

Biotechnology and Healthcare

Title

Surgical smoke removal device

Abstract

Surgical lamps tend to block the HEPA airflow above them, making it difficult for the surgical smoke below the surgical lights to diffuse, thus making it easily expose for medical staff to inhale. This invention is an air purifier that can be installed on the operating lamp. The air purifier has a tracking device, which can directly send clean air to the source of pollution and dilute its concentration, which can effectively reduce the exposure of medical staff in the operating room from the concentrated surgical smoke. In addition, the air purifier can also send clean air directly to the breathing area of medical staff to protect their health.

Benefits

Surgical lamps in the operating room block the HEPA airflow, thereby increasing the exposure of medical staff to high concentrations of surgical fumes. At present, the operating room often uses an air extraction device to remove surgical smoke, but the air extraction device needs to be installed on or next to the electric cautery, which may hinder the doctor's flexibility in operating the surgical electric cautery. In addition, most of the suction devices will be accompanied by noise. This invention installs the air purifier directly on the operating lamp to reduce the exposure concentration of medical staff to the operating smoke. The present invention can achieve the effect of removing the operation smoke without using the traditional operation suction device, and the doctor can have more operating space when performing the operation. This invention can reduce the noise problem generated by using the suction device.

Industry Categories

The medical industry, air purifier, cooking utensils manufacturing

Keywords

Surgical lamps, Airflow

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