

Title (en)
PROCESS FOR THE FINE PURIFICATION OF FISSION MOLYBDENUM

Publication
EP 0245588 A3 19880706 (DE)

Application
EP 87102017 A 19870213

Priority
DE 3616391 A 19860515

Abstract (en)
[origin: EP0245588B1] 1. Process for the fine purification of fission molybdenum, dissolved in anionic form together with anions of the fission products of I, Sn, Ce, Ru and Zr in aqueous, mineral acid solution, wherein a) the fission molybdenum is fixed on a metallic oxide in a sorption step and b) released again in a desorption step, characterised in that c) the aqueous solution is passed over an amphoteric oxide for the sorption of the anions of Mo, I, Ce, Ru, Sn and Zr ; d) the charged oxide is dried and then, for the sublimation of the Mo, is heated to a temperature in the range of between 1200 degrees C and 1300 degrees C and is simultaneously charged with a carrier gas stream containing water vapour ; e) by cooling-down to a temperature of less than 600 degrees C, the Mo is desublimated from the carrier gas stream and, after further cooling-down to ambient temperature, the resultant Mo residue is dissolved in an aqueous solution of a strong alkali and converted into a molybdate solution.

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G21G 4/08

IPC 8 full level
G21G 4/08 (2006.01)

CPC (source: EP US)
G21G 4/08 (2013.01 - EP US)

Citation (search report)
• [A] DD 136385 A1 19790704 - ECKARDT ARMIN, et al
• [XP] CHEMICAL ABSTRACTS, Band 105, 1986, Zusammenfassung Nr. 160471u, Columbus, Ohio, US; J. BUERCK: "Sorption behavior and thermal desorption of fission products from loaded metal oxide exchangers", & KERNFORSCHUNGSZENT. KARLSRUHE, [BER.] KfK 1986, KfK 4095, 156 pp
• [A] KERNENERGIE, Band 28, Nr. 8, 1985, Seiten 352-354; G. BERNHARD et al.: "Eine Anlage zur Feinreinigung von Spaltmolybdän"

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CN110129573A; US5508010A; GB2227599A; GB2227599B; AU628468B2; WO9407247A1

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