

(51) International Patent Classification:
G07B 15/02 (2011.01)(21) International Application Number:
PCT/US2010/047370(22) International Filing Date:
31 August 2010 (31.08.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/552,109 1 September 2009 (01.09.2009) US
12/649,149 29 December 2009 (29.12.2009) US(71) Applicant (for all designated States except US): **CONTAINERTRAC, INC.** [US/US]; 1321 67th Street, Emeryville, CA 94608 (US).

(72) Inventors; and

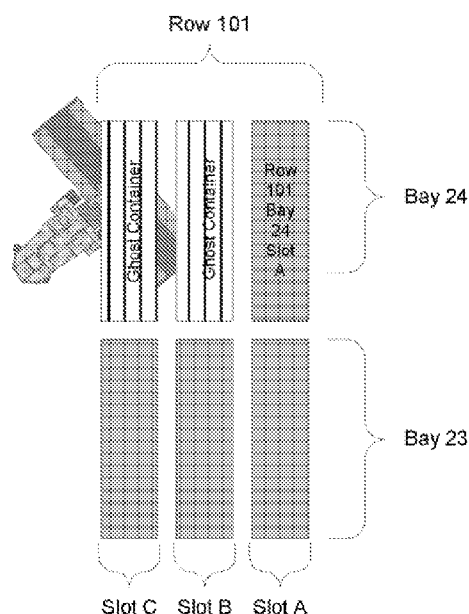
(75) Inventors/Applicants (for US only): **TAN, Han-Shue** [US/US]; 1181 Sunlight Circle, Concord, CA 94518 (US). **CHUANG, Ke-Ren** [US/US]; 6922 JohnstonRoad, Pleasanton, CA 94588 (US). **HUANG, Jihua** [CN/US]; 116 Schooner Court, Richmond, CA 94804 (US). **WARF, Gregory, Keith** [US/US]; 516 Emerald Hills Circle, Fairfield, CA 94533 (US).(74) Agents: **WARD, Thomas, A.** et al.; Fliesler Meyer LLP, 650 California Street, Fourteenth Floor, San Francisco, CA 94108 (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,

[Continued on next page]

(54) Title: AUTOMATIC ERROR CORRECTION FOR INVENTORY TRACKING AND MANAGEMENT SYSTEMS USED AT A SHIPPING CONTAINER YARD

**FIG. 8B**

(57) Abstract: A method automatically detects and corrects errors in a container inventory database associated with a container inventory tracking system of a container storage facility. A processor in the inventory tracking system performs a method to detect errors; this method of error detection obtains a first data record, identifies an event (e.g., pickup or drop-off of a container, or movement of handling equipment) associated with the first record, provides a list of error types based on the identified event, and determines whether a data error has occurred through a checking process. To correct the errors, this method further sets search criteria based on the error detection results, queries the inventory tracking database using the set criteria, determines error candidates based on the query results, evaluates the error candidates to identify a match or matches among the error candidates, and corrects the error(s) by modifying the error detection results together with the identified match or matches.



ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, 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))*