

Title (en)

METHOD AND PLANT FOR BIOLOGICAL TREATMENT OF AQUEOUS EFFLUENTS FOR PURIFICATION THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BIOLOGISCHEN ABWASSERBEHANDLUNG

Title (fr)

PROCEDE ET DISPOSITIF DE TRAITEMENT BIOLOGIQUE D EFFLUENTS A QUEUX, EN VUE DE LEUR EPURATION

Publication

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Application

**EP 03734740 A 20030128**

Priority

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Abstract (en)

[origin: FR2835250A1] The invention relates to a method for the biological treatment of effluents contaminated with impurities of urban or industrial origin, characterised in employing a single aeration tank (1) with a high mass charge in which the raw effluent or mechanically pre-treated effluent is mixed without previous decantation with a free microbial culture of the activated sludge type, growing in a lightly aerated medium, of the order of 0.1 to 0.2 kg O<sub>2</sub>/kg BOD<sub>5</sub> removed, the organic charge applied having a value equal to or greater than at least 2 kg COD/kgSM/day, preferably equal to or greater than 4 kg COD/kgSM/day, the hydraulic residence time for the raw effluent in the single aeration tank being between 30 and 90 minutes, preferably between 40 and 60 minutes.<sp></sp>

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