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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 November 2013 (07.11.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/166515 A1

(51) International Patent Classification:
H01L 21/673 (2006.01)

(21) International Application Number:
PCT/US2013/039769

(22) International Filing Date:
6 May 2013 (06.05.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/643,158 4 May 2012 (04.05.2012) US

(71) Applicant: **ENTEGRIS, INC.** [US/US]; 129 Concord Road, Billerica, MA 01821 (US).

(72) Inventor: **GREGERSON, Barry**; 19550 Excelsior Boulevard, Deephaven, MN 55113 (US).

(74) Agents: **CHRISTENSEN, Douglas, J.** et al.; Christensen Fonder P.A., 33 South Sixth Street, Suite 3940, Minneapolis, MN 55402 (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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, 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, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, 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))*

WO 2013/166515 A1

(54) Title: WAFER CONTAINER WITH DOOR MOUNTED SHIPPING CUSHIONS

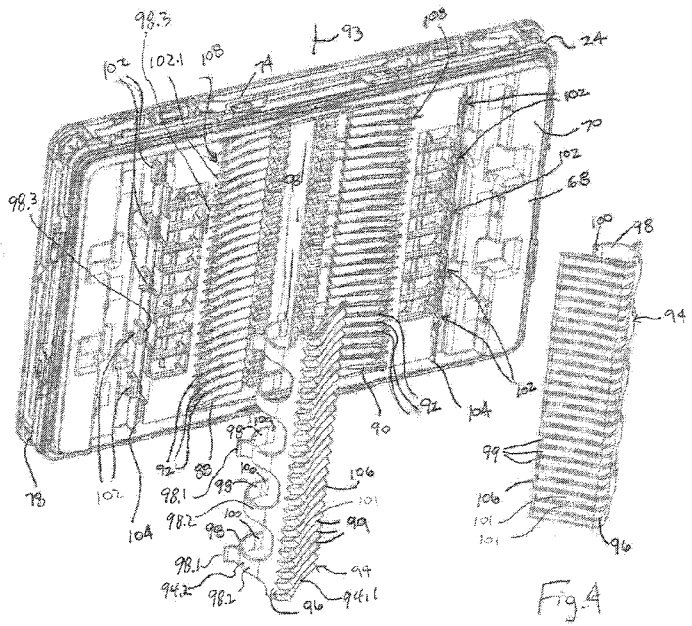


Fig. 4

(57) Abstract: A cushioned wafer container system having removable wafer cushions for transporting large-diameter wafers. The system includes a wafer container enclosure defining a front opening and comprising a rear wall, and a plurality of wafer supports defining a plurality of slots; a front door configured to attach to the wafer enclosure at the front opening and defining a front side and a rear side; a primary wafer cushion coupled to a rear side of the front door at a central portion of the front door, the primary wafer cushion defining a plurality of wafer grooves, each of the grooves of the primary wafer cushion aligned with a slot of the wafer supports; and a first removable wafer cushion attachable to the rear side of the front door adjacent the primary wafer cushion, the first removable wafer cushion defining a plurality of wafer-receiving grooves in alignment with the grooves and slots.