



- (51) International Patent Classification:
B63J 4/00 (2006.01) *B63B 13/00* (2006.01)
C02F 1/00 (2006.01)
- (21) International Application Number:
PCT/EP2015/077686
- (22) International Filing Date:
25 November 2015 (25.11.2015)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PA201470751 28 November 2014 (28.11.2014) DK
- (71) Applicant: BAWAT A/S [DK/DK]; Lejrvej 25, DK-3500 Værløse (DK).
- (72) Inventors: HUMMER, Jan; Christiansholms Tværvæg 5, DK-2930 Klampenborg (DK). CHRISTENSEN, Ole Lütke; Blomstervænget 23, DK-2800 Kgs. Lyngby (DK).
- (74) Agent: ZACCO DENMARK A/S; Arne Jacobsens Allé 15, DK-2300 Copenhagen S (DK).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,

[Continued on next page]

(54) Title: BALLAST WATER CIRCULATION SYSTEM, CONTROL UNIT, AND RELATED METHOD

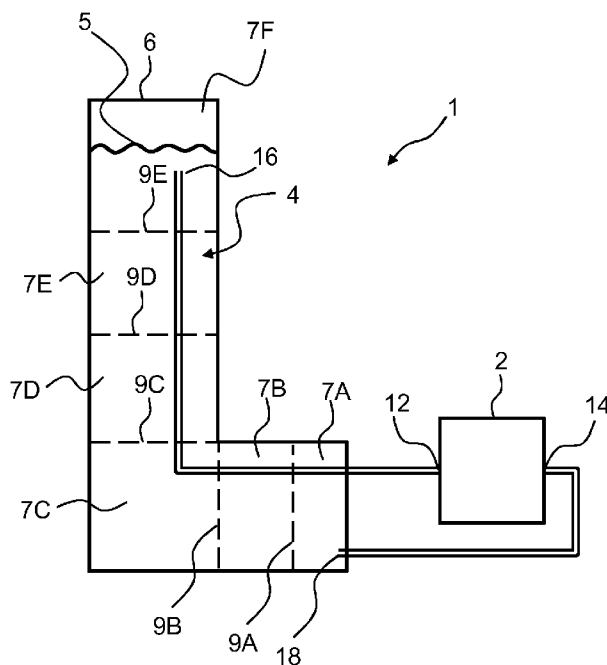


Fig. 1

(57) Abstract: Disclosed are a control unit, a circulation system, and a method for handling ballast water of one or more ballast tanks. The circulation system comprising: a control unit; a pipe structure having a first system inlet and a first system outlet; and a pump unit for pumping ballast water between the first system inlet and the first system outlet, wherein the pump unit is connected to the control unit. The control unit is configured to: obtain a volume parameter indicative of pumped volume; determine if a pump criterion is fulfilled, wherein the pump criterion is based on the volume parameter; and operate the pump unit based on whether the pump criterion is fulfilled or not.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, **Published:**
GW, KM, ML, MR, NE, SN, TD, TG).

— *with international search report (Art. 21(3))*