

Title (en)

Installation for handling radioactively charged waste water

Title (de)

Vorrichtung für die Handhabung radioaktiv dotierter Abwässer

Title (fr)

Installation pour la gestion d'eaux résiduelles contenant des produits radioactifs

Publication

EP 1089296 A1 20010404 (DE)

Application

EP 00116503 A 20000731

Priority

DE 19946392 A 19990928

Abstract (en)

Apparatus for treating waste water containing radionuclides resulting from medical therapy or diagnosis comprises a buffer tank into which the water is fed. This can be emptied in batches via a metering tank with an integral probe, which measures the amount of radioactivity and/or nuclides it contains, into a storage tank. Apparatus for treating waste water containing radionuclides resulting from medical therapy or diagnosis comprises a buffer tank (1) into which the water is fed. This can be emptied in batches via a metering tank (19) with an integral probe (20), which measures the amount of radioactivity and/or nuclides it contains, into a storage tank (32). A computer (31) uses the data from the probe to control the volume of water in the storage tank and its total activity, so that the tank can be emptied after a precalculated decay time. In one embodiment of the invention several storage tanks are used, arranged in parallel. Each of these is used for a different level of radioactivity and/or different nuclides. The buffer tank forms part of a vacuum system.

Abstract (de)

Bei derartigen Abklinganlagen ist vorgesehen, daß das Abwasser einem Puffertank zuführbar ist, der unter Zwischenschaltung eines Meßtanks mit einer Meßsonde zur Radioaktivitäts- und/oder Nuklidbestimmung in einem Sammel-tank entleerbar ist. Die ermittelten Meßdaten werden einer zugeordneten Steuer- und Recheneinheit zur Volumen- und Aktivitätsbilanzierung des beschickten Sammel-tanks zugeführt. In dieser Steuer- und Recheneinheit wird ein Abgleich zu einer eingestellten Radioaktivität nach einer Abklingzeit vorgenommen und der Sammel-tank dann entleert.
<IMAGE>

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G21F 9/22

IPC 8 full level

A61M 36/04 (2006.01); **G21F 9/22** (2006.01)

CPC (source: EP)

G21F 9/22 (2013.01)

Citation (search report)

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- [A] DE 2551390 A1 19770526 - RAUTENBACH ROBERT
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 358 (P - 522) 2 December 1986 (1986-12-02)

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