

Title (en)  
METHOD AND ARRANGEMENT FOR PRODUCING METAL POWDER

Title (de)  
VERFAHREN UND ANORDNUNG ZUR HERSTELLUNG EINES METALLPULVERS

Title (fr)  
PROCÉDÉ ET DISPOSITIF POUR PRODUIRE UNE POUDRE MÉTALLIQUE

Publication  
**EP 2528704 A4 20161123 (EN)**

Application  
**EP 11736667 A 20110125**

Priority  
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• FI 2011050056 W 20110125

Abstract (en)  
[origin: WO2011092375A1] Method and arrangement for producing metal powder. In the method, dissolved utility metal is mixed in a solution containing at least one intermediary metal for precipitating the dissolved utility metal into a utility metal powder (14). In the method, the first part of an acid-containing starting solution is fed on the anode side (6) of an electrolytic cell as anolyte (1), to get in contact with the anode and the supply material containing yield metal, and the second part of the acid-containing starting solution, which also contains intermediary metal, is fed on the cathode side (8) of the electrolytic cell, to get in contact with the cathode (4) as catholyte (3); yield metal is oxidized and dissolved in the anolyte (1) by leading electric current in the anode (2); the yield metal contained in the second part of the starting solution is reduced on the cathode side (8); and anolyte solution and catholyte solution are fed in a precipitating chamber (12) for mixing the dissolved, oxidized yield metal and the second part of the starting solution containing reduced intermediary metal.

IPC 8 full level  
**B22F 9/24** (2006.01); **C25B 1/00** (2006.01); **C25C 5/02** (2006.01)

CPC (source: EP FI KR US)  
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Citation (search report)  
• [AD] JP 2002327289 A 20021115 - FUKUDA METAL FOIL POWDER  
• [A] JP 2003328198 A 20031119 - MITSUBISHI MATERIALS CORP, et al  
• [A] EP 0221685 A1 19870513 - ELECTRICITY COUNCIL [GB]  
• [A] US 5882502 A 19990316 - GOMEZ RODOLFO [AU]  
• [A] US 4789444 A 19881206 - WATANABE MORIO [JP], et al  
• See references of WO 2011092375A1

Cited by  
EP3795717A4; US11781228B2

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