

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 November 2024 (14.11.2024)



(10) International Publication Number
WO 2024/233700 A1

(51) International Patent Classification:

B65B 37/00 (2006.01) *B65G 47/50* (2006.01)
B65B 37/16 (2006.01) *B65B 43/56* (2006.01)
B65B 57/14 (2006.01) *B65B 57/16* (2006.01)

(21) International Application Number:

PCT/US2024/028425

(22) International Filing Date:

08 May 2024 (08.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/501,456 11 May 2023 (11.05.2023) US

(71) Applicant: **RANPAK CORP.** [US/US]; 7990 Auburn Road, Concord Township, Ohio 44077 (US).

(72) Inventor: **VAN DER KAAP, Jordy**; Beckerpark 10, 6333EW Schimmert (NL).

(74) Agent: **JACOBS, Christopher B.**; 1621 Euclid Avenue, 19th Floor, Cleveland, Ohio 44115 (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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,

(54) Title: PRODUCT PACKAGING SYSTEM AND METHOD

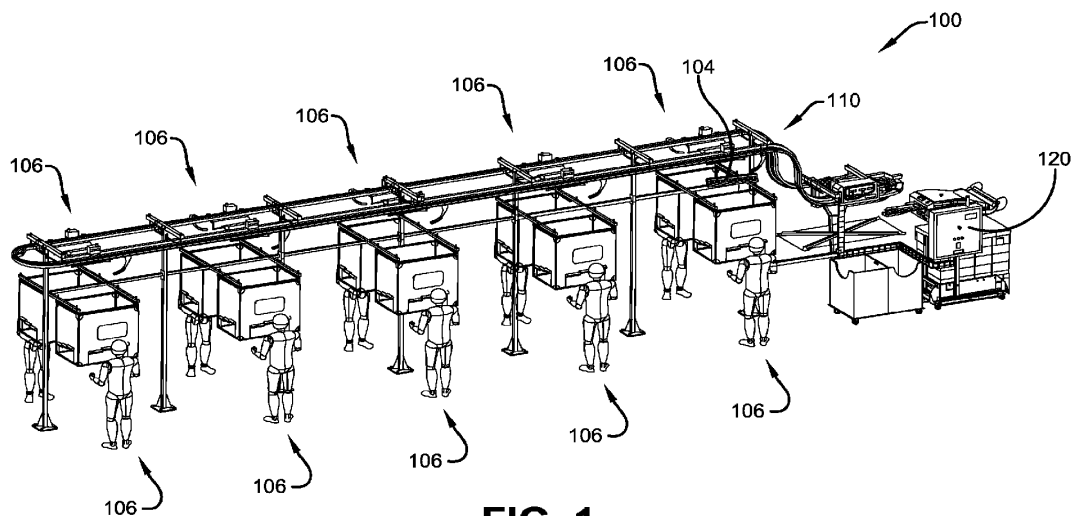


FIG. 1

(57) Abstract: A packaging system and method supplies dunnage products to a distribution assembly for distribution from a supply to a selected one of a plurality of packing stations. The distribution assembly includes a closed distribution path, at least one dunnage carrier configured to transport the dunnage product along the distribution path, a plurality of control surfaces, and a dunnage deflector at each packing station. Each of the control surfaces has multiple cam paths. The dunnage carrier includes at least one cam follower configured to engage a selected one of the cam paths. And the dunnage deflector is selectively operable to engage the dunnage product in the dunnage carrier to direct the cam follower onto the selected cam path to deliver the dunnage product to the selected one of the packing stations.

[Continued on next page]



WO 2024/233700 A1

WO 2024/233700 A1

LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

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