

Title (en)

METHOD OF CONVERTING A SEPTIC TANK INTO A BIOLOGICAL WASTE WATER TREATMENT PLANT.

Title (de)

VERFAHREN ZUR UMWANDLUNG EINER FAULKAMMER IN EINE BIOLOGISCHE KLÄRANLAGE

Title (fr)

PROCEDE POUR LA CONVERSION D'UNE FOSSE SEPTIQUE EN UNE STATION D'EPURATION BIOLOGIQUE D'EAU USEE

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Application

EP 08736282 A 20080416

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Abstract (en)

[origin: EP1982962A1] The method of converting a septic tank (1) into a biological wastewater treatment plant associating an anaerobic purification in the tank and an aerobic purification, comprises setting an activated sludge aerobic purification module in the tank, introducing air through an aerator (9, 11) of the module into a sedimentation compartment (3) of the tank, transferring water from the sedimentation compartment to a bottom of a clarification chamber (12) of the module, and extracting clear water from the clarification chamber. The septic tank includes an aerobic digestion compartment (2). The method of converting a septic tank (1) into a biological wastewater treatment plant associating an anaerobic purification in septic tank and an aerobic purification, comprises setting an activated sludge aerobic purification module in the septic tank, introducing air through an aerator (9, 11) of the module into a sedimentation compartment (3) of the septic tank, transferring water from the sedimentation compartment to a bottom of a clarification chamber (12) of the module, and extracting clear water from the clarification chamber. The septic tank includes an aerobic digestion compartment (2). The clear water is extracted through a pipe (14), of which an upstream end opens in the clarification chamber and a downstream end traverses an over-flow of the septic tank. The over-flow is sealed around the pipe. The water of sedimentation compartment is transferred through an inlet pipe having an upstream end. The inlet pipe is placed in the upper part of the sedimentation compartment to locate the level of the upstream end, but beneath the maximum level reached by water in the septic tank. The level of upstream end corresponds to a lower level reached by the water in the septic tank for normal use of the wastewater treatment plant. A baffle is disposed in the clarification chamber for holding back light sludge. The heavy sludge drawn off in the bottom of the clarification chamber is discharged into the sedimentation compartment. The clarification chamber is disposed in the anaerobic digestion compartment. Independent claims are included for: (1) a module for converting the septic tank into a biological wastewater treatment plant; and (2) a station for biological wastewater treatment associating an anaerobic purification in septic tank and an aerobic purification.

IPC 8 full level

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