

Title (en)

PROCESS FOR DECONTAMINATING STEEL SURFACES AND DISPOSING OF NUCLEAR WASTES

Publication

EP 0073366 B1 19860709 (DE)

Application

EP 82107178 A 19820809

Priority

CH 561181 A 19810901

Abstract (en)

[origin: US4508641A] A solution is provided for decontaminating steel surfaces, especially in nuclear reactor cooler circuits. The solution contains formic acid and/or acetic acid and at least one reducing agent such as formaldehyde and/or acetaldehyde. The solution is effective to dissolve the iron oxide from the contaminated steel surface directly and/or reductively and to convert it to Fe-(II)-formate or acetate which are stabilized by the reducing conditions in the solution. For waste disposal the dissolved iron is precipitated from the used decontaminating solution, wherein the iron compounds that have been formed are the sole adsorbents for the radioactive materials contained in the decontaminating solution.

IPC 1-7

G21F 9/00

IPC 8 full level

G21F 9/00 (2006.01)

CPC (source: EP US)

G21F 9/004 (2013.01 - EP US)

Cited by

DE3702320A1; GB2284702A; DE4131766A1; US5340505A; US5128266A; EP0610153A1; USRE34613E; US4828759A; US4933113A; US5008044A; US6444276B2; WO0028112A1

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