

Title (en)
METHOD FOR DECONTAMINATING THE SURFACE OF A COMPONENT

Title (de)
VERFAHREN ZUR DEKONTAMINATION EINER OBERFLÄCHE EINES BAUTEILES

Title (fr)
PROCEDE DE DECONTAMINATION D'UNE SURFACE D'UN ELEMENT

Publication
EP 1141445 A1 20011010 (DE)

Application
EP 99960849 A 19991102

Priority
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• DE 19851852 A 19981110

Abstract (en)
[origin: US2001031320A1] A method for decontaminating a surface includes the steps of bringing a surface of a component formed of an unalloyed steel or a low-alloy steel into contact with a solution containing an oxalic acid for dissolving a contaminated layer from the component. Ions of divalent iron in the solution instantly form a protective layer on exposed surfaces. Iron(III) oxalate is converted into iron(II) oxalate and carbon dioxide by irradiation with UV light in order to provide ions of divalent iron. Subsequent to dissolving the contaminated layer, the protective layer is dissolved by lowering the level of the ions of the divalent iron in the solution. The ions of the divalent iron and the substance having caused the contaminated layer are bound to an ion exchange resin.

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C23G 1/08; **G21F 9/00**

IPC 8 full level
G21F 9/28 (2006.01); **C23G 1/04** (2006.01); **C23G 1/08** (2006.01); **G21F 9/00** (2006.01); **G21F 9/12** (2006.01)

CPC (source: EP KR US)
C23G 1/08 (2013.01 - KR); **C23G 1/088** (2013.01 - EP US); **G21F 9/004** (2013.01 - EP US); **G21F 9/12** (2013.01 - EP US)

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