

Title (en)
METHOD FOR THE PRECIPITATION OF NICKEL

Title (de)
VERFAHREN ZUR FÄLLUNG VON NICKEL

Title (fr)
PROCÉDÉ DE PRÉCIPITATION DE NICKEL

Publication
EP 1971696 A4 20130904 (EN)

Application
EP 07701358 A 20070110

Priority
• AU 2007000013 W 20070110
• AU 2006900103 A 20060110

Abstract (en)
[origin: WO2007079531A1] A method (10) for the recovery of nickel and cobalt from leach solutions in the presence of iron and/or chrome, the method comprising the steps of: i) adding a reductant (13) to a leach solution containing nickel, cobalt and iron, such that any iron present as ferric sulphate is reduced to ferrous sulphate and/or any hexavalent chrome is reduced to trivalent chrome; ii) neutralising (14) at least a portion of the free acid through addition of a neutralising agent; iii) further addition of the reducing agent (15) to ensure all iron present remains in the ferrous form and/or any chrome remains in the trivalent form; iv) heating the solution prior to mixed sulphide precipitation; v) adding a mixed sulphide seed (21) and hydrogen sulphide (22) to effect precipitation (20) of the nickel and cobalt in the form of a mixed sulphide product (24); and vi) maintaining this mixture in the presence of hydrogen sulphide (22) for the required residence time to effect complete precipitation of the mixed sulphide product (24).

IPC 8 full level
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Citation (search report)
• [AD] WO 2004016816 A1 20040226 - WMC RESOURCES LTD [AU], et al
• See references of WO 2007079531A1

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