

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
18 December 2014 (18.12.2014)



(10) International Publication Number
WO 2014/200566 A8

- (51) International Patent Classification:
B64B 1/66 (2006.01)
- (21) International Application Number:
PCT/US2014/000145
- (22) International Filing Date:
12 June 2014 (12.06.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/833,973 12 June 2013 (12.06.2013) US
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- (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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.

(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, 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:

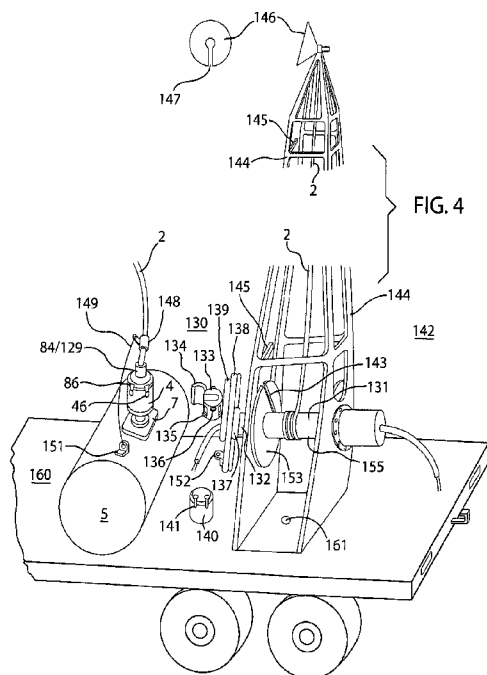
— with international search report (Art. 21(3))

(88) Date of publication of the international search report:
5 February 2015

(48) Date of publication of this corrected version:
23 July 2015

[Continued on next page]

(54) Title: AEROSTAT ANCHORING, DEPLOYMENT, EXTENDED DURATION AND RECOVERY APPARATUS



(57) Abstract: A tethered aerostat with a ground based deployment, extended duration and recovery system to accommodate a weather vaning deployed aerostat while maintaining a supply of a lift gas by having a rotatable tether pipe and a hollow tether. Included is a rotatable tether pipe device assembly with rotor and stator components disposed in an air tight housing assembly to provide a ground based gas maintenance system. An aerostat deployment buoyancy control maintenance and combined recovery platform is provided. The tethered aerostat systems and method increase deployment duration and allow more systems to be controlled and maintained on the ground without interrupting aerostat operational capabilities.



(15) Information about Correction:
see Notice of 23 July 2015