

(19) World Intellectual Property Organization
International Bureau



INTERNATIONAL BUREAU OF PATENT COOPERATION
35, rue de la Harpe, CH-1015, Genève, Suisse
P.O. Box 6809, CH-1211, Genève, Suisse
P.O. Box 17, 1100, Rue de la Loi, Bruxelles, Belgique
P.O. Box 17, 1100, Rue de la Loi, Bruxelles, Belgique

(43) International Publication Date
30 November 2000 (30.11.2000)

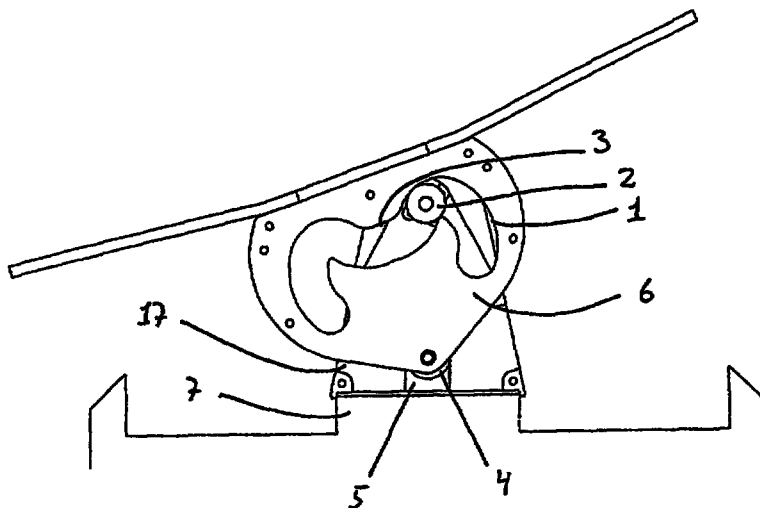
PCT

(10) International Publication Number
WO 00/71446 A1

- (51) International Patent Classification⁷: B65G 47/38, 47/96
- (21) International Application Number: PCT/DK00/00272
- (22) International Filing Date: 22 May 2000 (22.05.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PA 1999 00719 21 May 1999 (21.05.1999) DK
PA 2000 00342 2 March 2000 (02.03.2000) DK
60/193,443 31 March 2000 (31.03.2000) US
- (71) Applicant (for all designated States except US):
CRISPLANT A/S [DK/DK]; P.O. Pedersens Vej 10,
DK-8200 Århus N (DK).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ABILDGAARD,
Anne-Mette, Hjortshøj [DK/DK]; Knudrigsgade 52,
DK-8000 Århus C (DK). CHRISTENSEN, Jan, Gulløv
[DK/DK]; Rindsvej 32, 1. mf., DK-8900 Randers (DK).
- (74) Agent: PLOUGMANN, VINGTOFT & PARTNERS
A/S; Sankt Annæ Plads 11, P.O. Box 3007, DK-1021
Copenhagen K (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT, AT
(utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CN, CR, CU, CZ, CZ (utility model), DE, DE (utility
model), DK, DK (utility model), DM, DZ, EE, EE (utility
model), ES, FI, FI (utility model), GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility
model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT,
TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, 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), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— With international search report.

[Continued on next page]

(54) Title: A SORTING CONVEYER WITH A TILTING MECHANISM



(57) Abstract: A tilting mechanism comprising an article-supporting member, such as a tray or a conveyor belt for a sorter for transporting and sorting various articles is disclosed. The article-supporting member may be held tilted about two parallel axes each being fixed with respect to the tilting part or the stationary part and being movable along a predetermined path with respect to the other part. Further is disclosed a sorter comprising article-supporting members arranged on tilting mechanisms to tilt the members when passing curves and during induction of articles from the side of the sorter so as to prevent articles from sliding off the members and thus enable the sorter to operate at much higher conveying speeds than known sorters.

WO 00/71446 A1



— *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.*

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.