

Title (en)
PROCESS FOR PARTIAL DECONTAMINATION OF RADIOACTIVE WASTE

Title (de)
VERFAHREN ZUR TEILDEKONTAMINATION RADIOAKTIVER ABFÄLLE

Title (fr)
PROCEDE DE DECONTAMINATION PARTIELLE DES DECHETS RADIOACTIFS

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Application
EP 11790855 A 20110706

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Abstract (en)
[origin: WO2012010145A1] The invention relates to a method for partially decontaminating radioactive waste. In said method, the waste is first mixed with or brought in contact with at least one corrosion medium. Then activation energy is provided to the corrosion medium so that at least a portion of the radionuclide present in the waste is converted into at least one gaseous reaction product or put into solution by hydrogen or hydrogen ions, oxygen or oxygen ions, and/or a halogen (for example, chlorine) or halogen ions from the corrosion medium. The objective of the method according to the sub-claim is to decontaminate a porous solid waste that contains 12C/13C and that is laden with the radionuclide 14C. The waste is exposed to CO₂ and/or hydrogen as a corrosion medium so that the waste is at least partially converted into at least one gaseous reaction product, wherein the process temperature is selected in such a way that the concentration of the radionuclide 14C is increased in the reaction product relative to the concentration of 12C/13C.

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