INTELLIGENT DUCT CLEANING ROBOT

ABSTRACT

An remote-controlled intelligent air-con duct cleaning mobile robot which can greatly improve cleaning efficiency, shorten cleaning time, and release an operator from tedious cleaning work, comprising: a main chassis with rotatable tracks or wheels on either side thereof that supports a central body of the vehicle; a deployable manipulator consists of multiple links; a rotary brush attached to the end of the last link of the manipulator; range sensors mounted on the robot base for measuring dimension of a duct cross section; a microprocessor that is used to generate manipulator cleaning path automatically; video camera and lights for duct monitoring and inspection; a remote-controlled console outside of the duct.

FIG. 1