

Title (en)

A process for treating effluent gases arising from the reprocessing of irradiated nuclear fuels.

Title (de)

Verfahren zur Behandlung von von der Wiederaufbereitung von bestrahlten Kernbrennstoffen stammenden Abströmgasen.

Title (fr)

Procédé de traitement d'effluents gazeux provenant du retraitement des combustibles nucléaires irradiés.

Publication

**EP 0008273 A1 19800220 (FR)**

Application

**EP 79400556 A 19790806**

Priority

FR 7823735 A 19780811

Abstract (en)

[origin: US4277363A] The method for processing a mixture of air and rare gases consisting especially of xenon and krypton which are at least partially radioactive and especially for processing gaseous effluents arising from the reprocessing of irradiated fuels comprises a step involving concentration of the rare gases in solution in liquid argon by cryogenic distillation of the light gases and mainly nitrogen from the liquefied mixture.

Abstract (fr)

Procédé de traitement d'effluents gazeux. Il se caractérise en ce qu'il comprend une étape de concentration des gaz rares en solution dans de l'argon liquide (2), par distillation cryogénique des gaz légers (3 et 4), et principalement de l'azote, à partir d'un mélange liquéfié. Application au traitement des combustibles irradiés.

IPC 1-7

**G21F 9/02**; **F25J 3/02**; **C01B 23/00**

IPC 8 full level

**C01B 23/00** (2006.01); **F25J 3/02** (2006.01); **G21F 9/00** (2006.01); **G21F 9/02** (2006.01)

CPC (source: EP US)

**F25J 3/028** (2013.01 - EP US); **G21F 9/02** (2013.01 - EP US); **F25J 2205/40** (2013.01 - EP US); **F25J 2205/82** (2013.01 - EP US); **F25J 2210/40** (2013.01 - EP US); **F25J 2215/34** (2013.01 - EP US); **F25J 2215/36** (2013.01 - EP US); **Y10S 62/925** (2013.01 - EP)

Citation (search report)

- FR 2280954 A1 19760227 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- US 4012490 A 19770315 - LOFREDO ANTONY
- RAPPORT IN-1221 (microfilm, Avril 1969, 47 pages), Idaho Nuclear Corp.: "Rare gas recovery facility at the Idaho Chemical processing plant" BENDIXSEN et OFFUTT. \* "Summary", page 1 \*

Designated contracting state (EPC)

BE DE GB

DOCDB simple family (publication)

**EP 0008273 A1 19800220**; **EP 0008273 B1 19820324**; **EP 0008273 B2 19880127**; DE 2962341 D1 19820429; FR 2433229 A1 19800307; FR 2433229 B1 19810130; JP S5547499 A 19800403; JP S5853320 B2 19831128; US 4277363 A 19810707

DOCDB simple family (application)

**EP 79400556 A 19790806**; DE 2962341 T 19790806; FR 7823735 A 19780811; JP 10082979 A 19790809; US 6610379 A 19790813