

Title (en)  
PROCESS AND DEVICE FOR TREATING SOLID ORGANIC WASTES CONTAMINATED BY TRITIUM

Publication  
**EP 0307306 B1 19921202 (FR)**

Application  
**EP 88402247 A 19880907**

Priority  
FR 8712510 A 19870909

Abstract (en)  
[origin: JPH0199000A] PURPOSE: To reduce the radioactivity of tritium of a waste to 10 Ci/t or less by causing the waste to contact steam under the conditions where at least one portion of tritium in the waste is extracted into the steam. CONSTITUTION: First, a waste to be treated is placed on a lattice 17 of a drying container 1 and the pressure of the entire device is set to an atmospheric pressure or less by a group of vacuum pumps. Then, the water of a steam generator 7 is set to a desired temperature T and that of the drying container 1 is also adjusted to the same temperature T. Then, a pressure P of steam introduced into the drying container 1 is adjusted to be equal to or less than a steam pressure P of water 23 of the steam generator 7 by opening a valve 27. Then, a valve 10 of a conduit 9 is opened, steam is circulated in the drying container 1 for a desired period, and tritium is extracted from the waste. Then, steam is condensed in coolers 11 and 13 and stored in a tank 15, thus reducing the radioactivity of tritium of the waste to 10Ci/t or less.

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

IPC 8 full level  
**G21F 9/02** (2006.01); **G21F 9/30** (2006.01); **G21F 9/32** (2006.01)

CPC (source: EP US)  
**G21F 9/30** (2013.01 - EP US); **Y10S 422/903** (2013.01 - EP US)

Cited by  
DE4029222C1; DE3930420C1; US5707592A

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**EP 0307306 A1 19890315**; **EP 0307306 B1 19921202**; CA 1333324 C 19941206; DE 3876345 D1 19930114; DE 3876345 T2 19930527; FR 2620262 A1 19890310; FR 2620262 B1 19891117; JP 2807237 B2 19981008; JP H0199000 A 19890417; US 4882093 A 19891121

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