

Title (en)
IODINE EXTRACTION METHOD

Title (de)
VERFAHREN ZUM EXTRAHIEREN VON JOD

Title (fr)
PROCEDE D EXTRACTION DE L IODE

Publication
EP 1455919 A1 20040915 (FR)

Application
EP 02799768 A 20021203

Priority
• FR 0204152 W 20021203
• FR 0115722 A 20011205

Abstract (en)
[origin: WO03047716A1] The invention concerns a method for extracting iodine from a first aqueous acid solution, which consists in contacting said first aqueous solution with an organic phase comprising an organic solvent selected from the group consisting of: compounds of formula (I), wherein: n is an integer ranging from 4 to 8, hexane, hexylbenzene, 1,3-diisopropylbenzene; and mixtures thereof, so as to transfer the iodine from the first aqueous solution into said organic phase. Said method may comprise a step for re-extraction of the iodine from the organic phase into a second aqueous solution. In that case, a microporous membrane, impregnated in the organic phase, can be used, said membrane ensuring separation between the first aqueous phase and the second aqueous phase. The invention is applicable to radioactive iodine extraction in spent fuel reprocessing.

IPC 1-7
B01D 11/04; **G21F 9/04**

IPC 8 full level
G21F 9/06 (2006.01); **B01D 11/04** (2006.01); **B01D 61/24** (2006.01); **B01D 61/58** (2006.01); **B01D 71/26** (2006.01); **G21F 9/04** (2006.01)

CPC (source: EP)
G21F 9/04 (2013.01)

Citation (search report)
See references of WO 03047716A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 03047716 A1 20030612; AU 2002364413 A1 20030617; DE 60239153 D1 20110324; EP 1455919 A1 20040915; EP 1455919 B1 20110209; FR 2832997 A1 20030606; FR 2832997 B1 20040514; JP 2005511268 A 20050428; JP 4528914 B2 20100825

DOCDB simple family (application)
FR 0204152 W 20021203; AU 2002364413 A 20021203; DE 60239153 T 20021203; EP 02799768 A 20021203; FR 0115722 A 20011205; JP 2003548966 A 20021203