

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 November 2023 (16.11.2023)



(10) International Publication Number
WO 2023/219505 A1

(51) **International Patent Classification:**
E02B 3/20 (2006.01) *B63B 21/00* (2006.01)

(21) **International Application Number:**
PCT/NL2023/050261

(22) **International Filing Date:**
11 May 2023 (11.05.2023)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
2031853 13 May 2022 (13.05.2022) NL

(71) **Applicant:** AUTOMOORING SOLUTIONS IP B.V.
[NL/NL]; St. Vitusholt 223, 9674 AL Winschoten (NL).

(72) **Inventor:** DUURSMA, Anne Max; c/o St. Vitusholt 223,
9674 AL Winschoten (NL).

(74) **Agent:** RIJSDIJK, Vincent; Bezuidenhoutseweg 57, 2594
AC DEN HAAG (NL).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MU, NA, RW, SC, 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, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,

(54) **Title:** MOORING DEVICE AND MOORING SYSTEM

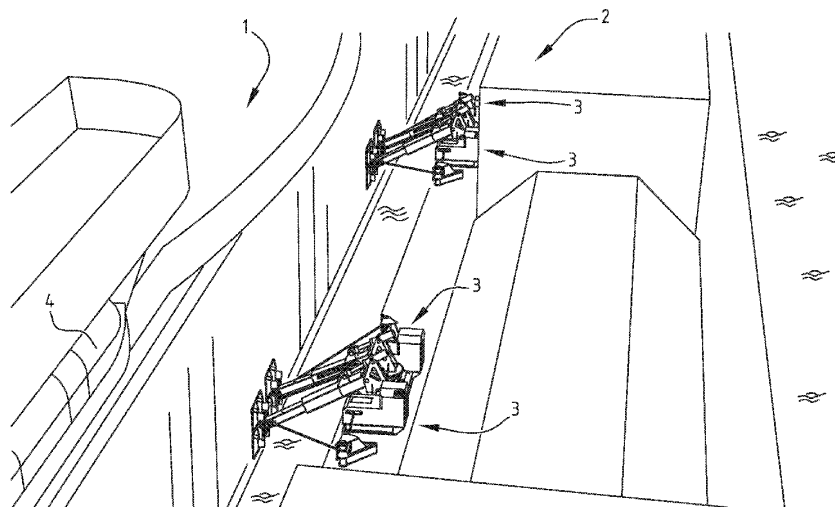


FIG. 1

(57) **Abstract:** The invention relates to a mooring device for mooring a ship, the mooring device having a moored state, in which it engages the ship, and a non-moored state in which it does not engage the ship, the mooring device comprising a base, a movable arm, which is extendable and retractable, a connector carried by the arm for engaging e.g. a ship, a winch, a tensile element having a first end engaged by the winch and a second, opposite end fixed with respect to the second end of the arm and/or the connector, and a distance keeping system configured for keeping a minimum and non-zero distance between the base and the object engaged by the connector. According to the invention, the distance keeping system is integrated with the movable arm. The invention also concerns a mooring system comprising two such mooring devices.

[Continued on next page]



WO 2023/219505 A1

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))*