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Patent Search

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Abstract:

In this project we have designed a automatic UV-C disinfection light which kills germs in the environment by decomposing their DNA structures, thus preventing and spread of viruses, bacteria and other harmful microorganisms This is controlled from anywhere in the world if it is connected with internet and it is functioned when operated by the user through the blynk and then the device is activated and starts monitoring the room whether the presence of human beings. If not, then the UV-C light starts to decomposing the DNA structures of germs. This project emits the UV-C radiation of wavelength (240-260) nanometer (nm) for the adjustable time duration. The location of the light placed to disinfect the area. UV-C disinfection automatic light works to kill microorganisms, such as fungi, viruses and bacteria, through a specific wavelength. The power of UV-C in our project as its ability to destroy the DNA particles within these microorganisms, rendering them entirely harmless. The concept is new for many medical, lab and hospital settings, where high-end UV-C technology is already used in concentrated form for sanitizing tools and materials. Our technology disinfection automatic light aims to bring UV-C disinfection to more extensive areas than small, contained spaces, providing higher levels of protection for all.

Complete Specification

Description: PREAMBLE TO THE DESCRIPTION

The following specification describes the invention

FIELD OF INVENTION

The Present Invention relates to the Field of Room disinfection automation

OBJECTIVES OF THE INVENTION ARE

- To maintain a clean and safe disinfected environment.
- To designed for the periodic conditioning of culture rooms and it can be applied in the larger areas like school, Universities and offices.
- To represents an open source, secure, fast and automatized equipment for room disinfection

BACKGROUND OF INVENTION

The most crucial benefit of UVC disinfection is that it is non-toxic when likened to other customary cleaning procedure that have a high concentration of severe chemicals that are sometimes used in cleaning and sanitization. The usage of UVC poses no threat to the environment, and its disinfection is a physical process and not a chemical one. It is very safe to enter a room after UVC is at work, but it might be hard to breathe in a room that just encountered the spraying of chemicals. UVC puts a stop to the array of harmful organisms. It kills molds and spores which other traditional cleanings may not or may even leave a damp environment where fungi can thrive. UVC i

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