

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 April 2008 (03.04.2008)

PCT

(10) International Publication Number
WO 2008/037686 AI

(51) International Patent Classification:
B65G 17/06 (2006.01) **B65G 21/18** (2006.01)

(21) International Application Number:
PCT/EP2007/060091

(22) International Filing Date:
24 September 2007 (24.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06121202.3 25 September 2006 (25.09.2006) EP

(71) Applicant (for all designated States except US): **SPECIALTY CONVEYOR B.V.** [NL/NL]; De Corantijn 81, NL- 1689 AN Zwaag (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BROERS, Johannes, Wilhelmus** [NL/NL]; Noorderdracht 56, NL- 1696 AE Oosterblokker (NL). **HOPMAN, Jozef, Walter, Maria** [NL/NL]; Casparuslaan 310, NL- 1382 KP Weesp (NL). **BALK, Wouter** [NL/NL]; Rijksweg 135, NL-1396 JK Baambrugge (NL).

(74) Agents: **METMAN, Karel, Johannes** et al; Overschiestraat 180, NL- 1062 XK Amsterdam (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, **BR**, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

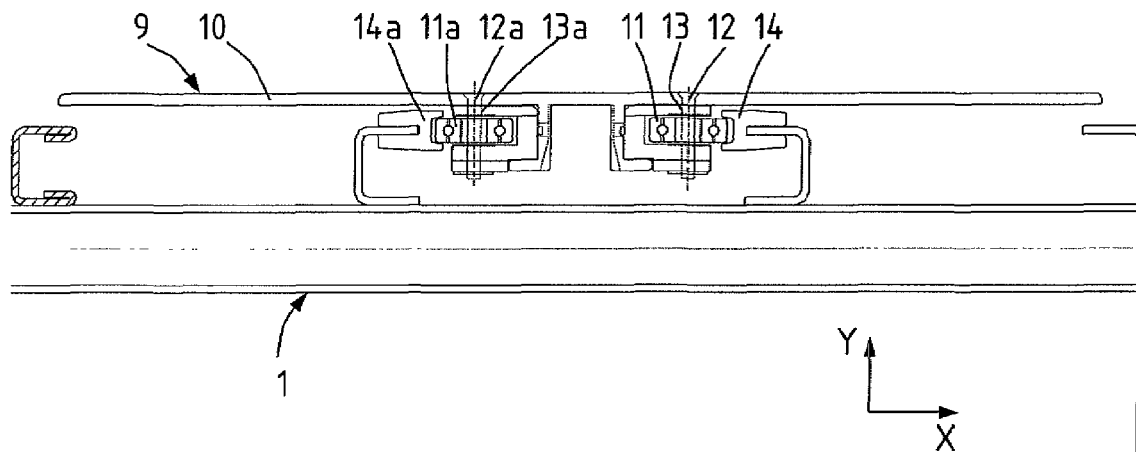
(48) Date of publication of this corrected version:

25 September 2008

(15) Information about Correction:

see Notice of 25 September 2008

(54) Title: CONVEYOR



(57) Abstract: The invention relates to a conveyor for conveying piece goods or the like through a helical path around a central axis in a vertical direction, comprising a frame (1) which supports an endless conveyor belt which is movable along the helical path in a conveying direction. The conveyor belt includes carrier plates (9) which are movably connected to each other. The frame (1) includes at least a guide (14) and at least a number of carrier plates (9) comprise at least a guide roller (11) rotatable about an axis of rotation (12). The guide roller (11) has at least a first guide roller surface (17) which is in contact with the guide (14) in a first contact location (19), and a second guide roller surface (18) which is in contact with the guide (14) in a second contact location (20). The first and second contact locations (19, 20) are spaced from each other and the normal to the first guide roller surface (17) in the first contact location (19) deviates from the normal to the second guide roller surface (18) in the second contact location (20). The invention provides a conveyor with a high driving efficiency as a consequence of low resistance between the carrier plate (9) and the guide (14).

WO 2008/037686 AI