

Title (en)

BIOREACTOR WITH SEPARATE OXYGENATION AND TRICKLING FILTER AREAS, AND TREATMENT METHOD

Title (de)

BIOREAKTOR MIT SEPARATEN SAUERSTOFFANREICHERUNGS- UND TROPFKÖRPERBEREICHEN SOWIE BEHANDLUNGSVERFAHREN

Title (fr)

BIOREACTEUR A OXYGENATION ET LITS BACTERIENS SEPRES ET PROCEDE DE TRAITEMENT

Publication

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Application

EP 11727206 A 20110517

Priority

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Abstract (en)

[origin: WO2011161329A1] The invention relates to a system (1) for the biological treatment of liquid effluents, comprising a first "oxygenation" tank (2) and at least two other "trickling filter" tanks (3, 4) including a microorganism retaining packing (3a, 4a), in which tank 2 is connected to tanks 3 and 4 by means of a pipe (20) divided into a pipe (20a) for supplying tank 3 and a pipe (20b) for supplying tank 4. The system (1) also comprises: a pipe (25a) for discharging effluent from tank 3 and a pipe (25b) for discharging effluent from tank 4, which pipes (25a, 25b) are connected to a common discharge pipe (21) having an effluent circulation pump (17) disposed thereon; a pipe (22) for recirculating the treated effluent leaving tanks 3 and 4 in the direction of tank 2, said pipe (22) including a valve (15); and a pipe (23) for releasing the effluent from the system (1) to the exterior, said pipe (23) including a valve (16). The tanks (3, 4) each comprise a level sensor (3c, 4c) and are interconnected by means of a pipe (18) located in the lower part thereof. In addition, pipe 20a comprises a valve (5), pipe 20b comprises a valve (7), pipe 25a comprises a valve (9) and pipe 25b comprises a valve (10), and the opening of said valves (5, 7, 9, 10) is controlled by control means, such as to define an effluent circulation path in which the effluent first passes through tank 3, on through pipe 18 and into tank 4, or the effluent first passes through tank 4, on through pipe 18 and into tank 3.

IPC 8 full level

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