WEARABLE DEVICES THAT ACTIVELY DISINFECT

Cross References

[0001] This application claims priority from U.S. Provisional Patent Application Serial No. 63/047,278, entitled "Methods and Apparatuses for Wearable Device that Actively Disinfect Bacteria and Viruses", filed on July 2, 2020, which is hereby incorporated by reference as if set forth in full in this application for all purposes.

[0002] Each publication, patent, and/or patent application mentioned in this specification is herein incorporated by reference in its entirety to the same extent as if each individual publication and/or patent application was specifically and individually indicated to be incorporated by reference.

Background

Technical Field

[0003] The disclosed embodiments relate generally to tools and methods used in disinfecting contagious environments.

Context

[0004] Unless otherwise indicated herein, elements described in this section are not prior art to the claims and are not admitted being prior art by inclusion in this section.

[0005] Frontline workers in contagious environments face daily risks for their own health, and their need for reliable and safe personal protective equipment (PPE) is high. Many pathogens spread through the air, making disinfection of air to breathe a high priority. Ultraviolet light, especially UVC light, is known for its disinfecting capabilities, but has been lacking in PPE. Some have tried, but come up short in providing an easy to use system that provides safe breathable air.

Summary

[0006] Embodiments of the invention provide a wearable device that sterilizes air and provides safety to frontline workers. The wearable device takes potentially contaminated air from the environment, sterilizes it with UVC light, and transports the sterilized air to a headgear. In the headgear