Title (en)
Process for the recovery of lead and silver from minerals and process residues.

Title (de)
Verfahren zur Rückgewinnung von Blei und Silber aus Erzen und Rückständen.

Title (fr)
Procédé pour la récupération de plomb et d'argent à partir de résidus.

Publication
EP 0042702 A1 19811230 (EN)

Application
EP 81302614 A 19810612

Priority
CA 354083 A 19800616

Abstract (en)
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 (search report)
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Designated contracting state (EPC)
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DOCDB simple family (publication)
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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