CLAIMS

1. Exhaust gas cleaning system (1, 49, 77, 107) for cleaning exhaust gas (EG) onboard a ship, which exhaust gas cleaning system (1, 49, 77, 107) comprises

an exhaust gas inlet (5, 79) for receiving the exhaust gas (EG) to be cleaned,

a scrubber (9, 51, 83) arranged to clean, in a scrubbing section (11, 53, 89) of the scrubber (9, 51, 83), the exhaust gas (EG) from pollutants, wherein the scrubbing section (11, 53, 89) comprises an exhaust gas inlet (19) for receiving the exhaust gas (EG) and an exhaust gas outlet (15, 57) for outputting the exhaust gas (EG),

a wet Electrostatic Precipitator (39) arranged to further clean the exhaust gas (EG) from pollutants after it has been cleaned in the scrubbing section (11, 53, 89), wherein the wet Electrostatic Precipitator (39) comprises an exhaust gas inlet (40) arranged in communication with the exhaust gas outlet (15, 57) of the scrubbing section (11, 53, 89) for receiving the exhaust gas (EG), an exhaust gas outlet (42) for outputting the exhaust gas (EG), and at least one channel (38) (41) arranged to convey the exhaust gas (EG) from the exhaust gas inlet (40) to the exhaust gas outlet (42) of the wet Electrostatic Precipitator (39), and

an exhaust gas outlet (7, 81) for outputting the cleaned exhaust gas (EG),

the exhaust gas cleaning system (1, 49, 77, 107) being **characterized in** further comprising

one or more ~~a second number ≥ 1 of~~ first ejection devices (43) arranged between the scrubbing section (11, 53, 89) and said at least one channel (38), each of the first ejection devices (43) comprising an ejection orifice (43a) facing the wet Electrostatic Precipitator (39) and being arranged to, when exhaust gas (EG) is flowing through the exhaust gas cleaning system (1, 49, 77, 107), eject liquid towards said at least one channel (38) to clean it from pollutants deposited by the exhaust gas (EG) when this is conveyed through said at least one channel (38).

2. Exhaust gas cleaning system (1, 49, 77, 107) according to claim 1, which exhaust gas cleaning system (1, 49, 77, 107) lacks a demister between the exhaust gas outlet (42) of the wet Electrostatic Precipitator (39) and the exhaust gas outlet (7, 81) of the exhaust gas cleaning system (1, 49, 77, 107).

3. Exhaust gas cleaning system (49) according to ~~any of~~ claim 1 or 2, wherein the scrubber (51) comprises an exhaust gas outlet (59) for outputting the exhaust gas (EG), which exhaust gas outlet (59) is arranged in communication with the exhaust gas outlet (57) of the scrubbing section (53) for forwarding the exhaust gas (EG), and

wherein the exhaust gas inlet (40) of the wet Electrostatic Precipitator (39) is arranged in communication with the exhaust gas outlet (59) of the scrubber (51) for receiving the exhaust gas (EG).

4. Exhaust gas cleaning system (1, 49, 77, 107) according to any one of the preceding claims, wherein the scrubbing section (11, 53, 89) comprises a first sub scrubbing section (23, 93, 109) and a third number ≥ 1 of second ejection devices (27, 97) arranged inside the first sub scrubbing section (23, 93, 109), which second ejection devices (27, 97) are arranged to eject a scrubbing fluid into the exhaust gas (EG) to wash the same.

5. Exhaust gas cleaning system (1, 49, 77, 107) according to claim 4, wherein the scrubbing section (11, 53, 89) comprises a second sub scrubbing section (25, 95) and a fourth number ≥ 1 of third ejection devices (29, 99) and a filling (31, 101) arranged inside the second sub scrubbing section (25, 95), which third ejection devices (29, 99) are arranged to supply scrubbing fluid to the filling (31, 101) to wash the exhaust gas (EG) when this passes through the filling (31, 101), wherein the second sub scrubbing section (25, 95) is arranged between the wet Electrostatic Precipitator (39) and the first sub scrubbing section (23, 93, 109).

