

Title (en)
METHOD FOR THE DETOXIFICATION OF AN OBJECT MADE FROM CERAMIC, GRAPHITE AND/OR CARBON CONTAMINATED WITH AT LEAST ONE TOXIC AGENT IN PARTICULAR A RADIOTOXIC AGENT

Title (de)
VERFAHREN ZUR ENTSORGUNG EINES MIT MINDESTENS EINEM TOXIKUM, INSBESONDERE RADIOTOXIKUM, KONTAMINIERTEN GEGENSTANDES AUS KERAMIK, GRAPHIT UND/ODER KOHLESTEIN

Title (fr)
PROCEDE DE MISE AU REBUT D'UN OBJET EN CERAMIQUE, GRAPHITE ET/OU CHARBON CONTAMINE PAR AU MOINS UNE MATIERE TOXIQUE, EN PARTICULIER RADIOTOXIQUE

Publication
EP 1430487 A1 20040623 (DE)

Application
EP 02758142 A 20020810

Priority
• DE 0202951 W 20020810
• DE 10148146 A 20010928

Abstract (en)
[origin: WO03032328A1] A method for the detoxification of an object made from ceramic, graphite and/or carbon contaminated with at least one toxin in particular a radiotoxin is disclosed. According to the invention, partial decontamination of the object is achieved by heating, simultaneously trapping the removed portion of the toxic agents and then the decontaminated object and the trapped toxic agents are separately subjected to further decontamination steps. The object is comminuted before, during or after the thermal treatment to give a granulate and cast with an encapsulating material such that the granulate is provided with a ceramic coating. After cooling the mixture of encapsulating agent and granulate a solid, non-combustible package is formed which can be embodied such as to be resistant to leaching and physical wear. The package can also be formed as a container for dangerous materials or as packaging for contaminated waste or for filling cavities with high long term and bleeding resistance.

IPC 1-7
G21F 9/30; **G21F 9/00**

IPC 8 full level
G21F 9/00 (2006.01); **G21F 9/30** (2006.01)

CPC (source: EP)
G21F 9/008 (2013.01); **G21F 9/305** (2013.01)

Citation (search report)
See references of WO 03032328A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03032328 A1 20030417; DE 10148146 A1 20030515; DE 10148146 B4 20090827; DE 50214295 D1 20100429; EP 1430487 A1 20040623; EP 1430487 B1 20100317; ES 2343003 T3 20100721

DOCDB simple family (application)
DE 0202951 W 20020810; DE 10148146 A 20010928; DE 50214295 T 20020810; EP 02758142 A 20020810; ES 02758142 T 20020810