floating unit and in the worst case may cause the drain pipe to become detached from the floating unit. Furthermore, the drain pipe involves an increased weight of the floating unit, in addition to increased steel costs. The drain pipe generally requires thick walls and supports in order to resist environmental loads.

SUMMARY

~~An object of e~~Embodiments herein ~~is therefore~~ seek to obviate at least one of the above disadvantages and/or to provide an improved discharge of waste fluid from the floating unit.

According to a first aspect, ~~the object is achieved by~~ there is provided a system for discharging a waste fluid from a floating unit adapted to float in a body of water. The system is adapted to discharge the waste fluid to the body of water surrounding the floating unit. The system comprises a mooring line compartment which is adapted to accommodate at least part of a mooring line for the floating unit. The system comprises a discharge portion adapted to discharge the waste fluid into the mooring line compartment, and an outlet which is adapted to discharge the waste fluid from the mooring line compartment to the body of water.

According to a second aspect, there is provided ~~the object is achieved by~~ a floating unit comprising the above discussed system for discharging the waste fluid.

According to a third aspect, there is provided ~~the object is achieved by~~ a method for discharging the waste fluid from a floating unit to the body of water surrounding the floating unit. The floating unit comprises the system which comprises the mooring line compartment which is adapted to accommodate at least part of a mooring line for the floating unit, the discharge portion and the outlet. The waste fluid is discharged from the floating unit via the discharge portion to the mooring line compartment. The waste fluid is discharged from the mooring line compartment to the body of water via the outlet.

Since the mooring line compartment is utilized to discharge the waste fluid from the floating unit an improved discharge of waste fluid from the floating unit is provided.

CLAIMS

1. A system for discharging a waste fluid from a floating unit ~~(100)~~ adapted to float in a body of water ~~(103)~~, said system being adapted to discharge said waste fluid to said body of water ~~(103)~~ surrounding the floating unit ~~(100)~~, the system comprising:

- a mooring line compartment ~~(105)~~ adapted to accommodate at least part of a mooring line ~~(108)~~ for the floating unit ~~(100)~~;
- a discharge portion ~~(115)~~ adapted to discharge the waste fluid into the mooring line compartment ~~(105)~~; and
- an outlet ~~(113)~~ adapted to discharge the waste fluid from the mooring line compartment ~~(105)~~ to the body of water ~~(103)~~.

2. The system according to claim 1, wherein the discharge portion ~~(115)~~ is adapted to be located above the outlet ~~(113)~~.

3. The system according to any of the claims 1 – 2, wherein the discharge portion ~~(115)~~ is adapted to be located above a still water surface ~~(114)~~ of the body of water ~~(103)~~ when the floating unit ~~(100)~~ floats in said body of water ~~(103)~~, and wherein the outlet ~~(113)~~ is adapted to be located below the still water surface ~~(114)~~ of the body of water ~~(103)~~) when the floating unit ~~(100)~~ floats in said body of water ~~(103)~~.

4. The system according to any of the claims 1 – 3, wherein the outlet ~~(113)~~ is adapted to be located at a bottom portion of the mooring line compartment ~~(105)~~.

5. The system according to any of the claims 1 – 4, further comprising an overflow pipe ~~(116)~~ adapted to be located above the outlet ~~(113)~~ and adapted to guide the waste fluid through the overflow pipe ~~(116)~~ if the mooring line compartment ~~(105)~~ is overflowed by fluid.

6. The system according to any of the claims 1 – 5, wherein the waste fluid is at least one of a cooling fluid, a drain fluid, rain water, a ballast fluid and a bilge fluid.

7. A floating unit ~~(100)~~ comprising a system for discharging a waste fluid according to any one of the preceding claims.

8. A method for discharging a waste fluid from a floating unit (100) to a body of water (103) surrounding the floating unit (100), wherein the floating unit (100) comprises a system, which system comprises a mooring line compartment (105) adapted to accommodate at least part of a mooring line (108) for the floating unit (100), a discharge portion (115) and an outlet (113), the method comprising:

discharging (201) the waste fluid from the floating unit (100) via the discharge portion (115) to the mooring line compartment (105), and

discharging (202) the waste fluid from the mooring line compartment (105) to the body of water (103) via the outlet (113).

9. The method according to claim 8, wherein the discharge portion (115) is located above the outlet (113).

10. The method according to any of the claims 8 – 9, wherein the discharge portion (115) is located above a still water surface (114) of the body of water (103), and wherein the outlet (113) is located below the still water surface (114) of the body of water (103).

11. The method according to any of the claims 8 – 10, wherein the outlet (113) is located at a bottom part of the mooring line compartment (105).

12. The method according to any of the claims 8 – 11, further comprising:

guiding (203) the waste fluid through an overflow pipe (116) if the mooring line compartment (105) is overflowed by the waste fluid, which overflow pipe (116) is located above the outlet (113).

13. The method according to any of the claims 8 – 12, wherein the waste fluid is at least one of a cooling fluid, a drain fluid, rain water, a ballast fluid and a bilge fluid.