

Title (en)

PROCESS FOR DECONTAMINATION OF SURFACES OF PARTS OF THE COOLING CIRCUIT OF A NUCLEAR REACTOR

Title (de)

VERFAHREN ZUR OBERFLÄCHEN-DEKONTAMINATION VON BAUTEILEN DES KÜHLMITTELKREISLAUFS EINES KERNREAKTORS

Title (fr)

PROCÉDÉ DE DÉCONTAMINATION DES COMPOSÉES DE CIRCUIT DE REFROIDISSEMENT D'UN RÉACTEUR NUCLÉAIRE

Publication

**EP 2923360 A1 20150930 (DE)**

Application

**EP 13815419 A 20131211**

Priority

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- EP 2013076155 W 20131211

Abstract (en)

[origin: WO2014117894A1] The invention relates to a method for the chemical decontamination of a surface, having an oxide layer, of a metallic component part of the coolant system of a nuclear power plant, said method comprising at least one oxidation step, in which the oxide layer is treated with an aqueous solution containing an oxidant, and a subsequent decontamination step, in which the oxide layer is treated with an aqueous solution of a decontamination acid, which has the property of forming, with metal ions, in particular with nickel ions, a poorly soluble precipitate. Prior to implementing the decontamination step, metal ions which have dissolved during the oxidation step are removed from the aqueous solution with the aid of a cation exchanger.

IPC 8 full level

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CPC (source: CN EP US)

**G21F 9/004** (2013.01 - CN EP US); **G21F 9/28** (2013.01 - CN EP US); **G21F 9/30** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2014117894A1

Cited by

WO2018134067A1; US11443863B2

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Designated extension state (EPC)

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**DE 102013100933 B3 20140327**; AR 094610 A1 20150812; CN 104903969 A 20150909; CN 104903969 B 20171124; EP 2923360 A1 20150930; EP 2923360 B1 20160413; ES 2582377 T3 20160912; JP 2016504601 A 20160212; JP 6339104 B2 20180606; TW 201442040 A 20141101; TW I534833 B 20160521; US 2015364226 A1 20151217; WO 2014117894 A1 20140807

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