

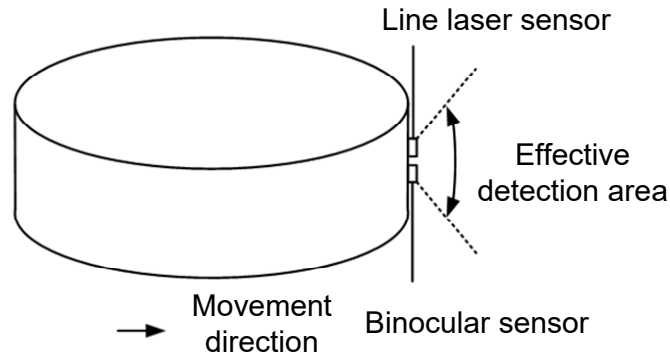


FIG. 1

In a movement process of a cleaning robot, collect three-dimensional information of a step-type obstacle in a front area by using a sensor system, where the three-dimensional information includes at least height information and depth information of the step-type obstacle

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At least when the height information and the depth information meet an obstacle crossing condition, perform an obstacle crossing action to cross the step-type obstacle, to clean the step-type obstacle

12

FIG. 2

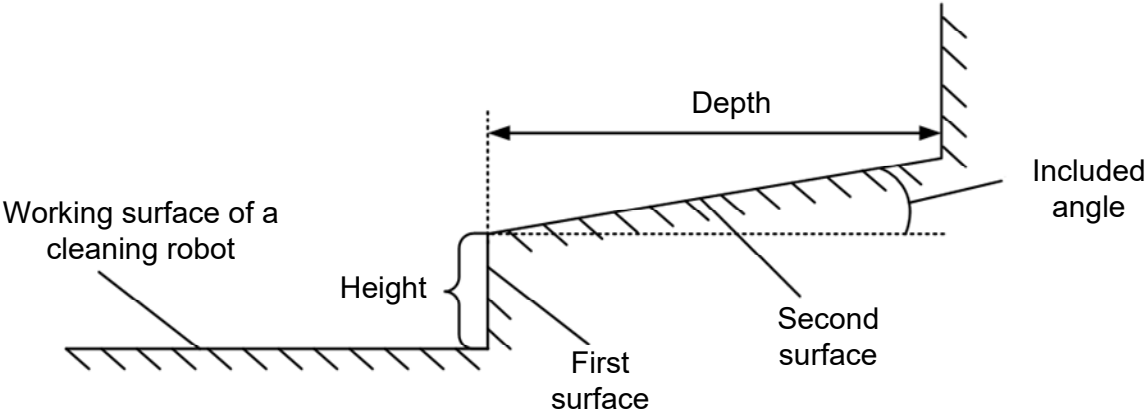


