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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 November 2019 (28.11.2019)

WIPO | PCT

(10) International Publication Number
WO 2019/224506 A1

(51) International Patent Classification:
G06Q 10/08 (2012.01)

(21) International Application Number:
PCT/GB2018/051370

(22) International Filing Date:
21 May 2018 (21.05.2018)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **SMITHS DETECTION-WATFORD LIMITED** [GB/GB]; Century House, Maylands Avenue, Hemel Hempstead HP2 7DE (GB).

(72) Inventor: **NORTON, Timothy**; c/o Smiths Detection-Watford Limited, Century House, Maylands Avenue, Hemel Hempstead HP2 7DE (GB).

(74) Agent: **LEACH, Sean**; Mathys & Squire LLP, The Shard, 32 London Bridge Street, London SE1 9SG (GB).

(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, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

(54) **Title:** SYSTEM AND METHOD FOR INSPECTING ITEMS

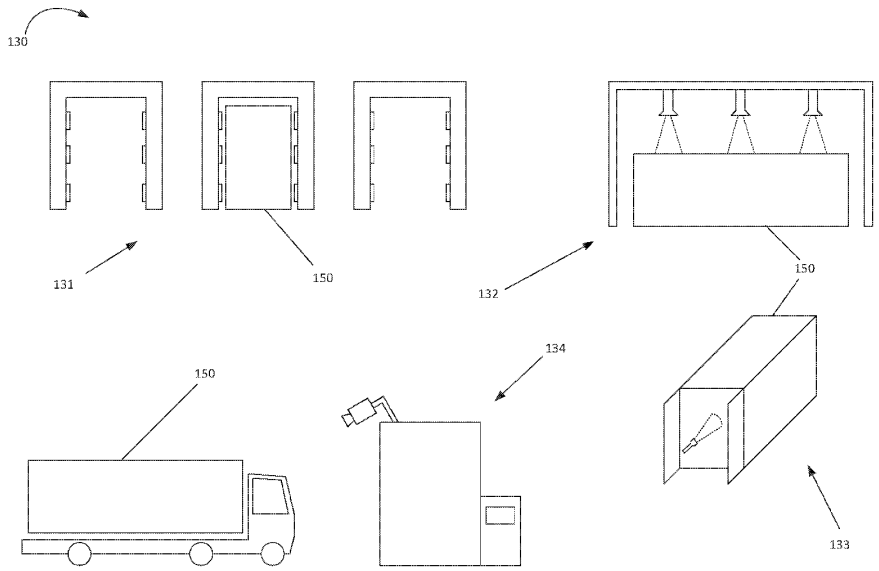


Fig. 1

(57) **Abstract:** A system for inspecting items in transit through a transit facility, wherein the system comprises a plurality of data collection units located at a plurality of transit facilities; a decision entity, in connection with the data collection unit at a selected one of the transit facilities; and a server connectable to each of the data collection units. The server comprising a data store storing inspection data, obtained from the data collection units, indicative of instances of item inspection at the plurality of transit facilities; and a processor coupled to the data store and operable to update the data store based on data gathered at the data collection units. Wherein, for an item in transit through a transit facility, the system is configured to obtain item data providing an indication of a predicted level of inspection for the item and provide said item data to the decision entity; obtain, from the decision entity, a decided level of inspection for the item; and output a command signal to control inspection of the item in accordance with a final level of inspection assigned to

[Continued on next page]

WO 2019/224506 A1

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))*

the item, wherein the final level of inspection is selected based on an indication of: (i) the predicted level of inspection for the item, and (ii) the decided level of inspection for the item.