6. Exhaust gas cleaning system (1, 49, 77, 107) according to claim 5~~6~~, wherein the second sub scrubbing section (25, 95) and a wESP section (13, 91) of the exhaust gas cleaning system (1, 49, 77, 107) comprising the wet Electrostatic Precipitator (39) have essentially similar outer contours along a longitudinal center axis (C) of the second scrubbing section (23, 93, 109) and the wESP section (13, 91).

7. Exhaust gas cleaning system (1, 49, 77 , 107) according to any one of claims 4-6, wherein the scrubbing fluid has a pH value above 7.

8. Exhaust gas cleaning system (1, 49, 77, 107) according to any one of the preceding claims, further comprising a fifth number ≥ 1 of fourth ejection devices (45) arranged between the exhaust gas outlet (7, 81) of the exhaust gas cleaning system (1, 49, 77, 107) and said at least one channel (38) and arranged to, when no exhaust gas (EG) is flowing through the exhaust gas cleaning system (1, 49, 77, 107), eject liquid towards said at least one channel (38) to clean it from pollutants deposited by the exhaust gas (EG) when this is conveyed through said at least one channel (38).

9. Exhaust gas cleaning system (1, 49, 77, 107) according to any one of the preceding claims, wherein an exhaust gas flow direction through the wet Electrostatic Precipitator (39) and at least most of the scrubbing section (11, 53, 89) is essentially vertical.

10. Method for cleaning exhaust gas (EG) onboard a ship, comprising

cleaning the exhaust gas (EG) from pollutants in a scrubbing section (11, 53, 89) of a scrubber (9, 51, 83),

further cleaning the exhaust gas (EG) from pollutants in a wet Electrostatic Precipitator (39) after it has been cleaned in the scrubbing section (11, 53, 89), which wet Electrostatic Precipitator (39) comprises at least one channel (38) arranged to convey the exhaust gas (EG) through the wet Electrostatic Precipitator (39),

the method being **characterized in** further comprising

ejecting, when exhaust gas (EG) is flowing through the exhaust gas cleaning system (1, 49, 77, 107), liquid through a respective ejection orifice (43a) of one or more ~~a second number ≥ 1 of~~ first ejection devices (43) arranged between the scrubbing section (11, 53, 89) and said at least one channel (38), which ejection orifices face (43a) the wet Electrostatic Precipitator (39), towards said at least one channel (38) to clean it from pollutants deposited by the exhaust gas (EG) when this is conveyed through said at least one channel (38).

11. Method according to claim 10, comprising releasing the exhaust gas (EG) into the atmosphere, after said cleaning and further cleaning from pollutants, without passing it through a demister.

12. Method according to ~~any of claims 10-11~~ claim 10 or 11, wherein the wet Electrostatic Precipitator (39) is arranged outside the scrubber (51, 83) such that said cleaning of the exhaust gas (EG) from pollutants takes place inside the scrubber (51, 83) while said further cleaning of the exhaust gas from pollutants takes place outside the scrubber (51, 83).

13. Method according to any one of claims 10-12, comprising ejecting a scrubbing fluid inside a first sub scrubbing section (23, 93, 109) of the scrubbing section (11, 53, 89) and into the exhaust gas (EG) to wash the same.

14. Method according to claim 13, comprising supplying scrubbing fluid to a filling (31, 101) arranged inside a second sub scrubbing section (25, 95) of the scrubbing section (11, 53, 89) to wash the exhaust gas (EG) when this passes through the filling (31, 101), wherein the second sub scrubbing section (25, 95) is arranged between the wet Electrostatic Precipitator (39) and the first sub scrubbing section (23, 93, 109).

15. Method according to ~~any of claims 13-14~~claim 13 or 14, wherein the scrubbing fluid has a pH value above 7.

16. Method according to any one of claims 10-15 comprising feeding the exhaust gas through the wet Electrostatic Precipitator (39) and at least most of the scrubbing section (11, 53, 89) in an essentially vertical exhaust gas flow direction.

17. Use of an exhaust gas cleaning system (1, 49, 77, 107) according to any one of claims 1-9 on-board a ship for the purpose of reduction of pollutants in exhaust gas (EG) from a marine combustion engine (3), burner or boiler.