

Title (en)

A method of refining crude lead.

Title (de)

Verfahren zum Reinigen von Rohblei.

Title (fr)

Procédé pour le raffinage de plomb brut.

Publication

EP 0006832 A1 19800109 (EN)

Application

EP 79850059 A 19790615

Priority

SE 7807358 A 19780629

Abstract (en)

A method of refining crude lead from copper-containing lead raw-materials which possibly also contain arsenic and which are of a metallic, oxidic, sulphatic or sulphidic type, in a furnace in which the contents thereof can be subjected to turbulence, preferably in a top blown rotary converter, for example, of the Kaldotype. According to the invention, subsequent to chemical reduction and tapping-off of the slag, the crudelead melt is cooled to a temperature beneath about 700 DEG C whilst strongly agitating said melt, in order to separate out a copper phase or a copper speiss. The coolant used may be an oxidic or sulphatic lead raw-material, a crushed iron-silicate slag, a slag former, and, preferably, water in liquid finely-divided form, Large quantities of arsenic can be removed prior to said cooling, by forming an iron speiss, by adding iron to the crude-lead melt or forming iron in situ therewith.

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C22B 13/02; **C22B 13/06**

IPC 8 full level

C22B 13/06 (2006.01)

CPC (source: EP)

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Citation (search report)

- SE 7317219 A
- SE 7317217 A
- DE 2459756 B2 19770331
- DE 2459832 B2 19780202
- DE 1189279 B 19650318 - BREVETS METALLURGIQUES
- US 3666441 A 19720530 - MILNER GEOFFREY
- DE 1174511 B 19640723 - BROKEN HILL ASS SMELTER
- DE 1199003 B 19650819 - METALLGESELLSCHAFT AG

Cited by

CN108461849A; CN106756090A; US4508565A

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