

Title (en)

A PROCESS FOR THE COMBUSTION, SEPARATION, AND SOLIDIFICATION OF <sup>3</sup>H AND <sup>14</sup>C FROM COMBUSTIBLE LIQUIDS.

Publication

**EP 0603708 A3 19940727 (EN)**

Application

**EP 93120118 A 19931214**

Priority

US 99394592 A 19921218

Abstract (en)

[origin: EP0603708A2] This invention relates to a process for combustion, separation, and solidification of <sup>3</sup>H and <sup>14</sup>C from a combustible liquid stream. Gaseous combustion gases containing <sup>3</sup>H<sub>2</sub>O and <sup>14</sup>C<sup>14</sup>CO<sub>2</sub> are processed by absorption of the <sup>14</sup>C<sup>14</sup>CO<sub>2</sub> with caustic solution to produce a <sup>14</sup>C<sup>14</sup>C salt and condensation and/or removal of gaseous <sup>3</sup>H<sub>2</sub>O through the use of a desiccating agent. Liquid <sup>3</sup>H<sub>2</sub>O and a slurry solution containing the <sup>14</sup>C<sup>14</sup>C salt are solidified through the addition of a solidifying agent. <IMAGE>

IPC 1-7

**G21F 9/14**; **G21F 9/32**

IPC 8 full level

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CPC (source: EP)

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

Citation (search report)

- [Y] EP 0149783 A2 19850731 - HITACHI LTD [JP]
- [YP] DE 4141269 A1 19930617 - RWE ENERGIE AG [DE]
- [Y] DATABASE INIS INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA), VIENNA, AT; NOTZ, K.J. ET AL: "Processes for the control of <sup>14</sup>CO<sub>2</sub> during reprocessing." & JUL 1980. 30 P. AVAILABLE FROM NTIS., PC A03/MF A01., UNITED STATES

Cited by

CN113270215A; CN109727689A; WO03008960A3

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DOCDB simple family (publication)

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