

CLEANING ROBOT AND MOVEMENT CONTROL METHOD THEREOF

ABSTRACT

5 The present disclosure provides a cleaning robot and a movement control
method thereof. Based on the method, during travel of the cleaning robot, three-
dimensional information of an obstacle is acquired through a sensor system. When
the obstacle moves within the detection range of the sensor system, when a
distance between the obstacle and the cleaning robot along a central axis of the
10 cleaning robot is less than a first preset detection threshold, and when a maximum
value among included angles between connection lines constituted by a first
reference point of the cleaning robot and second reference points of the obstacle
and a current traveling direction of the cleaning robot is greater than a third preset
detection threshold, an action away from the obstacle is intelligently performed.
15 This allows the sensor system to effectively acquire the three-dimensional
information of the obstacle and achieve accurate identification of the obstacle.

The most illustrative drawings: Figure 3