

Title (en)

PROCESS FOR DECONTAMINATING RADIOACTIVELY CONTAMINATED METALIC OR CEMENT-CONTAINING MATERIALS

Publication

EP 0224510 B1 19910116 (DE)

Application

EP 86903176 A 19860527

Priority

- CH 223885 A 19850528
- CH 223985 A 19850528
- CH 232885 A 19850603

Abstract (en)

[origin: WO8607184A1] The contaminated surface layers of a material are decontaminated by treatment with an aqueous decontamination fluorine-based solution containing from 0.05 to 50 moles of decontamination agent per litre, the decontamination agent being preferably a substance selected from the group comprising hexafluorosilicate acid, fluoroboric acid and salts thereof. The decontamination solution has a very high efficiency which is particularly necessary for pressure water reactors, boiling water reactors, high temperature alloys and masonry works. The decontamination agent (HBF₄ acid) is appropriately produced by using fluoric acid or hydrogen fluoride and from contaminated boric acid from pressure water reactor waste. The HBF₄ acid thus obtained is separated from contaminants and other impurities by distillation. The spent decontamination solution may be recycled in the decontamination process after regeneration.

IPC 1-7

G21F 9/30

IPC 8 full level

G21F 9/00 (2006.01)

CPC (source: EP US)

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Cited by

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WO 8607184 A1 19861204; DE 3676962 D1 19910221; EP 0224510 A1 19870610; EP 0224510 B1 19910116; US 4828759 A 19890509; US 4933113 A 19900612; US 5008044 A 19910416

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