

Title (en)

HEMATITE PRECIPITATION AT ELEVATED TEMPERATURE AND PRESSURE

Title (de)

FÄLLUNG VON HÄMATIT BEI ERHÖHTER TEMPERATUR UND ERHÖHTEM DRUCK

Title (fr)

PRECIPITATION D'HEMATITE A HAUTE TEMPERATURE ET HAUTE PRESSION

Publication

EP 1994190 A4 20101117 (EN)

Application

EP 07701539 A 20070223

Priority

- AU 2007000210 W 20070223
- AU 2006900934 A 20060224

Abstract (en)

[origin: WO2007095689A1] A hydrometallurgical method (10) for precipitating iron as hematite at elevated temperature and pressure from a pregnant leach solution ("PLS") (12) containing nickel, cobalt and iron, the method comprising the steps of: (i) leaching a low to medium grade nickel laterite ore to produce a PLS (12) containing nickel, cobalt and ferric iron; (ii) subjecting the PLS (12) to elevated temperatures and pressures for a time sufficient to precipitate iron as hematite; (iii) passing the product of step (ii) through a solids/liquid separation circuit (26) to substantially remove the hematite precipitate, and produce a substantially iron-free, acid containing solution; and (iv) recovering nickel and cobalt from the final substantially iron-free, acid containing solution.

IPC 8 full level

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CPC (source: EP)

C22B 23/043 (2013.01); **C22B 23/0461** (2013.01)

Citation (search report)

- [X] US 2006024224 A1 20060202 - NEUDORF DAVID [CA], et al
- [X] US 2006002835 A1 20060105 - NEUDORF DAVID [CA]
- [A] US 3804613 A 19740416 - TAYLOR M, et al
- [A] US 4093526 A 19780606 - BLANCO JORGE L, et al
- [A] US 6391089 B1 20020521 - CURLOOK WALTER [CA]
- See references of WO 2007095689A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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