

Title (en)

METHOD FOR OBTAINING CAESIUM FROM AQUEOUS STARTING SOLUTIONS

Title (de)

VERFAHREN ZUR CÄSIUM-GEWINNUNG AUS WÄSSRIGEN AUSGANGSLÖSUNGEN

Title (fr)

PROCÉDÉ POUR LA PRODUCTION DE CÉSIUM À PARTIR DE SOLUTIONS DE DÉPART AQUEUSES

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Application

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Abstract (en)

[origin: WO2019011876A1] The invention relates to a method for obtaining caesium from aqueous starting solutions having caesium contents in the range of 50 ppm to 5000 ppm, in which method the caesium ions in the aqueous solution are, in a first step, precipitated as a double salt having divalent cations with the aid of an at least 1.1-times overstoichiometric amount of solutions containing prussiate of potash, in a pH range of 2 to 12 and a temperature range of 10 to 80 °C, the divalent cations either already being present in the starting solutions in an amount at least equimolar to the caesium content or being added as a water-soluble salt, and, in a second step, converted back into a water-soluble form by thermal decomposition and, in a third step, separated from the insoluble residues.

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