



(51) International Patent Classification:
H01Q 3/00 (2006.01)

(21) International Application Number:
PCT/US2011/041827

(22) International Filing Date:
24 June 2011 (24.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/358,938 27 June 2010 (27.06.2010) US
61/452,639 14 March 2011 (14.03.2011) US

(71) Applicant (for all designated States except US): SEA
TEL, INC. [US/US]; 4030 Nelson Avenue, Concord, CA
94520 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BLANEY, Peter
[US/US]; Sea Tel, Inc., 4030 Nelson Avenue, Concord,
CA 94520 (US).

(74) Agents: JOHNSON, Victor E. et al.; Morgan, Lewis &
Bockius, LLP, One Market, Spear Street Tower, San Fran-
cisco, CA 94105 (US).

(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, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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,
ML, MR, NE, SN, TD, TG).

Published:

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

[Continued on next page]

(54) Title: THREE-AXIS PEDESTAL HAVING MOTION PLATFORM AND PIGGY BACK ASSEMBLIES

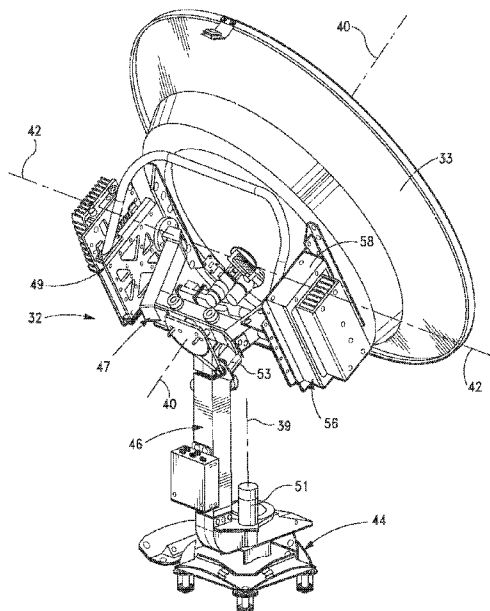


FIG. 3

(57) Abstract: A rotationally-stabilizing tracking antenna system suitable for mounting on a moving structure includes a three-axis pedestal for supporting an antenna about a first azimuth axis, a second cross-level axis, and a third elevation axis, a three-axis drive assembly for rotating a vertical support assembly relative to a phase assembly about the first azimuth axis, a cross-level driver for pivoting a cross-level frame assembly relative to the vertical support assembly about the second cross-level axis, and an elevation driver for pivoting an elevation frame assembly relative to the cross-level frame assembly about the third elevation axis, a motion platform assembly affixed to and movable with the elevation frame assembly.



-
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))* (88) **Date of publication of the international search report:**
7 June 2012