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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 November 2020 (12.11.2020)

WIPO | PCT

(10) International Publication Number
WO 2020/223755 A1

(51) International Patent Classification:
B65G 1/04 (2006.01) *B66F 9/07* (2006.01)
B66C 17/20 (2006.01) *B66F 9/075* (2006.01)

(21) International Application Number:
PCT/AU2020/050388

(22) International Filing Date:
22 April 2020 (22.04.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2019901554 07 May 2019 (07.05.2019) AU

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(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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, KM, ML, MR, NE, SN, TD, TG).

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

(54) Title: SYSTEM FOR HANDLING AND STORAGE OF ISO CONTAINERS

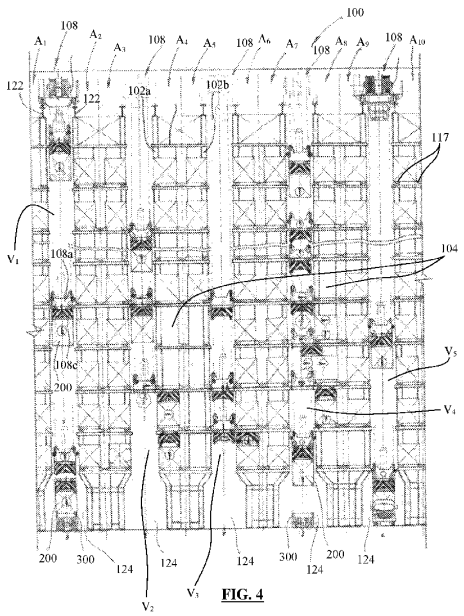

FIG. 4

(57) Abstract: A system (100) for handling and storage of containers (200), system (100) comprising a structure (102) having storage cells (104) therein. Cells (104) are configured to store a container (200). Cells (104) are arranged in a rectangular prismatic array comprising a plurality of arrays (A_1, A_2 ... A_{16}). Each array comprises columns (C_1, C_2 ... C_{15}) and rows (R_1, R_2 ... R_{18}). Arrays (A_1, A_2 ... A_{16}) are arranged in pairs on opposite sides of void areas (V_1, V_2 ... V_8), each of which extends vertically and horizontally through the structure (102). Each cell has a container access opening (106) communicating with its associated void area (V_1, V_2 ... V_8). Container cranes (108) are provided for each void area (V_1, V_2 ... V_8). Container engagement assemblies (108c) are releasably engaged with respective opposite longitudinal ends of carrier (108a) of cranes (108). Upon movement into a cell (104), assemblies (108c) engage and are vertically supported by horizontal members (102c) at the top of the cell.

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