

Title (en)
NICKEL POWDER PRODUCTION METHOD

Title (de)
NICKELPULVERHERSTELLUNGSVERFAHREN

Title (fr)
PROCÉDÉ DE PRODUCTION DE POUDRE DE NICKEL

Publication
EP 3424626 A4 20191030 (EN)

Application
EP 17759771 A 20170222

Priority
• JP 2016042668 A 20160304
• JP 2017006623 W 20170222

Abstract (en)
[origin: EP3424626A1] Provided is a method for producing nickel powder, wherein fine nickel powder serving as seed crystals needed for production of nickel powder is produced from a solution containing a nickel ammine sulfate complex according to the amount needed for the production of the nickel powder. The method for producing nickel powder is characterized in that: the solution containing the nickel ammine sulfate complex, an insoluble solid, and a dispersant are continuously fed into a reaction vessel, followed by stirring to prepare a solution containing a nickel complex ion; hydrogen gas is blown into the prepared solution to reduce the nickel complex ion in the solution containing the nickel complex ion, thereby forming a precipitate of nickel particles on the surface of the insoluble solid; and thereafter the post-reduction solution is extracted from the reaction vessel. (135 words)

IPC 8 full level
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CPC (source: EP US)
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C-Set (source: EP US)
B22F 2999/00 + B22F 9/26 + B22F 2201/013

Citation (search report)
• [E] EP 3357609 A1 20180808 - SUMITOMO METAL MINING CO [JP]
• [IA] JP 5796696 B1 20151021
• [IA] WO 2015122534 A1 20150820 - KOCHI UNIVERSITY NAT UNIVERSITY CORP [JP], et al
• See references of WO 2017150305A1

Designated contracting state (EPC)
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CN 108778577 A 20181109; JP 2017155319 A 20170907; JP 6641632 B2 20200205; PH 12018501872 A1 20190515;
US 2019009343 A1 20190110; WO 2017150305 A1 20170908

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