

Title (en)

PROCESS FOR THE RECOVERY OF LEAD AND SILVER FROM MINERALS AND PROCESS RESIDUES

Publication

EP 0042702 B1 19840926 (EN)

Application

EP 81302614 A 19810612

Priority

CA 354083 A 19800616

Abstract (en)

[origin: EP0042702A1] Residues containing lead as lead sulphate and silver in the form of native silver or silver chloride, sulfide or sulphate, as well as silver complexes with other metals, and resulting from the roasting and leaching of sulfide concentrates containing lead, zinc, copper, and silver are treated to produce a high grade lead and silver product containing lead predominantly as calcium plumbate in a process wherein the residue is leached with brine, the resultant leach solution treated with lime to precipitate lead as oxychlorides, and the resultant lime-oxychloride precipitate is calcined to produce a mixture of calcium orthoplumbate and lead oxide. Residual chloride can be washed easily from this product which may then be treated in a lead blast furnace to recover lead and associated silver in their elemental state.

IPC 1-7

C22B 13/00; **C22B 11/00**

IPC 8 full level

C01G 5/00 (2006.01); **C01G 21/06** (2006.01); **C01G 21/20** (2006.01); **C01G 21/22** (2006.01); **C22B 11/00** (2006.01); **C22B 13/00** (2006.01)

CPC (source: EP)

C22B 11/00 (2013.01); **C22B 13/00** (2013.01)

Citation (examination)

US BUREAU OF MINES, Bulletin 157, 1918, WASHINGTON (US) D.A. LYON et al.: "Innovations in the metallurgy of lead", pages 168-169

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CN112442602A; CN104789790A; RU2670117C2; US10526683B2

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

EP 0042702 A1 19811230; **EP 0042702 B1 19840926**; AU 549357 B2 19860123; AU 7184681 A 19811224; CA 1156048 A 19831101; DE 3166293 D1 19841031; ES 502948 A0 19821116; ES 8301284 A1 19821116; FI 71342 B 19860909; FI 71342 C 19861219; FI 811847 L 19811217; IE 52179 B1 19870805; IE 811310 L 19811216; JP S5729541 A 19820217; JP S6352094 B2 19881018; PT 73185 A 19810701; PT 73185 B 19820716; ZA 813982 B 19820825

DOCDB simple family (application)

EP 81302614 A 19810612; AU 7184681 A 19810615; CA 354083 A 19800616; DE 3166293 T 19810612; ES 502948 A 19810611; FI 811847 A 19810612; IE 131081 A 19810612; JP 9294681 A 19810616; PT 7318581 A 19810612; ZA 813982 A 19810612