

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 September 2022 (29.09.2022)



(10) International Publication Number
WO 2022/200427 A1

(51) International Patent Classification:
B63B 59/08 (2006.01) *G05D 1/02* (2020.01)

(21) International Application Number:
PCT/EP2022/057629

(22) International Filing Date:
23 March 2022 (23.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
21386022.4 23 March 2021 (23.03.2021) EP

(71) Applicant: **JOTUN A/S** [NO/NO]; c/o Jotun A/S, P.O. Box 2021, N-3202 Sandefjord (NO).

(72) Inventors: **COSTA, Joana**; c/o Jotun A/S, Hystadveien 167, 3209 Sandefjord (NO). **KRAPP, Andreas**; c/o Jotun A/S, Hystadveien 167, 3209 Sandefjord (NO). **PAERELI, Sergiu**; c/o Jotun A/S, Hystadveien 167, 3209 Sandefjord (NO). **BOMAN, Kjartan, Tobias**; c/o Jotun A/S, Hystad-

veien 167, 3209 Sandefjord (NO). **JACKSON, Seamus, Michael**; c/o Jotun A/S, Hystadveien 167, 3209 Sandefjord (NO). **LEVANTIS, Manolis**; c/o Jotun A/S, Hystadveien 167, 3209 Sandefjord (NO).

(74) Agent: **PINNEY, Matthew**; Marks & Clerk LLP, Charter House, 62-68 Hills Road, Cambridge Cambridgeshire 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, IT, JM, 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 A VESSEL

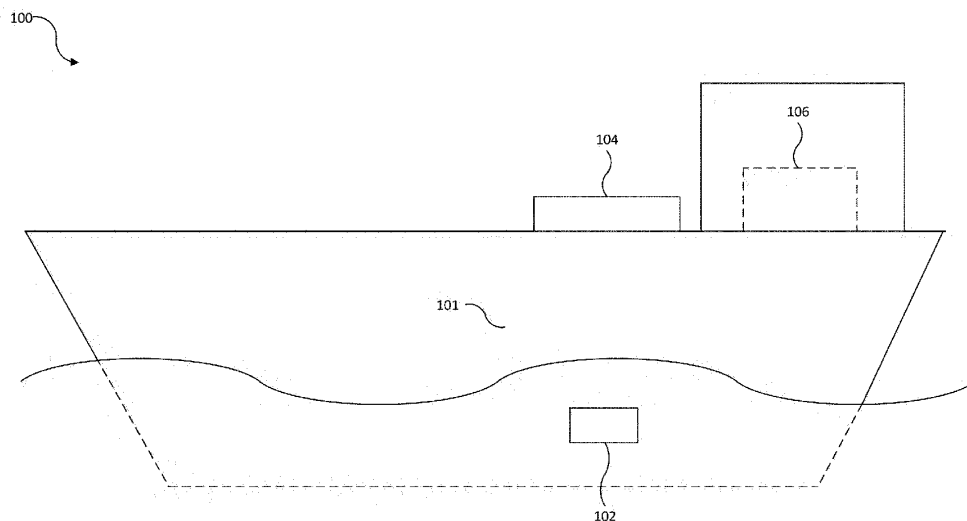


FIG. 1a

(57) Abstract: A computer implemented method of dynamically monitoring the cleanliness of a hull of a vessel during a journey of said vessel. The method is performed on a computing device and comprises: retrieving environmental data from memory of the computing device, the environmental data associated with environment conditions of the vessel; determining a fouling protection value defining a tolerance to fouling associated with a surface of the vessel; and identifying a level of risk of fouling on the surface of the vessel based on the fouling protection value and the environment conditions.

[Continued on next page]



WO 2022/200427 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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*