a circumferential opening around the grating for allowing liquid into the device via the circumferential opening.

23. The method as claimed in any one of claims 13 to 22, further comprising installing the device in a conventional floor trap pipe.

24. The method as claimed in claim 23, wherein the outlet is disposed on a bottom surface of the device in fluid communication with the floor trap pipe.

25. A method for reversibly installing a floor trap device, the method comprising,

providing a floor trap opening;

inserting the floor trap device into the floor trap opening, the floor trap device comprising

an inlet for receiving liquid into the floor trap device;

an outlet for transmitting liquid from the floor trap device;

a chamber comprising a base trough portion, the chamber for providing fluid communication from the inlet to the outlet;

a dividing member extending into the chamber, the dividing member arranged to divide the base trough portion into at least two sub-chambers, said sub-chambers in fluid communication with each other; and

wherein the sub-chambers are capable of retaining liquid within the base trough portion; and

coupling the outlet of the device to an outlet pipe.

26. The method as claimed in claim 25, wherein the outlet pipe transmits liquid from the device to a sewage pipe.

27. The method as claimed in claims 21 or 26, wherein the outlet pipe comprises a conventional floor trap pipe.