

Title (en)

PURIFICATION DEVICE HAVING HEATED FILTER FOR KILLING BIOLOGICAL SPECIES, INCLUDING COVID-19

Title (de)

REINIGUNGSVORRICHTUNG MIT EINEM BEHEIZTEN FILTER ZUM ABTÖTEN BIOLOGISCHER SPEZIES, EINSCHLIESSLICH COVID-19

Title (fr)

DISPOSITIF DE PURIFICATION DOTÉ D'UN FILTRE CHAUFFÉ POUR TUER DES ESPÈCES BIOLOGIQUES, Y COMPRIS LA COVID-19

Publication

EP 4143487 A1 20230308 (EN)

Application

EP 20933580 A 20200601

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Abstract (en)

[origin: CN112325423A] The present invention provides a purification device with a heating filter for killing biological species including COVID-19. The device utilizes the supplied power to treat an air flow of an air treatment system of the facility. The frame has a plenum with an inlet and an outlet. The frame is configured to be positioned in an air flow of the air handling system to pass the air flow therethrough. A filter is disposed in the plenum and configured to filter the air flow therethrough up to a filter threshold. An ultraviolet light source disposed in the plenum is connected in electrical communication with the supplied power and is configured to generate ultraviolet radiation in the plenum. A permeable metal barrier disposed in the plenum is configured to obstruct air flow therethrough until an obstruction threshold. The barrier is connected in electrical communication to the supplied power and is heated to a surface temperature.

IPC 8 full level

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