



(51) International Patent Classification:
B65B 3/16 (2006.01)

(21) International Application Number:
PCT/US2010/028956

(22) International Filing Date:
26 March 2010 (26.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/163,536 26 March 2009 (26.03.2009) US

(71) Applicant (for all designated States except US): **ILC DOVER LP** [US/US]; One Moonwalker Road, Frederica, DE 19946-2080 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LLOYD, Steven, M.** [US/US]; 126 Dodge Drive, Smyrna, DE 19977 (US). **PERSANS, Adams** [US/US]; 2654 Slaughter Station Road, Hartly, DE 19953 (US). **INAMDAR, Sunil** [US/US]; 42 North Cummings Drive, Middletown, DE 19709 (US).

(74) Agent: **PAVELKO, Thomas, P.**; Novak Druce & Quigg LLP, 1300 I Street, NW, Suite 1000 West Tower, Washington, DC 20005 (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, 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, TH, 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, LR, 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).

[Continued on next page]

(54) Title: THERMOPLASTIC ELASTOMERIC ATTACHMENT SYSTEM FOR TRANSFER OF PARTICULATE MATERIALS

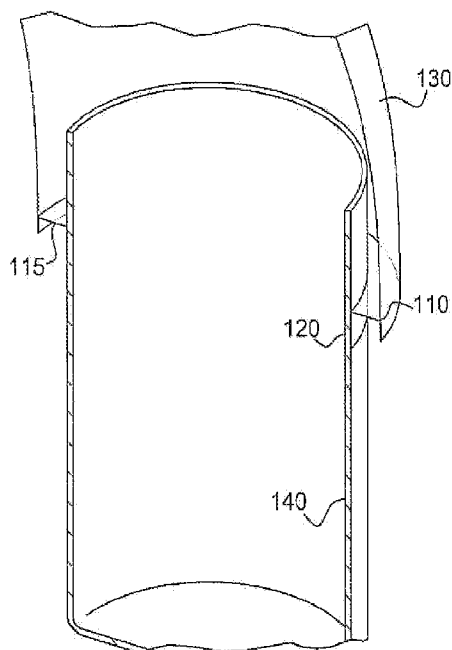


FIG. 1

(57) Abstract: A system for attaching a thin film sleeve to a drum using a flange made of thermoplastic material. The inner surface of the flange having an integrally molded portion, where the integrally molded portion is used to create a seal with a different thermoplastic material. The second thermoplastic material can be attached to the drum, thereby forming a seal between the drum, the second thermoplastic material, and the flange. The outer surface of the flange being integrally sealed with the thin film sleeve, thereby creating a barrier between any product being transported through the sleeve to the drum.



Published:

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