

Invention relates to medical technology, specifically to devices for inactivating microorganisms in the air, and can be used for air disinfection in the medical, pharmaceutical, food, and agricultural industries, in crowded indoor spaces, as well as in domestic settings. Air sterilizer comprises a sterilization chamber with a shielding electrode, two corona discharge electrodes, two glow discharge electrodes, and an ionizing electrode, as well as a fan and power supplies. The shielding electrode, the first corona discharge electrode, and the glow discharge electrodes are designed in the form of a grid. The second corona discharge electrode and the ionizing electrode have the shape of a tapered cylinder with a taper angle of no more than 20° . The electrodes are connected to a high-voltage power supply via resistors in a specific configuration. Technical result is an increase in the inactivation factor due to the formation of a gas discharge close to a glow discharge in air at atmospheric pressure and a voltage of no more than 26 kV, which prevents breakdowns and damage to the device.