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(54) **DEVICE FOR SUPPRESSING VITAL ACTIVITY OF PATHOGENIC MICROORGANISMS AND VIRUSES BY ELECTROMAGNETIC RADIATION**

(57) Abstract:

FIELD: medicine; veterinary medicine; agriculture.

SYBSTANCE: The invention relates to medicine, veterinary medicine, and agriculture and can be used for the therapeutic effect of gigahertz and terahertz radiation in respect to biological objects, in particular, in the treatment of inflammatory and viral diseases, post-surgery complications in humans and animals, as well as for disinfection of objects, premises and disinfection of crops. The device for suppressing the vital activity of pathogenic microorganisms, viruses by electromagnetic radiation includes a voltage source, a radio frequency emitter with a second-order reflection surface, a block providing an interruption frequency of a high-voltage electromagnetic pulse field of 100-150 Hz, a high-voltage pulse generator and a crystal with nonlinear properties. The voltage source is connected to the unit providing the frequency of interruption of the high-voltage electromagnetic pulse field, to the pulse generator, to the high-voltage pulse generator, which is connected to the emitter. The unit providing the frequency of interruption of the high-voltage electromagnetic pulse field is connected to a pulse generator, which is connected to a high-voltage pulse generator.

EFFECT: The invention makes it possible to increase the efficiency of the process of suppressing the vital activity of pathogenic microorganisms, which is achieved by the ability to immediate reconfiguring the device to inactivate certain pathogenic microorganisms, as well as to provide therapeutic effects simultaneously with respect to biological objects (persons, animals, plants) located in the same compartments/open space.

1 cl, 1 dwg