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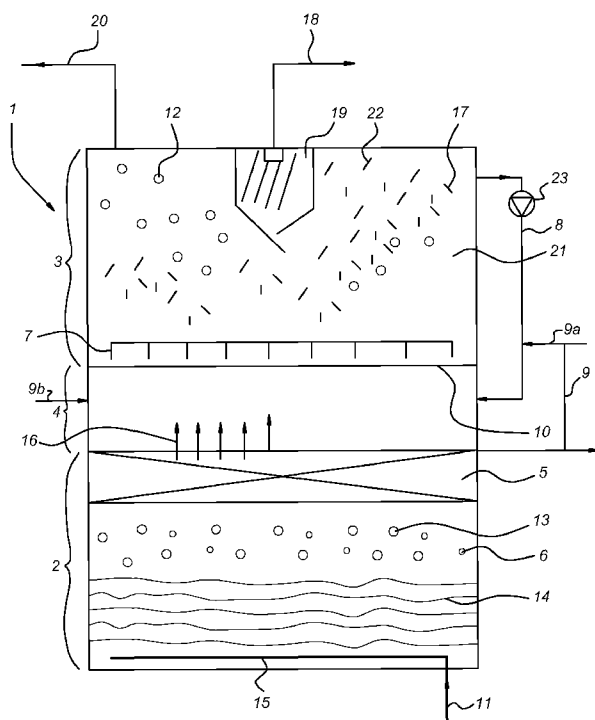
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(54) Title: DEVICE AND METHOD FOR TREATMENT OF WASTE WATER



(57) Abstract: The invention relates to a device and method in which nitrate is removed by partially feeding aerobic effluent and aerobic biomass originating from the aerobic treatment to the anaerobic effluent from the anaerobic treatment, subjecting this aerobic effluent, that aerobic biomass and that anaerobic effluent to an anoxic treatment, and feeding the anoxic effluent from the anoxic treatment to the aerobic treatment. The device comprises an anaerobic reactor (2), an aerobic reactor (3) and an anoxic intermediate compartment (4) located between them, which can all be accommodated in a single vertical column. The anoxic intermediate compartment (4) is connected on one side to that part of the anaerobic reactor which is located above the gas collectors, and is connected on the other side to the aerobic reactor. Between the aerobic reactor and the anoxic compartment there is a return system (8) for feeding part of the aerobic effluent and aerobic biomass from the aerobic reactor (3) back to the anoxic intermediate compartment.



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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