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The invention relates to the installations for water purification by photocatalytic decomposition of the organic compounds and pathogenic microflora by ultra-violet rays and may be applied for selective purification of the surface and sewage waters from dissolved toxic organic substances.

The installation, according to the invention, includes a body with cover, branch pipes for inlet of the water and of the bubbled air, a branchpipe for outlet of the purified water, the body being provided with ultra-violet lamps, installed in quartz bags, with a magnetohydrodynamic chamber with charge of ferromagnetic spherical particles and solenoid, above the ferromagnetic charge there is installed on springs a net, onto which it is placed the mixture of iron and coal and/or copper, in the upper part of the body it is installed a filter filled up with floating charge of foamed polystyrene, provided with a siphon, installed onto the branch pipe for outlet of the purified water with the possibility of periodic regeneration of the filter, and the quartz bags are provided with a cleaning mechanism with brushes, fixed to the body cover.

The result of the invention consists in increasing the effectiveness of the processes for water purification and disinfection and in increasing the productivity of the installation.

Claims: 1

Fig.: 1