FIG. 3

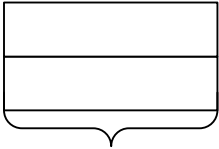


FIG. 4

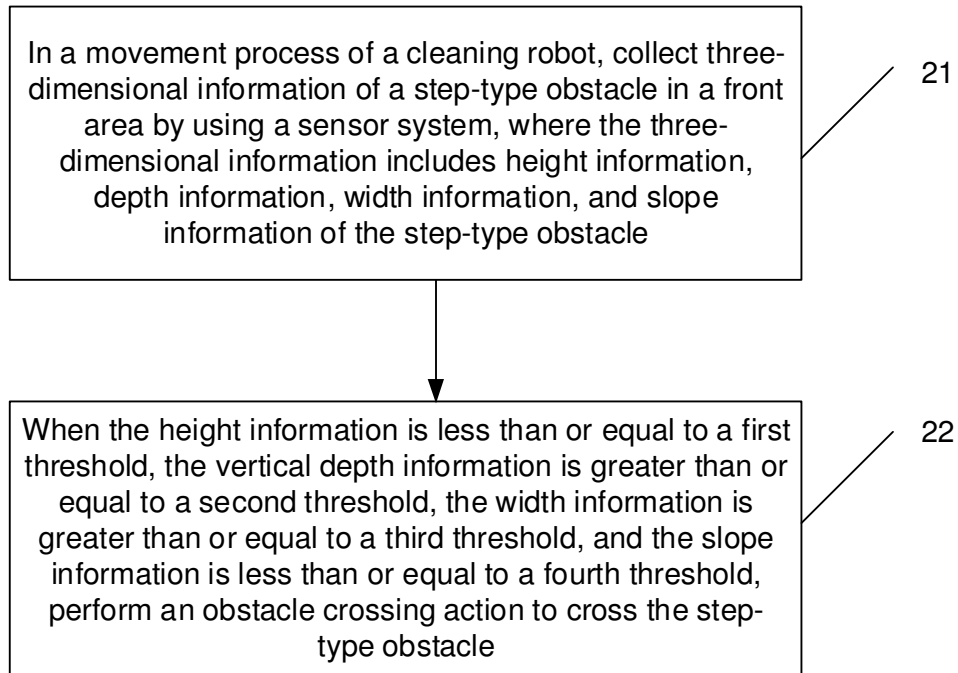


FIG. 5

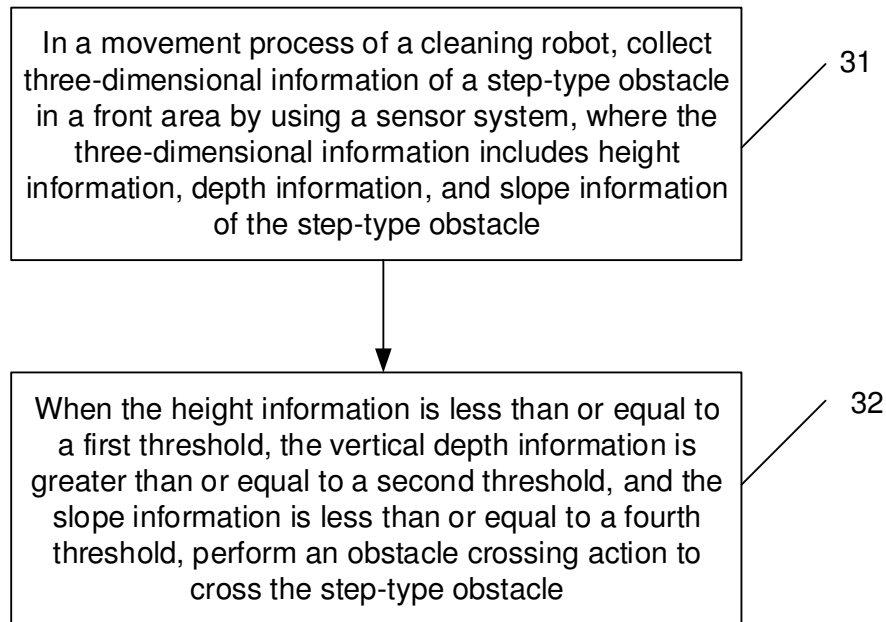


FIG. 6

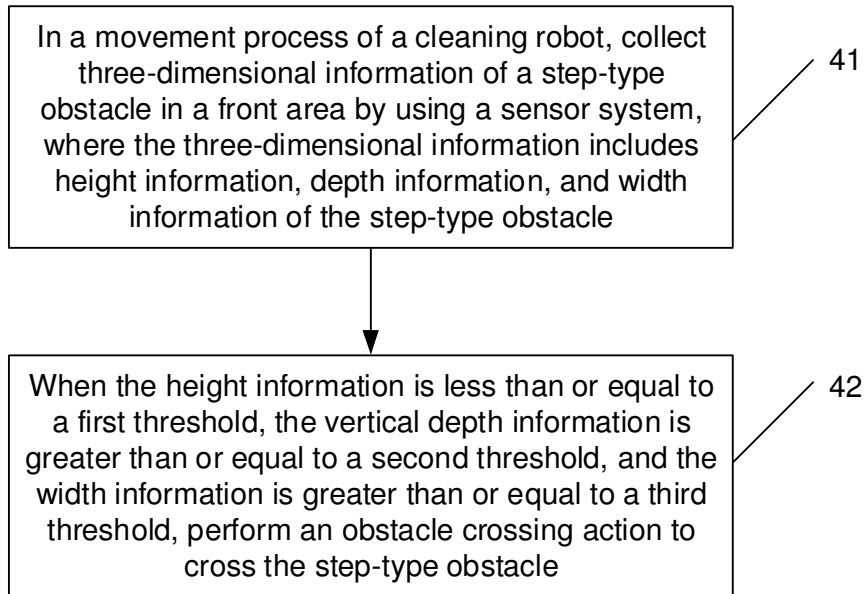


FIG. 7

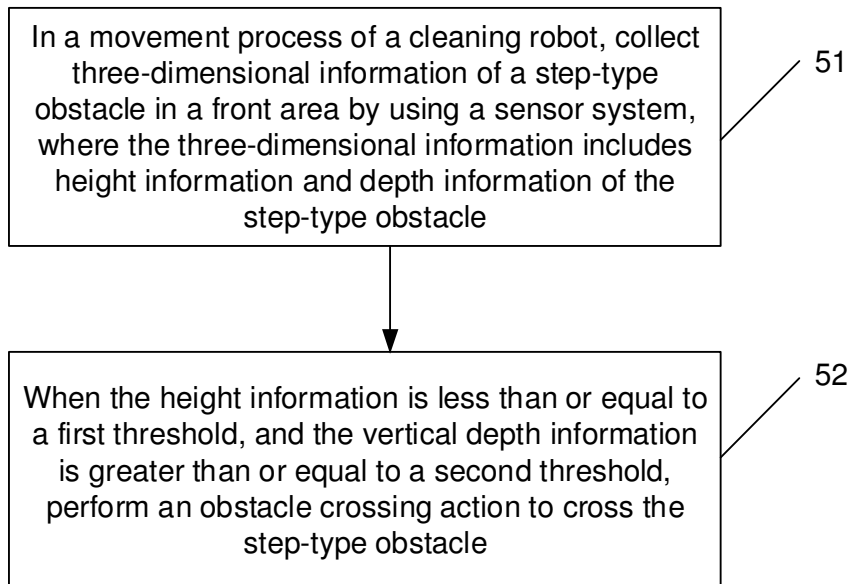


FIG. 8

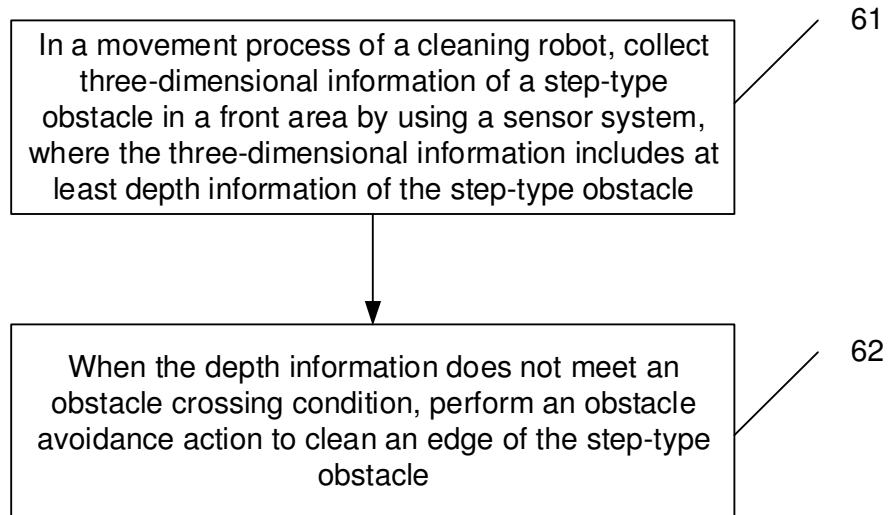


FIG. 9