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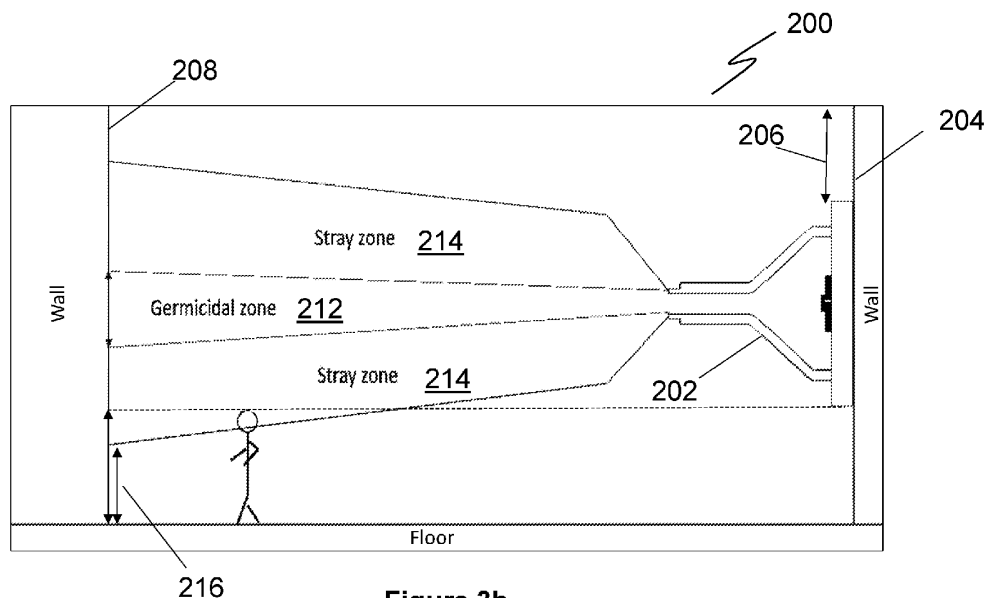
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(54) **Title: DEVICE, SYSTEM AND METHOD FOR PROVIDING DISINFECTION**



**Figure 3b**

(57) **Abstract:** This invention relates to a device for disinfection of an area, the device comprises a collimator comprising a cone portion and an elongate portion, the cone portion shaped and dimensioned to receive an light emitting diode (LED) array and mountable onto a surface via a mounting assembly; and the elongate portion operable to reflect, diffract, or deflect light rays emitting from the LED array to form a narrowed light beam; and an opening for emitting the narrowed light beam; wherein the LED array comprises at least one ultraviolet-C (UV-C) LED, and wherein the elongate portion comprises an internal surface coated with light reflective material. A method of using a system comprising the device for providing disinfection to an enclosed area having walls and a ceiling is also provided, wherein the collimator is mounted on a first wall surface or from a ceiling and a plurality of UV-C radiation sensors are mounted on a second wall surface for detecting the UV-C radiation emitted from the collimator.

[Continued on next page]

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