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- (54) **Title:** A METHOD AND SYSTEM FOR NAVIGATING A ROBOT IN A DESIGNATED ENVIRONMENT

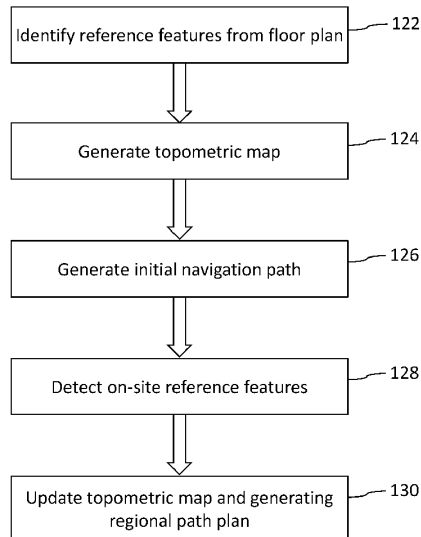


Fig. 3

(57) **Abstract:** A method and system for navigating a robot 100 in a designated environment are provided herein. In an embodiment, the method comprises: selectively identifying reference features from a scale plan of the designated environment; generating a topometric map 178 of the designated environment, the topometric map 178 being associated with the identified reference features; generating an initial navigation path 176 of a local region 174 from the topometric map 178; as the robot 100 navigates along the initial navigation path 176 of the local region 174, detecting on-site reference features of the local region 174 that correspond to the identified reference features of the scale plan; and updating the topometric map 178 based on the correspondence to generate a regional path plan 188 to guide the robot's direction in the local region 174.

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