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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

(54) Title: SYSTEM AND METHOD FOR COMPUTER-IMPLEMENTED ARTIFICIAL INTELLIGENCE BATCH PICKING OPTIMIZATION AND COMMUNICATION

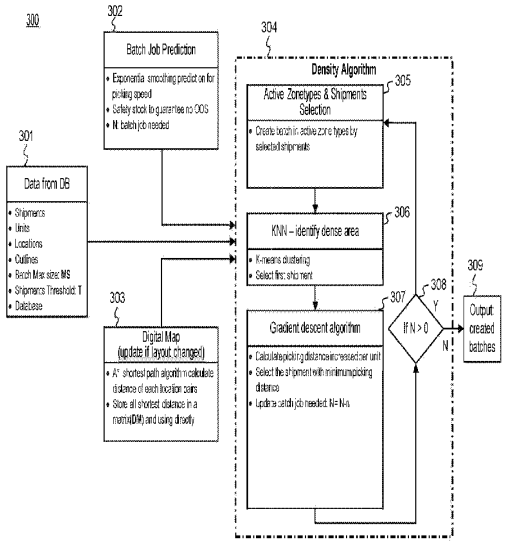


FIG. 3

(57) Abstract: The disclosed embodiments provide computer-implemented systems and methods for batch picking optimization. They system may include one or more memory devices storing instructions and one or more processors configured to execute the instructions to receive an order comprising one or more items for picking. Additionally, the system may calculate one or more high density areas in a fulfillment center by calculating distances between a first item in the one or more items and at least one other item in the one or more items using a search algorithm. Additionally, the system may calculate nearest neighboring items for the one or more items and generate a high density area by choosing a plurality of the nearest neighboring items.

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