

***Mobile Purification Device Having Heated Filter for Killing Biological Species,
Including COVID-19***

ABSTRACT

An apparatus is used with supplied power for treating air in an environment. A housing is mobile in the environment and has an intake and an exhaust. At least one prime mover disposed in the housing between the intake and the exhaust is operable to move the air in the environment through the housing from the intake to the exhaust. At least one ultraviolet light source disposed in the housing is connected in electrical communication with the supplied power and is configured to generate ultraviolet radiation in at least one a portion of the housing through which the moved air passes from the intake to the exhaust. At least one permeable barrier disposed in the housing is configured to impede the moved air flow therethrough up to an impedance threshold. The at least one permeable barrier is connected in electrical communication to the supplied power and being heated to a surface temperature.

Figure 1