

Title (en)
NUCLEAR FUEL REPROCESSING

Title (de)
WIEDERAUFBEREITUNG VON KERNBRENNSTOFFEN

Title (fr)
RETRAITEMENT DE COMBUSTIBLE NUCLEAIRE

Publication
EP 1091908 A1 20010418 (EN)

Application
EP 99925171 A 19990528

Priority

- GB 9901711 W 19990528
- GB 9811727 A 19980602
- GB 9818380 A 19980824

Abstract (en)
[origin: WO9962824A1] There is described a method for treating or reprocessing spent nuclear fuel in which an organic phase is contacted with an aqueous nitric acid phase containing zirconium, technetium and at least one extractable actinide metal such that the at least one extractable metal is extracted into the organic phase characterised in that the zirconium and technetium predominantly remain in the aqueous phase. There is also described a Purex reprocessing plant, and the use of such a plant in simultaneously separating both zirconium and technetium along with other fission products from uranium and plutonium.

IPC 1-7
C01G 56/00; **G21C 19/46**

IPC 8 full level
C01G 56/00 (2006.01); **C22B 60/02** (2006.01); **G21C 19/46** (2006.01)

CPC (source: EP)
C01G 56/001 (2013.01); **C22B 60/0239** (2013.01); **C22B 60/026** (2013.01); **G21C 19/46** (2013.01); **Y02E 30/30** (2013.01); **Y02W 30/50** (2015.05)

Designated contracting state (EPC)
FR

DOCDB simple family (publication)
WO 9962824 A1 19991209; EP 1091908 A1 20010418; JP 2002516810 A 20020611

DOCDB simple family (application)
GB 9901711 W 19990528; EP 99925171 A 19990528; JP 2000552044 A 19990528