

Title (en)

GRAPHITE THERMAL DECONTAMINATION WITH REDUCING GASES

Title (de)

GRAPHIT-WÄRMEDEKONTAMINATION MIT REDUZIERENDEN GASEN

Title (fr)

DÉCONTAMINATION THERMIQUE DE GRAPHITE UTILISANT DES GAZ RÉDUCTEURS

Publication

EP 2769384 B1 20181010 (EN)

Application

EP 11874351 A 20111021

Priority

US 2011057301 W 20111021

Abstract (en)

[origin: WO2013058772A1] Providing a roaster that operates at temperatures in the range of 800° Celsius to 2000° Celsius with inert, optional oxidizing and reducing gases to treat graphite contaminated with radionuclides including tritium, carbon-14, and chlorine-36. The combination of temperatures and gases allow for the removal of most to substantially all the carbon-14 within the graphite while substantially limiting gasifying the bulk graphite.

IPC 8 full level

G21F 9/14 (2006.01); **G21C 1/00** (2018.01); **G21F 9/00** (2006.01); **G21F 9/32** (2006.01)

CPC (source: EP)

G21F 9/14 (2013.01); **G21F 9/32** (2013.01)

Cited by

US10930406B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013058772 A1 20130425; CN 104137189 A 20141105; CN 104137189 B 20170725; EP 2769384 A1 20140827; EP 2769384 A4 20150722; EP 2769384 B1 20181010; ES 2700787 T3 20190219; JP 2014532855 A 20141208; JP 5844474 B2 20160120; KR 101666138 B1 20161013; KR 20140101735 A 20140820; LT 2769384 T 20181227; RU 2014120424 A 20151210; ZA 201402825 B 20160127

DOCDB simple family (application)

US 2011057301 W 20111021; CN 201180074303 A 20111021; EP 11874351 A 20111021; ES 11874351 T 20111021; JP 2014537046 A 20111021; KR 20147013162 A 20111021; LT 11874351 T 20111021; RU 2014120424 A 20111021; ZA 201402825 A 20140416