

Title (en)

PROCESS AND DEVICE FOR TREATING SOLUTIONS CONTAINING TRITIATED WATER, ELECTRODE TO BE USED IN THIS DEVICE AND ITS MANUFACTURING PROCESS

Publication

EP 0082061 B1 19880629 (FR)

Application

EP 82402226 A 19821206

Priority

FR 8123033 A 19811209

Abstract (en)

[origin: US4487670A] The invention relates to a process and to an apparatus for treating solutions containing tritiated water. According to this process, an electrolyte such as soda is added to the solution, the solution obtained then undergoes electrolysis in order to release tritium in the gaseous state. Working takes place in an electrolytic cell having a cathode made from a metal which aids the diffusion of tritium, e.g. a Pd-Ag alloy coated with porous palladium black. The cathode forms a separating wall between the solution to be electrolyzed and a tritium reception compartment. The tritium which has diffused through the wall of the cathode is recovered in the compartment. Use for the recovery of tritium from effluents resulting from the reprocessing of irradiated nuclear fuels.

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IPC 8 full level

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CPC (source: EP US)

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