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(71) Applicant: **WÄRTSILÄ FINLAND OY** [FI/FI]; Teollisuuskatu 1, 65170 Vaasa (FI).

(72) Inventors: **D'URSO, Emanuele**; c/o Wärtsilä Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI). **ENGSTO, Robert**; c/o Wärtsilä Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI). **WAHLBERG, Rasmus**; c/o Wärtsilä Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI). **SAXÉN, Patrik**; c/o Wärtsilä

Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI). **GÄSTGIVARS, Kim**; c/o Wärtsilä Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI). **SANDVIK, Mathias**; c/o Wärtsilä Finland Oy, Teollisuuskatu 1, 65170 Vaasa (FI).

(74) Agent: **BOCO IP OY AB**; Kansakoulukatu 3, 00100 Helsinki (FI).

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(54) Title: FUEL TANK ARRANGEMENT, MARINE VESSEL AND METHOD FOR COOLING FUEL COMPRISING AMMONIA

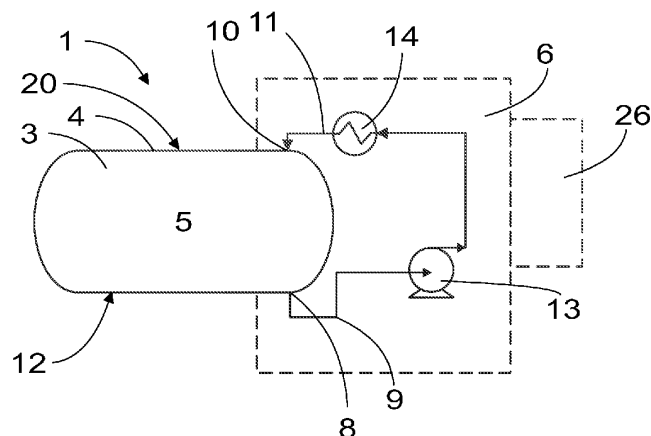


FIG. 1

(57) Abstract: A fuel tank arrangement (1) for a marine vessel (2) comprises a fuel tank (3) comprising a shell (4) defining a fuel space (5) inside the shell (4) for storing fuel, and a tank connection space (6) connected to the fuel tank (3). The tank connection space (6) comprises a gas tight compartment containing tank penetrations and tank valves (7) for fuel, an entrance to the tank connection space (6) provided through a first space (26), which first space (26) comprises a gas tight compartment isolated from the tank connection space (6), and a first fuel outlet (8) provided in a shell (4) of the fuel tank (3) within the tank connection space (6) and connected to a first fuel line (9). The tank connection space (6) further comprises a first fuel inlet (10) connected to a second fuel line (11) and a first heat exchanger (14) provided downstream from the first fuel line (9) and upstream from the second fuel line (11). The first fuel outlet (8) is provided in the area of the lowest 30 percent of a fuel space (5) of the fuel tank (3) for connecting the fuel tank (3) to the first fuel line (9), the first fuel line (9), the second fuel line (11), and the first heat exchanger (14) form at least a part of a subcooling circuit (28) for the fuel, wherein the first heat exchanger (14) is configured to cool fuel provided in the subcooling circuit, and that the subcooling circuit (28) is provided inside the tank connection space (6).

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