

Title (en)
PRODUCTION OF HIGH PURITY NICKEL AND COBALT COMPOUNDS

Title (de)
HERSTELLUNG VON HOCHREINEN NICKEL- UND KOBALTVERBINDUNGEN

Title (fr)
PRODUCTION DE COMPOSÉS DE NICKEL ET DE COBALT DE HAUTE PURETÉ

Publication
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Application
EP 22806133 A 20220513

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Abstract (en)
[origin: WO2022236381A1] A process for separating nickel and/or cobalt salts from crude nickel and/or cobalt bearing materials is disclosed. The process comprises treating a crude nickel and/or cobalt bearing material with a salt of iron or aluminium under conditions to remove at least some of one or more alkali metal ion and/or monovalent cation species as a jarosite / alunite precipitate to provide a solution having a reduced content of one or more alkali metal ion and/or monovalent cation species; and subjecting the solution obtained to increasing pH in a stepwise manner under conditions to provide a feed solution for further purification to produce nickel and/or cobalt salts suitable for the production of battery grade nickel or cobalt salts. A process for obtaining purified nickel and cobalt from the feed solution is also disclosed.

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