

Title (en)

PROCESS FOR DECONTAMINATING THE SURFACE OF A METALLIC COMPONENT CONTAMINATED BY TRITIUM, AND DEVICE FOR USING SAID PROCESS

Publication

**EP 0274329 B1 19920318 (FR)**

Application

**EP 87403007 A 19871230**

Priority

FR 8700017 A 19870105

Abstract (en)

[origin: US4836900A] The invention relates to a process for decontaminating the surface of a metal part contaminated by tritium and an apparatus usable for performing this process. In order to carry out said decontamination, the part (9) to be decontaminated is connected to the negative pole of a direct current generator, at least one portion of the surface of said part is contacted with a mixture incorporating water and an electrolyte, e.g. an aqueous solution of soda or sulphuric acid, or water and solid electrolyte (3), an electric current is passed between part (9) and anode (1) connected to the positive pole of the electric current generator (5) by applying to part (9) a current density of 10 to 50 mA.cm<sup>-2</sup> for the cathodic hydrogen charging of part (9) and the replacement by hydrogen of the tritium absorbed on the surface of said part.

IPC 1-7

**G21F 9/00**

IPC 8 full level

**C25F 1/00** (2006.01); **G21F 9/00** (2006.01); **G21F 9/28** (2006.01)

CPC (source: EP US)

**C25F 1/00** (2013.01 - EP US); **G21F 9/004** (2013.01 - EP US)

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

**EP 0274329 A1 19880713**; **EP 0274329 B1 19920318**; CA 1326643 C 19940201; DE 3777598 D1 19920423; FR 2609352 A1 19880708; FR 2609352 B1 19921030; JP 2562164 B2 19961211; JP S63214698 A 19880907; US 4836900 A 19890606

DOCDB simple family (application)

**EP 87403007 A 19871230**; CA 555775 A 19880104; DE 3777598 T 19871230; FR 8700017 A 19870105; JP 25488 A 19880104; US 14140788 A 19880104