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(57) Abstract :

A portable computer maintenance device, comprising of a hollow body 101 installed with a motorized lid 102 configured to accommodate and enclose a portable computer, a user-interaction interface allows a user to provide commands for cleaning of the computer, an analyzing module identifies the type of computer by analyzing visual characteristics and associated metadata, an array of optical sensors continuously monitors dust levels on the computer's screen, keyboard, and ventilation areas, a cleaning assembly to perform cleaning operation over the computer based on dust detection results, a cleaning liquid storage unit 118 coupled with a conduit pipeline 119 and connected to multiple precision nozzles 120 for controlled spraying of cleaning liquid onto specified computer areas.

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