

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
01 September 2022 (01.09.2022)



(10) International Publication Number
WO 2022/180514 A1

(51) International Patent Classification:

G06Q 10/06 (2022.01) G06Q 50/28 (2022.01)
G06Q 10/08 (2022.01) G06Q 30/06 (2022.01)

(21) International Application Number:

PCT/IB2022/051552

(22) International Filing Date:

22 February 2022 (22.02.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/153,212 24 February 2021 (24.02.2021) US

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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, IT, JM, 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))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: SYSTEM AND METHODS FOR AUTOMATED MANAGEMENT OF CONSIGNMENT CYCLES

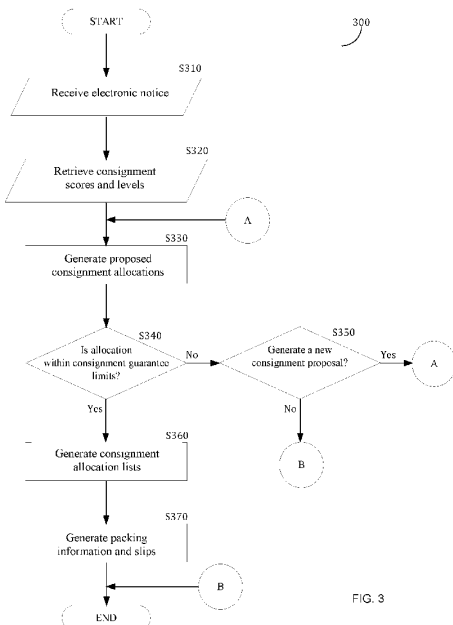


FIG. 3

(57) Abstract: Systems and methods for automated management of a consignment cycle. A method includes: training a machine learning model using a training dataset, wherein the training dataset includes consignment transactions, wherein the machine learning model is trained to output proposed consignment allocations over a distribution chain; retrieving, from a first database, consignment scores and current consignment levels for consignees among the distribution chain; generating a proposed consignment allocation for each of the consignees by applying the machine learning model to features extracted from an electronic notice, the consignment scores, and the current consignment levels; generating a consignment allocation list based on the proposed consignment allocation; generating packing information based on the consignment allocation list; and printing packing slips for at least one first consignee of the consignees based on the packing information, wherein each first consignee has a consignment allocation according to the generated consignment allocation list.

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