

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 May 2018 (24.05.2018)



(10) International Publication Number
WO 2018/090104 A1

- (51) International Patent Classification:
B66C 13/06 (2006.01) *B66C 13/08* (2006.01)
- (21) International Application Number:
PCT/AU2017/051277
- (22) International Filing Date:
21 November 2017 (21.11.2017)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2016904755 21 November 2016 (21.11.2016) AU
2017903055 02 August 2017 (02.08.2017) AU
- (71) Applicant: TENSA EQUIPMENT PTY LTD [AU/AU];
1131 Hay Street, West Perth, WA 6005, Australia, West
Perth, Western Australia 6005 (AU).
- (72) Inventor: MARKWELL, Derick; 1131 Hay Street, West
Perth, Western Australia 6005 (AU).
- (74) Agent: WATERMARK INTELLECTUAL PROPER-
TY PTY LTD; Level 1, 109 Burwood Road, Hawthorn,
Victoria 3122 (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, 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, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(54) Title: APPARATUS FOR CONTROLLING ORIENTATION OF SUSPENDED LOADS

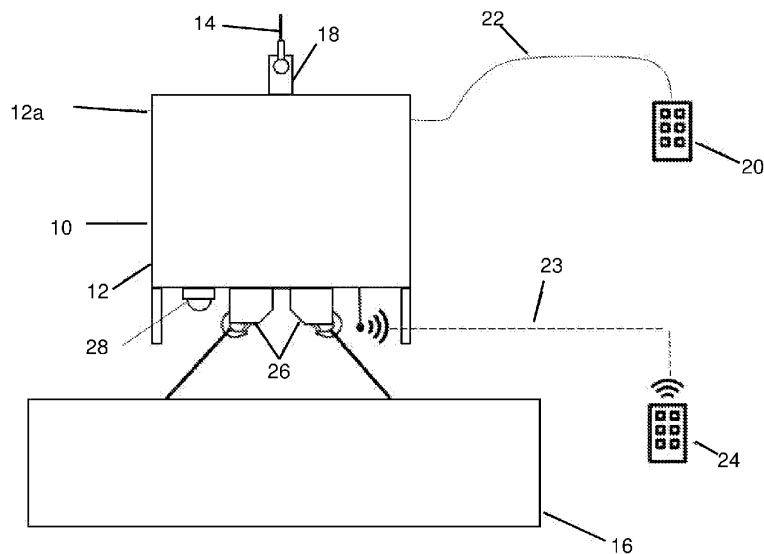


Fig 1

(57) Abstract: A rotator apparatus (10,100, 200) for rotationally positioning a suspended load (16). A flywheel (44, 144) can be directly or indirectly driven by a motor (40, 140). Vanes (50, 150) on a fan (45) or on the flywheel can be used to provide additional rotational control through air resistance/braking. A controller (20, 24, 120, 124) can provide wired or wireless control. Thrusters (52) can provide additional rotational impetus or resistance. One or more load cells (54, 232, 234) can provide load sensing. Cameras (28) can be used to visualise the load and can record load moving operations and details of the load for logistics tracking and safety. The attachment part (202) and/or the load support (216) can be connected to the body via a respective pivot (204,214). The apparatus can include replaceable or rechargeable batteries (206, 210), such as within in a removable container (230), preferably supported by at least one drawer (231), which drawer may be mounted on telescopic drawer slides (212). The replaceable or rechargeable batteries (206, 210) can be provided

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(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))

as a cassette arrangement whereby the batteries plug in and are removable as a unit. At least one hook (157) for suspending a load from the rotator can include a groove or recess (158) to restrict or prevent load rotation.