

Title (en)
PROCESS FOR LEACHING NOBLE METALS FROM ORES OR THEIR CONCENTRATES USING CYANIDIC SOLUTIONS WITH ADDITIONS OF HYDROGEN PEROXIDE

Publication
EP 0265736 A3 19900124 (DE)

Application
EP 87114714 A 19871008

Priority
DE 3637082 A 19861031

Abstract (en)
[origin: EP0265736A2] Leaching of gold and/or silver from ores or ore concentrates in an aqueous alkaline cyanide solution with added hydrogen peroxide has so far not been used industrially, because it is uneconomical, i.e. the consumption of H₂O₂ and NaCN was unduly high. It has been found that the process can be made very economical and disadvantages of the conventional leaching technology can be avoided if the addition of the aqueous H₂O₂ solution is controlled via the concentration of the oxygen dissolved in the leaching solution, which contains 2 to 20 mg of O₂ and preferably 7 to 13 mg of O₂ per litre. Preferably, 0.5 to 5% by weight of H₂O₂ solutions are added under control. The process is applicable to agitation leaching and heap leaching, the H₂O₂ addition being controlled via measuring the O₂ concentration in a measuring stream. At low consumption of H₂O₂ and NaCN, sometimes the gold yield is even increased and the leaching time is shortened.

IPC 1-7
C22B 11/08

IPC 8 full level
C22B 11/08 (2006.01)

CPC (source: EP US)
C22B 11/08 (2013.01 - EP US)

Citation (search report)

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- [AD] CANADIAN MINING JOURNAL, Band 88, August 1967, Seiten 55-60, National Business Publications Ltd, Gardenvale, CA; E.L. DAY: "Some factors influencing the rate of dissolution of gold in sodium cyanide solutions"
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Designated contracting state (EPC)
ES FR GB

DOCDB simple family (publication)
EP 0265736 A2 19880504; EP 0265736 A3 19900124; EP 0265736 B1 19920115; AR 240177 A1 19900228; AU 589818 B2 19891019; AU 8053387 A 19880505; BR 8705756 A 19880531; CA 1331518 C 19940823; DE 3637082 C1 19880519; DO P1987004572 A 19981205; ES 2027674 T3 19920616; MX 169904 B 19930730; NZ 222354 A 19890927; PH 24130 A 19900305; PT 86035 A 19871101; PT 86035 B 19900831; US 5275791 A 19940104; ZA 876329 B 19880329

DOCDB simple family (application)
EP 87114714 A 19871008; AR 30912487 A 19871027; AU 8053387 A 19871030; BR 8705756 A 19871028; CA 550705 A 19871030; DE 3637082 A 19861031; DO 1987004572 A 19871009; ES 87114714 T 19871008; MX 895987 A 19871023; NZ 22235487 A 19871029; PH 36007 A 19871030; PT 8603587 A 19871029; US 89906092 A 19920616; ZA 876329 A 19870825