

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 March 2023 (02.03.2023)



(10) International Publication Number
WO 2023/023761 A1

(51) International Patent Classification:
B63B 59/08 (2006.01) *B63B 59/10* (2006.01)

(21) International Application Number:
PCT/AU2022/050988

(22) International Filing Date:
24 August 2022 (24.08.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2021221633 25 August 2021 (25.08.2021) AU

(71) Applicant: **CLEANSUBSEA OPERATIONS PTY LTD**
[AU/AU]; 20 Sparks Road, Henderson, Western Australia
6166 (AU).

(72) Inventors: **VAN DER ROEST, Dirk**; 20 Sparks Road,
Henderson, Western Australia 6166 (AU). **PYTTE, Aaron**;
20 Sparks Road, Henderson, Western Australia 6166 (AU).

(74) Agent: **GRIFFITH HACK**; GPO Box 1285, Melbourne,
Victoria 3001 (AU).

(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, 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: MARINE CLEANING

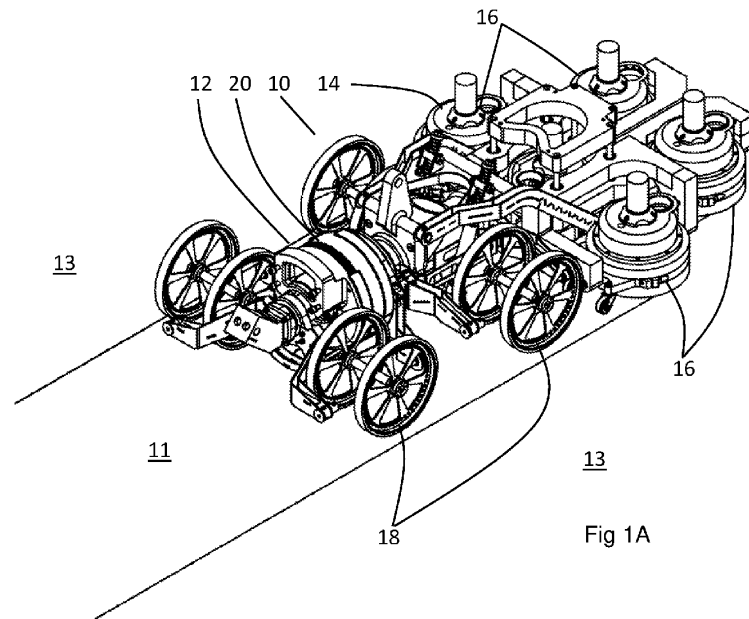


Fig 1A

(57) Abstract: A cleaning machine (10) for cleaning a submerged surface (11) has a drive device (12) and at least one cleaning head (14) disposed forward of the drive device in a forward direction of travel of the cleaning machine. The drive device has a pump (20), a pump inlet (22) for receiving material cleaned from the submerged surface, and a pump outlet (24) for output of the material, and traction means (18) for propelling the cleaning machine along the submerged surface, wherein contact of the traction means with the submerged surface is within a width cleaned by the at least one cleaning head (14). The at least one cleaning head is supported by a support structure (70) projecting from the drive device (12). One or more magnets (36) can be positioned by coarse and/or fine distance adjustment relative to the submerged surface.

WO 2023/023761 A1

[Continued on next page]

(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*