

Title (en)

Separation and confinement vessel for radio-active products contained in liquid effluents and device and process for treating those effluents.

Title (de)

Trennungs- und Verschlussraum für in flüssigen Abfällen enthaltender radioaktiver Substanzen, sowie Vorrichtung und Verfahren für deren Behandlung.

Title (fr)

Enceinte de séparation et de confinement de produits radioactifs contenus dans des effluents liquides et installation et procédé pour le traitement de ces effluents.

Publication

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Application

EP 93400989 A 19930415

Priority

FR 9204864 A 19920421

Abstract (en)

This vessel (18) contains a cathode (28) and an anode (30) which are secured inside the vessel. The vessel (18) is connected to a plant (10) making it possible to feed the vessel (18) with liquid effluents and to remove the liquid effluents from the vessel (18). The liquid effluents undergo electrolysis in the vessel (18). During the electrolysis the radioactive metal cations present in the effluents are deposited on the cathode (28). When the radiation dose rate emitted outside the vessel exceeds a predetermined threshold the vessel (18) is drained and is stored, the electrodes (28, 30) being left inside the latter. The organic molecules present in the effluents are destroyed after the electrolysis of the effluents by ozonization or incineration. <IMAGE>

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G21F 9/06

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] FR 2642746 A1 19900810 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [A] FR 2635608 A1 19900223 - BRITISH NUCLEAR FUELS PLC [GB]
- [A] EP 0082061 A2 19830622 - COMMISSARIAT ENERGIE ATOMIQUE [FR]

Cited by

FR2772510A1; EP0753486A1; FR2736631A1; WO2009118277A1; WO2004005586A1

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