

A tray-type purifier of waste waters contains tray, boosters for waste waters supply, photoreactor-mother plantation, connected with the purifier through outlet devices-compactors. In the tray-type purifier clear and dark zones are given. The clear zone contains rotary cylinder of slit beamguides, protective translucent cap and ventilation. In the dark zone settled zone and algae outlet zone through outlet device-compactor, sludge collector and sludge outlet device and activated sludge supply circuit from methane tank to the filter-blanket, fixed before waste waters outlet from the purifier are placed. The process for algal waste waters purification in tray-type purifier comprises a waste waters supply to the purification, their aeration in the purification process, algae clarifying. Waste waters at first are supplied to the clear zone of tray-type purifier. In this zone a waste waters are mixed with suspension of Botryococcus surface algae, an air is supplied to the aeration zone and the waste waters aeration and clarification are carried out with the help of cylinder rotation with slit beamguides. After that the algae are taken out in a form of paste to the photoreactor-mother plantation with regulatory medium, from which the fresh active algae biomass is returned to the purifier. After a clear zone the waste waters are directed to the dark zone, where before the outlet from the purifier are passed through the filter-blanket from activated sludge. The use of the group of inventions will allow increasing of waste waters purification efficiency.