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

(72) Inventors: **CUI, Xiaohua**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR). **LUO, Quan**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR). **XU, Zhijun**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR). **ZHAO, Rubin**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR).

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(54) Title: SYSTEMS AND METHODS FOR INITIAL ITEM GROUPING LOGIC

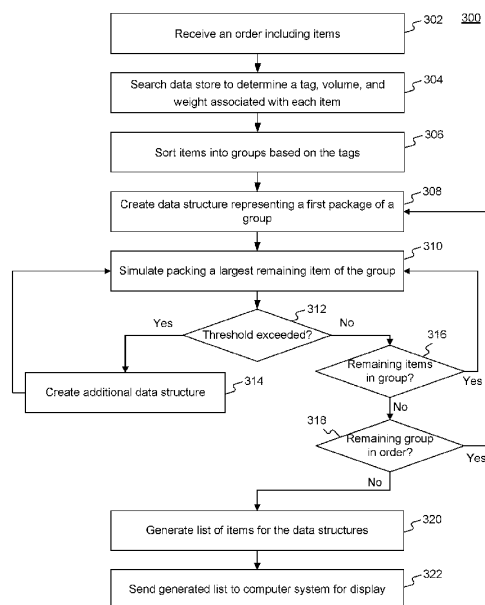


FIG. 3

(57) Abstract: The present disclosure provides systems and methods for automatic packaging determination comprising a memory storing instructions and at least one processor performing steps comprising: receiving an order comprising at least one item; searching a data store to determine a tag, volume, and weight associated with each item; sorting the items into groups based on the tags of the items; performing an optimization process for each group of items having the same tag by: creating a data structure representing a first package of the group; iteratively simulating packing a largest remaining item of the group into the first package, wherein if the simulating determines that a threshold is exceeded: creating an additional data structure representing an additional package, and iteratively simulating packing a largest remaining item until all items of the group are packed into a package; and generating at least one list of items for the data structures representing packages.

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