Title (en)

IMPROVED BASE METAL RECOVERY PROCESS FROM HEAP LEACHING

Title (de)

VERBESSERTES VERFAHREN ZUR GEWINNUNG VON NICHTEDELMETALLEN AUS DER HALDENAUSLAUGUNG

Title (fr)

PROCEDE AMELIORE DE RECUPERATION D'UN METAL DE BASE A PARTIR D'UNE LIXIVIATION EN TAS

Publication

EP 1984528 A4 20101103 (EN)

Application

EP 07701420 A 20070131

Priority

- AU 2007000087 W 20070131
- AU 2006900441 A 20060131
- AU 2006901075 A 20060303

Abstract (en)

[origin: WO2007087675A1] A process for the recovery of base metals from an oxide ore, comprising the steps of: e) forming at least one heap (40) of the oxide ore containing the base metals to be recovered; f) irrigating the at least one heap (40) of oxide ore with a leach solution (42) comprising sulphuric acid; g) collecting resulting pregnant leach solution (44,50) from the irrigated heap (40); and treating the pregnant leach solution (44,50) with a reducing gas stream to create a treated pregnant leach solution for recovery of required base metals. The process is applicable to treatment of laterite ores and the conversion of ferric ions to ferrous ions, with regeneration of sulphuric acid in the process, has benefits in terms of enhanced process efficiency and reduced operating costs.

IPC 8 full level

C22B 3/08 (2006.01); **C22B 3/44** (2006.01)

CPC (source: EP)

C22B 3/08 (2013.01); **C22B 23/043** (2013.01); **C22B 23/0461** (2013.01); Y02P 10/20 (2015.11)

Citation (search report)

- [XA] AU 463261 B2 19750703
- [ED] WO 2007016737 A1 20070215 - MURRIN MURRIN OPERATIONS PTY [AU], et al
- [A] WO 2004046036 A2 20040603 - PLACER DOME TECHNICAL SERVICES [CA]
- [A] GB 1368192 A 19740925 - INT NICKEL CANADA
- See references of WO 2007087675A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

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