**[0044]** Optionally, the tubular insert has a density of greater than 1000 kg/m³ at 4C and atmospheric pressure.

**[0045]** This may help a person to manhandle the tubular insert, particularly in water such as seawater/saltwater.

**[0046]** Optionally, the density is greater than 1020 kg/m³ at 4C and atmospheric pressure. Further optionally, the density is greater than 1030 kg/m³ at 4C and atmospheric pressure.

**[0047]** Optionally, the tubular insert comprises a closure at least partially blocking the flow path at an axial end portion of the tube. Optionally, the closure only partially blocks the flow path. Alternatively, the closure fully blocks the flow path.

**[0048]** According to a third aspect of the present invention, there is provided a kit of parts for use in repairing or providing an overboard discharge pipe of a vessel, wherein the kit of parts comprises the tubular insert according to the second aspect and a cover for blocking an overboard outlet in a hull of a vessel, to which overboard outlet the overboard discharge pipe is fluidically connected, in use.

**[0049]** Optionally, the kit of parts comprises the adhesive and/or chocking material. Optionally, the kit of parts comprises the hose for connection to the connector.

**[0050]** Optionally, at least a portion of the cover is flexible, or resilient, so that the cover better conforms to the overboard outlet or hull, in use. Optionally, the tubular insert comprises the closure discussed above, and the kit of parts comprises a mechanism by which the cover is connectable to the closure to help retain the cover in position relative to the overboard outlet or hull, in use. Optionally, the mechanism comprises the cover jig discussed above.

**[0051]** Optionally, the kit of parts comprises a sleeve for encircling the tubular insert when the tubular insert is in the overboard discharge pipe. Optionally, the sleeve has a flange for abutting an end of the overboard discharge pipe. Optionally, the kit of parts comprises the locator jig discussed above.

**[0052]** Optionally, the kit of parts comprises one or more flotation devices for attaching to the tubular insert to increase a buoyancy of the tubular insert.

**[0053]** According to a fourth aspect of the present invention, there is provided a vessel overboard discharge assembly comprising an overboard discharge pipe and the tubular insert according to the second aspect located in the overboard discharge pipe.

**[0054]** According to a fifth aspect of the present invention, there is provided a vessel comprising the vessel overboard discharge assembly according to the fourth aspect.

**[0055]** Optionally, the vessel is a marine vessel.

## BRIEF DESCRIPTION OF DRAWINGS

**[0056]** Embodiments of the invention will now be described, by way of example only, with reference to the accompanying drawings, in which:

**[0057]** Figure 1 shows a schematic side view of an example marine vessel 1;

**[0058]** Figure 2 shows a flow chart of an example method;

**[0059]** Figures 3A to 3G show respective schematic cross-sectional views of an example scrubber outlet assembly being assembled according to the example method;

**[0060]** Figure 4 shows a schematic cross-sectional view of an example assembled scrubber outlet assembly; and

**[0061]** Figures 5A and 5B show respective perspective and top-down schematic views of an example tubular insert.

## DETAILED DESCRIPTION

**[0062]** Figure 1 shows a schematic side view of an example of a marine vessel 1 according to an example. In this example, the marine vessel 1 is a container ship. In other examples, the marine vessel 1 is another form of cargo vessel, such as a tanker, a dry-bulk carrier or a reefer ship, or a passenger vessel. In other examples, the marine vessel is any other water-going vessel, such as a tugboat, or a recreational boat, such as a yacht. In other examples, the vessel is other than a marine vessel, such as a riverboat or another type of inland vessel.

CLAIMS:

1. A method of assembling a vessel overboard discharge assembly, the method comprising:

inserting a tubular insert into an overboard discharge pipe so that a space is defined between the tubular insert and the overboard discharge pipe;

blocking an outboard opening into the space at an outboard end of the space; and

providing in the space an adhesive and/or chocking material for adhering and/or chocking the tubular insert in the overboard discharge pipe.

2. The method of claim 1, wherein the inserting comprises inserting the tubular insert into the overboard discharge pipe from an outboard end of the overboard discharge pipe.

3. The method of claim 1 or claim 2, wherein the blocking occurs after the inserting.

4. The method of any one of claim 2 or claim 3 when dependent on claim 2, wherein the method comprises blocking the outboard end of the overboard discharge pipe, and the blocking the outboard end of the overboard discharge pipe comprises the blocking the outboard opening into the space.

5. The method of claim 4, comprising using a cover to block the outboard end of the overboard discharge pipe, in such a way that the cover blocks the outboard opening into the space at the outboard end of the space.

6. The method of claim 5, wherein at least a portion of the cover is flexible, or resilient, so that the cover better conforms to the outboard end of the overboard discharge pipe and/or to the outboard opening into the space.

7. The method of any one of claims 4 to 6, comprising at least partially draining the space or the overboard discharge pipe after the blocking the outboard end of the overboard discharge pipe.

8. The method of any one of claims 1 to 7, wherein the inserting is performed when an outboard end of the overboard discharge pipe is submerged.

9. The method of claim 8, comprising using one or more flotation devices to increase a buoyancy of the tubular insert during the inserting of the tubular insert.

10. The method of any one of claims 1 to 9, comprising blocking an inboard opening into the space at an inboard end of the space.

11. The method of any one of claims 1 to 10, comprising providing a vent hole to allow air and/or adhesive and/or chocking material to be vented when providing the adhesive and/or chocking material in the space.

12. The method of any one of claims 1 to 11, comprising unblocking the outboard opening into the space after the providing adhesive and/or chocking material in the space.

13. The method of any one of claims 1 to 12, wherein the tubular insert comprises a tube that defines a flow path along which a fluid is flowable from a fluid system of the vessel in use, and a passage through a circumferential wall of the tube, the passage fluidically connecting the flow path with the space; and

wherein the providing comprises passing the adhesive and/or chocking material along the passage.

14. The method of any one of claims 1 to 13, wherein the method further comprises locating a sleeve between the tubular insert and the overboard discharge pipe at an inboard end portion of the overboard discharge pipe.

15. The method of claim 14, wherein the sleeve encircles the tubular insert and the overboard discharge pipe encircles the tubular insert.

16. A tubular insert for insertion in an overboard discharge pipe of a vessel, the tubular insert comprising:

a tube defining a flow path along which a fluid is flowable from a fluid system of the vessel, in use; and

a passage through a circumferential wall of the tube, the passage fluidically connecting the flow path with an outer surface of the tube, whereby, during installation of the tubular insert in the overboard discharge pipe, adhesive and/or chocking material is passable from the flow path via the passage to the outer surface of the tube for adhering and/or chocking the outer surface of the tube in the overboard discharge pipe.

17. The tubular insert of claim 16, comprising one or more protrusions at an outer surface of the tube.

18. A kit of parts for use in repairing or providing an overboard discharge pipe of a vessel, wherein the kit of parts comprises the tubular insert according to claim 16 or claim 17 and a cover for blocking an overboard outlet in a hull of a vessel, to which overboard outlet the overboard discharge pipe is fluidically connected, in use.

19. A vessel overboard discharge assembly comprising an overboard discharge pipe and the tubular insert according to claim 16 or claim 17 located in the overboard discharge pipe.

20. A vessel comprising the vessel overboard discharge assembly according to claim 19.