

Title (en)

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

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Application

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Priority

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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⁻² for the cathodic hydrogen charging of part (9) and the replacement by hydrogen of the tritium absorbed on the surface of said part.

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