

Title (en)

DEVICE FOR PURIFYING AND TREATING WASTE WATER IN ORDER TO OBTAIN DRINKING WATER

Title (de)

VORRICHTUNG ZUM REINIGEN VON ABWASSER UND AUFBEREITEN DESSELBEN ZU TRINKWASSER

Title (fr)

DISPOSITIF D'EPURATION D'EAUX USEES ET DE POTABILISATION DE CELLES-CI

Publication

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Application

EP 01978239 A 20010622

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Abstract (en)

[origin: DE10030984A1] The invention relates to a method for purifying and treating waste water in order to obtain drinking water, and a device for carrying out the method. Waste water is treated in a first step in a microbiological aerobic manner. Non-biodegradable foreign bodies or particles are then separated from the waste water. This is followed by biological post-purification, and biologically and chemically non-degradable substances are then removed from the treated waste water by means of post-filtration. The following step involves guiding the waste water through a static sand filter, and can involve a dynamic sand filter, an activated carbon filter, and ultrafiltration as further options. The inventive device comprises a microbiologically aerobic waste purification system, a system for separating off non-biodegradable foreign bodies and for removing residual degradable substances, and a post-filtration system.

[origin: DE10030984A1] Purification of waste water (I) to produce drinking water comprises: (a) aerobic microbiological treatment of (I); (b) removing material which has not been biologically degraded, followed by biological post-treatment; and (c) filtering to remove material which cannot be chemically or biologically degraded. An independent claim is also included for the apparatus used to carry out the process.

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C02F 9/14

IPC 8 full level

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Citation (search report)

See references of WO 0206168A1

Citation (examination)

- DE 3048479 A1 19820715 - SCHULENBURG FRIEDRICH
- US 5458788 A 19951017 - TANG NIANFA [US]

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