

Title (en)

METHOD FOR DECONTAMINATING RADIONUCLIDES FROM NEUTRON-IRRADIATED CARBON AND/OR GRAPHITE MATERIALS

Title (de)

VERFAHREN ZUR DEKONTAMINATION VON RADIONUKLIDEN AUS NEUTRONENBESTRAHLTEN KOHLENSTOFF- UND/ODER GRAPHITWERKSTOFFEN

Title (fr)

PROCÉDÉ DE DÉCONTAMINATION DE RADIONUCLÉIDES PRÉSENTS DANS DES MATÉRIAUX CARBONÉS ET/OU GRAPHITIQUES IRRADIÉS AVEC DES NEUTRONS

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Abstract (en)

[origin: WO2012136191A1] The invention relates to a method for decontaminating radionuclides from neutron-irradiated carbon and/or graphite materials, which are composed of a heterogeneous combination of crystalline filler materials and microcrystalline-amorphous binder materials, comprising mechanical and/or chemical treatment methods, wherein the mechanical treatment methods comprise the steps of fracturing, shaking, and sifting and the chemical treatment methods comprise supplying activation energy, characterized in that the mechanical treatment methods and/or the supply of the amount of activation energy is set in such a way that only the microcrystalline regions of the binder material and/or the entire porous body of the amorphous carbon fractions of the carbon and/or graphite material are acted on and dissolved, and that reaction products that were separated from the carbon and/or graphite materials by the mechanical and chemical treatment methods are subsequently fractionated.

IPC 8 full level

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