

Title (en)

METHOD FOR PRODUCING COBALT POWDER

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOBALTPULVER

Title (fr)

PROCÉDÉ DE PRODUCTION DE POUDRE DE COBALT

Publication

**EP 3321015 A1 20180516 (EN)**

Application

**EP 16821264 A 20160627**

Priority

- JP 2015134743 A 20150703
- JP 2016069030 W 20160627

Abstract (en)

Provided is a method for producing cobalt powder with high reaction efficiency by controlling the amount of added seed crystals when cobalt powder is produced from a solution containing a cobalt ammine sulfate complex. The method sequentially includes: a mixing step of adding, to the solution containing a cobalt ammine sulfate complex, cobalt powder as seed crystals in an amount of 1.5 times or more and 3.0 times or less the amount of cobalt contained in the solution and then adding a dispersant in an amount of 1.5% by weight to 3.0% by weight of the added seed crystals to form a mixture slurry; and a reduction and precipitation step of charging a reaction vessel with the mixture slurry and then blowing hydrogen gas into the mixture slurry to reduce cobalt complex ions contained in the mixture slurry to form cobalt precipitate on the surface of the seed crystals. (149 words)

IPC 8 full level

**B22F 9/26** (2006.01)

CPC (source: EP US)

**B22F 9/26** (2013.01 - EP US); **C22B 23/043** (2013.01 - EP US); **C22B 23/0446** (2013.01 - EP US); **B22F 2301/15** (2013.01 - US); **B22F 2998/00** (2013.01 - US); **B22F 2999/00** (2013.01 - US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3321015 A1 20180516**; **EP 3321015 A4 20190320**; AU 2016291485 A1 20180118; AU 2019275612 A1 20200102; CA 2990568 A1 20170112; CN 107735199 A 20180223; JP 2017014593 A 20170119; JP 6489315 B2 20190327; PH 12018500025 A1 20180709; US 2018169764 A1 20180621; WO 2017006795 A1 20170112

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