

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 October 2020 (15.10.2020)



(10) International Publication Number
WO 2020/207791 A1

- (51) International Patent Classification:
G05D 1/02 (2020.01) *B63B 59/10* (2006.01)
- (21) International Application Number:
PCT/EP2020/058231
- (22) International Filing Date:
24 March 2020 (24.03.2020)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1905102.8 10 April 2019 (10.04.2019) GB
- (71) Applicant: JOTUN A/S [NO/NO]; P.O. Box 2021, N-3202 Sandefjord (NO).
- (72) Inventor: OFTEDAHL, Geir Axel; c/o Jotun A/S Hystadveien 167, 3209 Sandefjord (NO).
- (74) Agent: MARKS & CLERK LLP; 62-68 Hills Road, Cambridge CB2 1LA (GB).
- (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: MONITORING MODULE

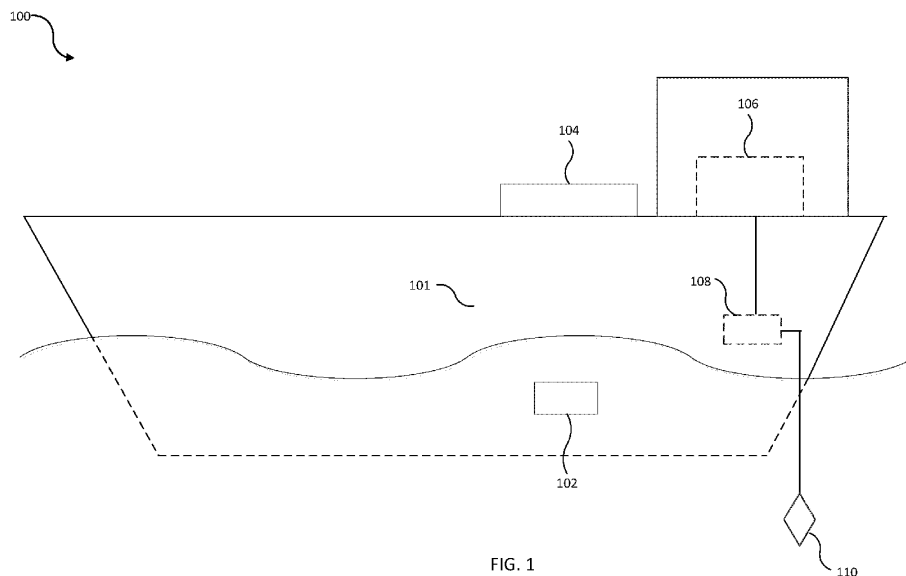


FIG. 1

(57) Abstract: A method of controlling a robot configured to clean a hull of a vessel whilst travelling over said hull, the method comprising: receiving at least one signal indicative of a speed of the vessel; during cleaning being performed by the robot, detecting that cleaning being performed by the robot is to be paused based on (i) determining, from said at least one signal, that the speed of the vessel exceeds a predetermined speed threshold, or (ii) predicting, using said at least one signal, that the speed of the vessel will exceed the predetermined speed threshold within a predetermined time period; in response to said detecting that cleaning being performed by the robot is to be paused, outputting a pause cleaning signal indicating that said cleaning is to be paused; whilst said cleaning is paused, detecting that cleaning performed by the robot is to be restarted based on the determining that the speed of the vessel has dropped below the predetermined threshold, and in response, outputting a restart cleaning signal indicating that cleaning by the robot is to be restarted.

[Continued on next page]

WO 2020/207791 A1

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

Published:

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