

Title (en)

METHOD FOR HYDROMETALLURGICAL PROCESSING OF A NOBLE METAL-TIN ALLOY

Title (de)

VERFAHREN ZUR HYDROMETALLURGISCHEN AUFGARBEITUNG EINER EDELMETALL-ZINN-LEGIERUNG

Title (fr)

PROCÉDÉ DE TRAITEMENT HYDRO-MÉTALLURGIQUE D'UN ALLIAGE DE MÉTAL PRÉCIEUX - ÉTAIN

Publication

EP 3749792 A1 20201216 (DE)

Application

EP 18753327 A 20180730

Priority

- EP 18155948 A 20180209
- EP 2018070531 W 20180730

Abstract (en)

[origin: WO2019154530A1] A method for the hydrometallurgical processing of a noble metal-tin alloy consisting of (i) 0.45 to 25 wt.% of at least one metal A selected from the group consisting of gold and platinum, (ii) 35 to 99.2 wt.% of at least one metal B selected from the group consisting of palladium, silver and copper, (iii) 0.3 to 30 wt.% tin and (iv) 0 to 50 wt.% of at least one of an element other than gold, platinum, palladium, silver, copper and tin, the alloy having a metal A : tin ratio by weight of > 0.7 : 1, comprising the steps: (a1) targeted selection of the noble metal-tin alloy or (a2) targeted production of the noble metal-tin alloy, (b) dissolving the nitric acid-soluble components of the noble metal-tin alloy in nitric acid to form a nitric acid solution comprising the at least one metal B as a dissolved nitrate and an undissolved residue, (c) separating the undissolved residue from the nitric acid solution, and (d) dissolving the separated residue in hydrochloric acid and a medium comprising at least one oxidising agent.

IPC 8 full level

C22C 11/04 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2019154530A1

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DOCDB simple family (application)

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