

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 H<sub>2</sub>O<sub>2</sub> 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 H<sub>2</sub>O<sub>2</sub> solution is controlled via the concentration of the oxygen dissolved in the leaching solution, which contains 2 to 20 mg of O<sub>2</sub> and preferably 7 to 13 mg of O<sub>2</sub> per litre. Preferably, 0.5 to 5% by weight of H<sub>2</sub>O<sub>2</sub> solutions are added under control. The process is applicable to agitation leaching and heap leaching, the H<sub>2</sub>O<sub>2</sub> addition being controlled via measuring the O<sub>2</sub> concentration in a measuring stream. At low consumption of H<sub>2</sub>O<sub>2</sub> and NaCN, sometimes the gold yield is even increased and the leaching time is shortened.

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**C22B 11/08**

IPC 8 full level  
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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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