

Title (en)

METHOD AND DEVICE FOR DECONTAMINATING POLLUTED MATERIALS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DEKONTAMINIERUNG VERSCHMUTZTER MATERIALIEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA DÉCONTAMINATION DE MATÉRIAUX POLLUÉS

Publication

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Application

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Abstract (en)

[origin: WO2012001247A2] The invention relates to a method for decontaminating polluted materials, characterized in that it includes the steps of: loading the material to be treated into a chamber capable of being placed under high vacuum; placing the chamber under a first vacuum of less than 20 mbar, and then injecting an inerting gas, particularly nitrogen, until the pressure in the chamber rises back up above approximately 950 mbar; heating the contents of the chamber, under forced convection, to a temperature that is kept under or equal to approximately 220°C, while: the chamber is again placed under vacuum, up to a residual pressure of approximately 0.1 mbar, and the heating is continued; then an inert gas, in particular nitrogen, is injected, until the pressure rises back up to approximately 950 mbar; and then cooling the contents of the chamber under forced convection; and discharging the thus decontaminated materials from the chamber, while the extracted polluting/contaminating substances are removed in the form of a distillate.

IPC 8 full level

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