



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

(21) International Application Number:
PCT/IB2020/053043

(22) International Filing Date:
31 March 2020 (31.03.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
16/373,329 02 April 2019 (02.04.2019) US

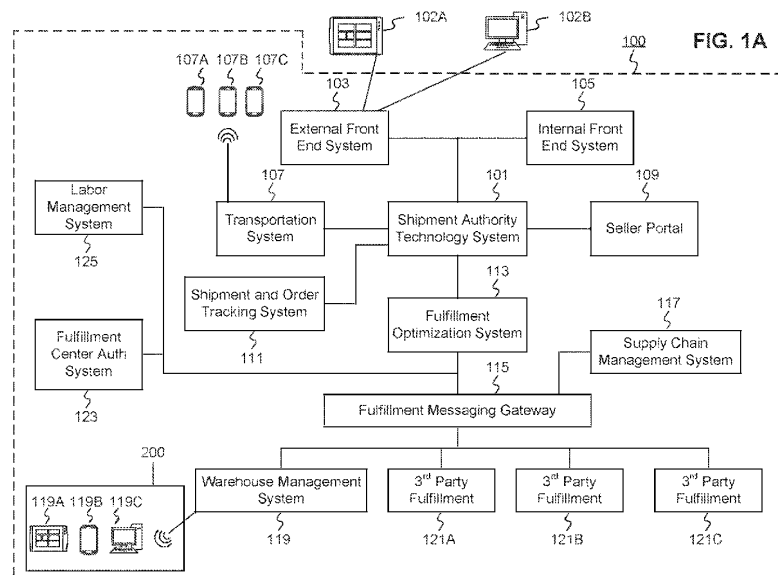
(71) Applicant: **COUPANG CORP.** [KR/KR]; 570 Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR).

(72) Inventors: **HONG, Sun Young**; 570 Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR). **JUNG, Hyun Yop**; 570

Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR). **KIM, Ji Eun**; 570 Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR). **YANG, Byung Suk**; 570 Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR). **LEE, Sang Hun**; 570 Songpa-daero, Songpa-gu, Seoul, Seoul 05510 (KR).

(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.

(54) Title: COMPUTERIZED SYSTEMS AND METHODS FOR BUFFERED INVENTORY MANAGEMENT



(57) Abstract: Embodiments of the present disclosure include a computer-implemented system for managing inventory in a fulfillment center. The system may comprise a memory and at least one processor. The processor may be configured to execute the instructions to determine a quantity of an item available for picking, generate a supplement request for the item based on a comparison of the quantity of the item available with a predefined quantity of the item, and send data relating to the supplement request and a first indication requesting input of identification information, receive a first input to verify the identification information, send data relating to an item identifier, receive a second input representing the item identifier, send data relating to a second indication requesting recording of the item identifier, and store the first input, the second input and the recorded information in a database associated with the computer-implemented system.

[Continued on next page]

(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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*