

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
18 January 2007 (18.01.2007)

PCT

(10) International Publication Number  
**WO 2007/008213 A2**

(51) International Patent Classification:  
*G08B 17/12* (2006.01)

(74) Agent: **CASCIO, Anthony, Thomas**; 423 Broadway Ave., Suite 314, Millbrae, CA 94030-1905 (US).

(21) International Application Number:  
PCT/US2005/026097

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 22 July 2005 (22.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/897,612 23 July 2004 (23.07.2004) US

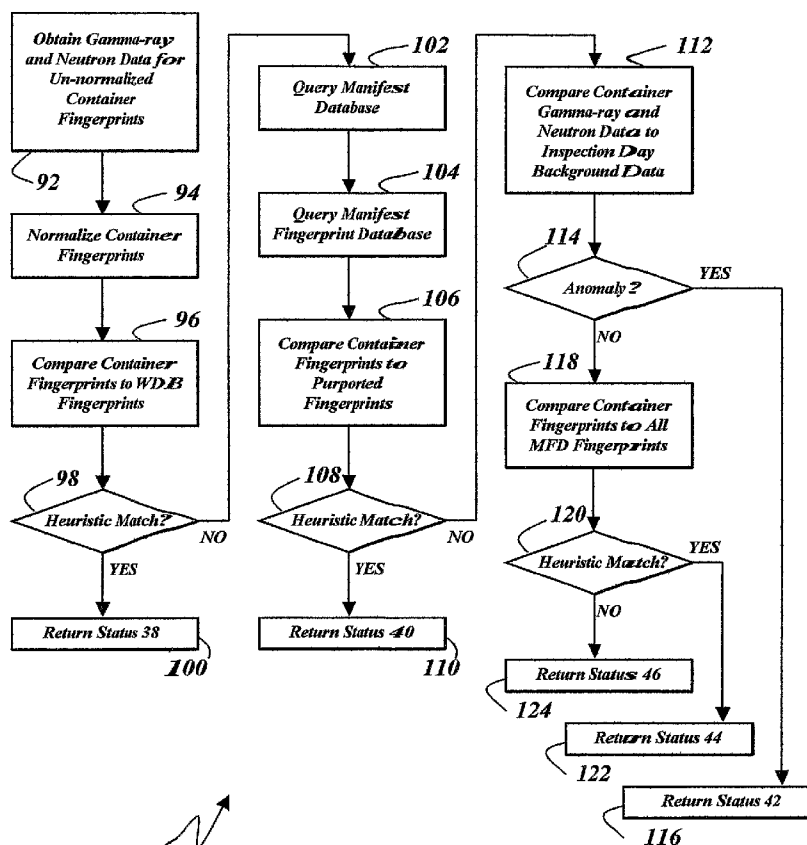
(71) Applicant (for all designated States except US): **VERTAINER CORPORATION, A DELAWARE CORPORATION** [US/US]; 1127 Pope Street, Suite 201, St. Helena, CA 94574 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **ALIOTO, John, I.**; 1127 Pope Street, Suite 201, St. Helena, CA 94574 (US). **GREER, Kenneth, L.**; 1127 Pope Street, Suite 201, St. Helena, CA 94574 (US).

[Continued on next page]

(54) Title: INVERSE RATIO OF GAMMA-RAY AND NEUTRON EMISSIONS IN THE DETECTION OF RADIATION SHIELDING IN CONTAINERS



(57) Abstract: The presence of radiation shielding material concealing illegitimate content in a container is detected by obtaining each of measured gamma-ray data and measured neutron data from the container, and comparing the measured gamma-ray and neutron data to expected gamma-ray and neutron data. An anomaly between the measured data and the expected data is an indicum of the presence of such material shielding such illegitimate content.



**Published:**

— without international search report and to be republished upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*