

Title (en)

A LIQUID MEMBRANE PROCESS FOR URANIUM RECOVERY

Publication

EP 0064877 B1 19860115 (EN)

Application

EP 82302373 A 19820510

Priority

US 26239481 A 19810511

Abstract (en)

[origin: EP0064877A1] An emulsion extraction process for recovering uranium from a WPPA feed solution containing uranyl cations wherein the WPPA feed is contacted with a water-in-oil emulsion which extracts and captures the uranium in the emulsion, wherein the improvement comprises adding excess oxidizing agent to the WPPA feed before or during the time that the feed is contacted with the emulsion. This results in both higher levels of uranium extraction and higher concentrations of uranium in the emulsion.

IPC 1-7

C22B 60/02; **C01G 43/00**

IPC 8 full level

C01G 43/00 (2006.01); **C22B 60/02** (2006.01)

CPC (source: EP)

C22B 60/026 (2013.01)

Citation (examination)

- JOURNAL OF INORGANIC & NUCLEAR CHEMISTRY, vol.40, no.1, 1978, Pergamon Press, (GB) F.T. BUNUS et al.: "Synergic extraction of uranium from phosphate solutions with Di-(2ethylhexyl) phosphoric acid and Tri-n-octylphosphine oxide", pages 117-121
- INDUSTRIAL AND ENGINEERING CHEMISTRY; PROCESS DESIGN AND DEVELOPMENT, vol.11, no.1, 1972, American Chemical Society, Washington D.C. (US) F.J. HURST et al.: "Recovery of uranium from wet-process phosphoric acid", pages 122-128

Cited by

CN103045869A; US7161535B2

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

EP 0064877 A1 19821117; **EP 0064877 B1 19860115**; CA 1191696 A 19850813; DE 3268504 D1 19860227; JP S589823 A 19830120; ZA 823194 B 19830427

DOCDB simple family (application)

EP 82302373 A 19820510; CA 402151 A 19820503; DE 3268504 T 19820510; JP 7909482 A 19820511; ZA 823194 A 19820510