

Title (en)

PROCESS FOR EXTRACTING URANIUM FROM PHOSPHORIC ACIDS USING ALKYLPIROPHOSPHORIC ACIDS

Publication

EP 0100744 B1 19851218 (FR)

Application

EP 83420127 A 19830720

Priority

FR 8213820 A 19820730

Abstract (en)

[origin: ES8404419A1] A process for extracting the uranium contained in phosphoric acid solutions by means of an extracting agent comprising an alkylpyrophosphoric acid, which comprises bringing into contact, in an agitated condition, the inorganic, phosphoric acid phase and an organic phase containing the extracting agent, thereby producing an emulsion, which is characterized in that, in an extraction unit comprising n stages in a cascade configuration, for each extraction stage, the emulsion is produced in a first step by simultaneously subjecting the two phases for a period of time T1 to an intense mechanical shearing action corresponding to a shearing coefficient of at least 5000 seconds⁻¹ in order to multiply the contact surfaces for contact between said two phases, and then said emulsion in a second step is abruptly broke in a time T2, the sum of the times required for carrying out the two steps being at most 20 minutes.

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