

Title (en)

PROCESS FOR EXTRACTING URANIUM AND/OR PLUTONIUM IV FROM AN AQUEOUS SOLUTION BY MEANS OF N,N-DIALKYLAMIDES

Publication

**EP 0228940 B1 19900808 (FR)**

Application

**EP 86402671 A 19861202**

Priority

FR 8518015 A 19851205

Abstract (en)

[origin: US4772429A] The invention relates to a process for the extraction of uranium (VI) and/or plutonium (IV) present in an aqueous solution by means of N,N-dialkylamides. These N,N-dialkylamides are in accordance with formula: <IMAGE> (I) in which R1 is a straight or branched alkyl radical with 2 to 12 carbon atoms, R2 and R4, which can be the same or different, are straight or branched alkyl radicals with 2 to 6 carbon atoms, R3 and R5, which can be the same or different, are straight or branched alkyl radicals with 1 to 6 carbon atoms and a and b, which can be the same or different, are integers between 1 and 6. For example, it is possible to use N,N-di-(2-ethyl hexyl)-2,2-dimethyl butyramide, N,N-di-(2-ethyl hexyl)-hexanamide or N,N-di-(2-ethyl hexyl)-dodecanamide for simultaneously extracting uranium and plutonium, or for separating the uranium from the plutonium without reducing the latter.

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IPC 8 full level

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Cited by

FR2840446A1; FR2642561A1; EP0505277A1; FR2674256A1; US5223232A; EP0381579A1; FR2642562A1; US5132092A; FR3062128A1; GB2572921A; RU2762634C2; GB2572921B; US11578031B2; WO2018138441A1

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