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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 February 2010 (11.02.2010)

PCT

(10) International Publication Number
WO 2010/016805 A1

(51) International Patent Classification:
B65G 47/76 (2006.01)

(21) International Application Number:
PCT/SG2009/000275

(22) International Filing Date:
6 August 2009 (06.08.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/086,475 6 August 2008 (06.08.2008) US

(71) Applicant *(for all designated States except US)*: **PTERIS GLOBAL LTD.** [SG/SG]; 28 Quality Road, Singapore 618828 (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SNG, John, Hee Kwee** [SG/SG]; 37 Woo Mon Chew Road, Singapore 455107 (SG). **CHUA, Choon Beng** [SG/SG]; Blk 281, Toh Guan Road, #21-219, Singapore 600281 (SG). **RAJESHKUMAR, Rajendran** [SG/SG]; Blk 627, Jurong West Street 65, #13-382, Singapore 640627 (SG). **JAYAGOPI, Muthiah** [SG/SG]; Blk 517E, Jurong West Street 52, #07-591, Singapore 645517 (SG).

(74) Agent: **CHIN, Dexter**; Horizon IP Pte Ltd., 7500A Beach Road, #04-306/308, The Plaza, Singapore 199591 (SG).

(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, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, 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))*

— *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))*

(54) Title: HIGH SPEED DIVERTER

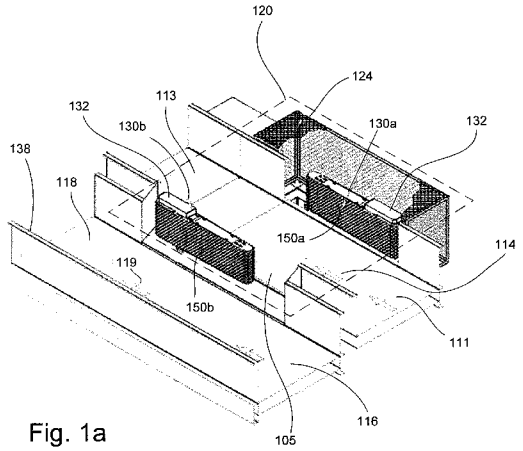


Fig. 1a

(57) Abstract: A diverter assembly for handling articles transported on a conveying surface (113) is disclosed. The diverter assembly includes at least one diverter arm (130a, 130b) and a motor (260) coupled to a drive arrangement for swinging the diverter arm over the conveying surface (113). An inverter controller is provided for operating the motor at a plurality of speeds. A sensor arrangement (831) is coupled to the inverter controller for monitoring the position of the diverter arm. The sensor arrangement sends a slow-down signal to the inverter controller when the diverter arm reaches a pre-determined position, causing the inverter controller to operate the motor at a slower speed.

WO 2010/016805 A1