

Title (en)
REACTOR AND METHOD FOR ANAEROBIC WASTEWATER TREATMENT

Title (de)
REAKTOR UND VERFAHREN ZUR ANAEROBEN ABWASSERBEHANDLUNG

Title (fr)
REACTEUR ET PROCEDE POUR LE TRAITEMENT ANAEROBIE DES EAUX USEES

Publication
EP 1678089 A1 20060712 (DE)

Application
EP 04791056 A 20041029

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Abstract (en)
[origin: WO2005042418A1] The invention relates to a reactor (10), for anaerobic wastewater treatment, embodied as a loop reactor with a central flow channel (20). Support elements (50), for the immobilisation of micro-organisms, are placed in the annular area (40) between the central flow channel (20) and the reactor wall, flow paths being formed between adjacent support elements (50). The lower section of the reactor (30), located under the support elements, is embodied as a chamber, provided for receiving wastewater with the micro-organisms floating therein, on operation of said reactor (10). On operation, floating micro-organisms as well as micro-organisms, immobilised on the support elements, are provided. The wastewater to be treated flows downwards in the centre and returns upwards along the support elements (40), the current being partially generated by gas evolution from the micro-organisms. A method for anaerobic wastewater treatment is carried out by means of said reactor which is suitable for wastewater treatment in the food and feedstuffs industry and in the paper and textile industry.

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Citation (search report)
See references of WO 2005042418A1

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