

Title (en)  
Method of preparing high purity gold from precious metal bearing nitrate solutions

Title (de)  
Verfahren zur Herstellung von Gold hoher Reinheit aus nitrathaltigen Edelmetall-Lösungen

Title (fr)  
Procédé pour obtenir de l'or de pureté élevée à partir de solutions de nitrates des métaux précieux

Publication  
**EP 1061144 B1 20031029 (DE)**

Application  
**EP 00111133 A 20000524**

Priority  
DE 19928028 A 19990618

Abstract (en)  
[origin: DE19928028C1] High purity gold recovery from nitrate solution involves nitrate decomposition and gold recovery from the resulting highly acidic solution by ferric ion addition. High purity gold is recovered from nitrate-containing precious metal solution by: (a) nitrate decomposition to obtain a solution with <math>\text{~}\text{l}\text{-}4\text{ mol/l H}^{+}</math> ion concentration; and (b) gold ion reduction by addition of an acidic <math>\text{Fe}^{2+}</math> solution having a <math>\text{~}\text{l}\text{-}4\text{ mol/l H}^{+}</math> ion concentration. Preferred Features: Step (a) is carried out using formic or ascorbic acid at 80-90 deg C, and step (b) is carried out under potential control at 60 deg C.

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IPC 8 full level  
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