Patent Search

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Abstract:

The present invention describes a horizontal laminar airflow add-on device. In the present invention, the device is an add-on to the traditional horizontal laminar airflow devices enabling the user to enhance, the biosafety level to level 2, our device recirculates the clean air as well as the contaminated air in a fashion to prevent accidental exposure of the user with contaminate air.

Complete Specification

DESC:FIELD OF INVENTION:
This invention generally relates to the field of the horizontal laminar airflow add-on device, method and more particularly relates to horizontal laminar airflow add-on to increase the biosafety level of the laminar airflow.
BACKGROUND OF THE INVENTION
Laminar airflow is in equipment generally used in microbiology labs it consists of a chamber with an air blower attached to the rear side which allows circulation of the air through an infiltration medium enabling the user to experiment in a sterile environment.
The main purpose of the laminar airflow is to provide a contamination-free environment to work with. The contamination-free environment is generally provided with the help of filtration using a HEPA filter which can remove airborne impurities up to 0.3 micrometers in size. the traditional horizontal laminar airflow has certain limitations because, in the case of pathogenic microbes, the user can get accidentally exposed to airborne particulate microorganisms, thus, limiting the usability of traditional horizontal laminar airflow devices to biosafety level 1.
There are few references made to the present invention as given below:
US4864459A discloses a frame is placed in the flow of incident air from a laminar flow hood, and bare wires and insulated wires are stretched over the frame. A source including a transformer produces an alternating voltage. One of the outputs thereof is directly connected to the insulating wires and the other output thereof is connected to the bare wires via a capacitor. An electrode placed inside the volume of the cabinet fed with air from the hood is connected to a DC amplifier which applies a correcting voltage to the insulated wires. This apparatus turns out to be highly effective, in particular, for removing dust and neutralizing charge when manufacturing VLSI circuits

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