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(54) Title: SENSOR SYSTEM FOR MOBILITY PLATFORM AND METHOD FOR SHAPE BASED LANDMARK RECOGNITION

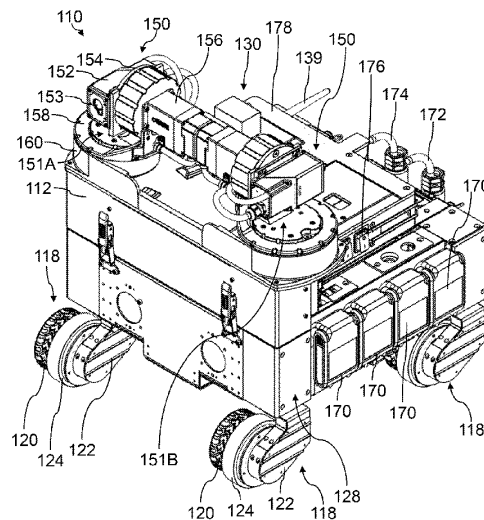


FIG. 5

(57) Abstract: A mobility platform is configured to execute one or more tasks in a worksite including a passive landmark. A mobility platform may include a first laser rangefinder and at least one processor configured to sweep the first passive landmark with the first laser rangefinder to collect a first plurality of distance measurements for a first plurality of yaw angles, fit a first shape to the first plurality of distance measurements based on a predetermined shape of the first passive landmark, and determine a position of a geometric center of the first passive landmark relative to the first location of the first laser rangefinder based on the fit first shape.

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WO 2024/249900 A2

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