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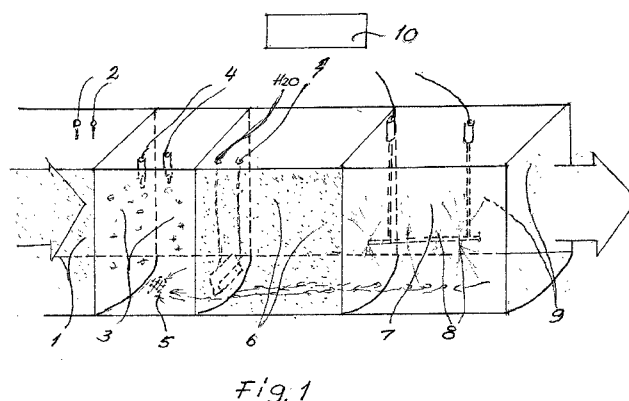
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(54) Title: DEVICE AND METHOD FOR PURIFYING AIR FROM NON-DESIRED COMPONENTS AND FOR ELIMINATING SUCH COMPONENTS



(57) Abstract: This invention concerns a device for purifying air from non-desired gases and particles, in the case of nuclear power plants from radiating particles and gaseous iodine, as well as for extermination of microorganisms and removal from the air. The device consists of a purifying chamber through which the air to be purified is arranged to flow. In the structurally grounded purifying chamber ionized air (1) is led to a water dust or vapor which can be oxidized for instance by means of hydrogen peroxide (6) and by increasing the voltage level of the ionization in order to produce ozone and to be led further to high voltage operated ion blast tips (8) producing a continuous ion jet, which is directed onto collecting surfaces (9) and taking with it both droplets and particulate materials as well as gaseous components connected to them. The volume of the air to be purified determines the shape and volume of the purifying device. In use also energy saving is very significant compared to fiber filtration.