

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 October 2002 (10.10.2002)

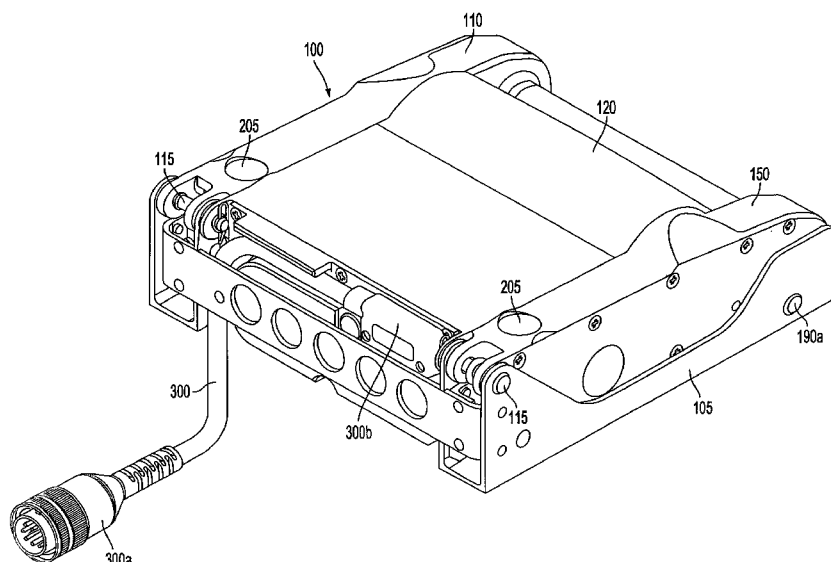
PCT

(10) International Publication Number
WO 02/079071 A3

- (51) International Patent Classification⁷: **B65G 13/02**
- (21) International Application Number: PCT/US02/09476
- (22) International Filing Date: 28 March 2002 (28.03.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/279,414 29 March 2001 (29.03.2001) US
- (71) Applicant (for all designated States except US): **ANCRA INTERNATIONAL LLC** [US/US]; 120 Chapparral Court, Suite 160, Anaheim, CA 92808 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LEINGANG, Alan, F.** [US/US]; 28601 Chimney Rock Circle, Trabuco Canyon, CA 92679 (US). **MCCONNELL, Matthew, S.** [US/US]; 848 Starcrest Street, Brea, CA 92821 (US). **WOLFE, Robert, M.** [US/US]; 24042 Sprig Street, Mission Viejo, CA 92691 (US).
- (74) Agents: **MESSINA, Michael, A.** et al.; McDermott, Will & Emery, 600 13th Street, N.W., Washington, DC 20005-3096 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report

[Continued on next page]

(54) Title: CARGO POWER DRIVE UNIT



(57) **Abstract:** An apparatus (100) for conveying cargo is provided, comprising a support base (105) and a drive assembly (110) pivotably mounted to the support base (105) for vertical movement. The drive assembly (110) comprises a roller (120) and a first electronically controlled electric motor (125) for rotating the roller (120). A lift assembly has a second electronically controlled motor (155) for moving the drive assembly (110) relative to the support base (105) from a retracted position to an extended position with the roller (120) in driving abutment against the cargo. An electronic controller (195) controls the first (125) and second (155) motors.



WO 02/079071 A3



(88) Date of publication of the international search report:

16 October 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.