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(54) **ROBOT FOR MANAGING STRUCTURE AND METHOD OF CONTROLLING THE ROBOT**

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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

Provided are a robot for managing a structure, and a method of controlling the robot. The robot for maintaining and repairing the structure measures a luminance value by capturing an image of the structure, or measures depth information of the structure by using a laser sensor or stereo vision, determines a protruding portion or depressed portion of the structure by using the measured luminance value or the measured depth information. Also, the robot removes the determined protruding portion and fills the determined depressed portion by using a combination hardener. Accordingly, protrusion, depression, and crack of a wall caused by deterioration or poor construction of the structure may be automatically found and repaired so as to efficiently manage the structure.

8 Claims, 3 Drawing Sheets

