

Title (en)

METHOD AND DEVICE FOR RADIOACTIVE DECONTAMINATION OF A STEEL WALL

Title (de)

VERFAHREN UND ANLAGE ZUR RADIOAKTIVEN DEKONTAMINATION EINER STAHLWAND

Title (fr)

PROCEDE ET DISPOSITIF DE DECONTAMINATION RADIOACTIVE D'UNE PAROI EN ACIER

Publication

EP 1192623 A1 20020403 (FR)

Application

EP 00922729 A 20000425

Priority

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- FR 9905257 A 19990426

Abstract (en)

[origin: FR2792763A1] A method for the radioactive decontamination of a steel wall comprises contacting the wall to be decontaminated with a pickling solution incorporating nitric acid and a first agent, such as cerium nitrate IV, for oxidizing the metallic constituents of the steel, at an adequate temperature, in a manner that the surface of the wall may be eroded by oxidation of the metallic constituents of the steel that it contains. The contact is realized by a direct, continuous introduction, into the pickling solution, of a second oxidizing agent in a manner to continuously oxidize, at least partially, the first oxidizing agent, such as ozone possibly mixed with oxygen or nitrogen, reduced by the oxidation of the metallic constituents of the steel. The steel wall may be a wall of an internal circuit of a plant for the retreatment of irradiated nuclear fuel, for example a wall of austenitic steel. An Independent claim is included for a device for the radioactive decontamination method.

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