

Title (en)
SYSTEMS AND METHODS FOR ELECTROMAGNETIC VIRUS INACTIVATION

Title (de)
SYSTEME UND VERFAHREN ZUR INAKTIVIERUNG ELEKTROMAGNETISCHER VIREN

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR UNE INACTIVATION ÉLECTROMAGNÉTIQUE DE VIRUS

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Application
EP 21784799 A 20210408

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Abstract (en)
[origin: WO2021207527A1] A system and method to reduce the number of active targeted viruses, bacteria or other microbes or microorganisms within an indoor or outdoor space using an array of radio frequency antennas, lasers or acoustic emitters is presented. The system sweeps through a series of beam patterns. The radio, laser or acoustic frequency and dwell time depend on the targeted viruses and bacteria. By sweeping through a wide range of transmit beamforming vectors, it is possible to kill or render harmless microbes or microorganisms at many locations throughout the coverage area while avoiding exposing humans to harmful levels of radio frequency or laser power. The proposed system and method can be flexibly applied to many array geometries including those with large spacing and non-isotropic antennas or acoustic emitters, as well to a variety of type of lasers.

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