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(54) Title: VIRUCIDAL EFFECTS OF 405 NM VISIBLE LIGHT ON SARS-COV2 AND INFLUENZA A VIRUS

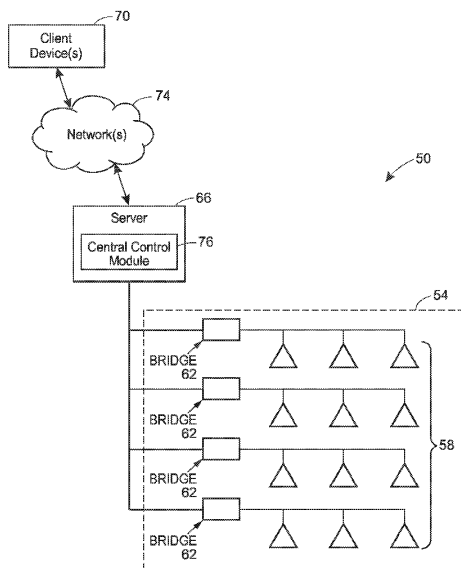


FIG. 6

(57) Abstract: A lighting device (58) and methods thereof to inactivate viruses in an environment. Particularly, systems and methods demonstrate the virucidal effects of 405 nm irradiation to inactivate viruses including SARS-CoV-2 and influenza A H1N1 virus, specifically in the absence of exogenous photosensitizers, despite previous efforts in the field suggesting the need for one or more photosensitizers to achieve successful inactivating effect. Moreover, systems and methods implement the 405 nm in the context of lighting devices (58) that may disinfect an environment while providing a combined light output that is unobjectionable to humans.

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