

Title (en)  
METHOD OF PRODUCTION OF HIGH PURITY SILVER PARTICLES

Title (de)  
VERFAHREN ZUR HERSTELLUNG HOCHREINER SILBERTEILCHEN

Title (fr)  
PROCEDE DE PRODUCTION DE PARTICULES D'ARGENT DE HAUTE PURETE

Publication  
**EP 1819467 A4 20100120 (EN)**

Application  
**EP 05851218 A 20051013**

Priority

- US 2005036727 W 20051013
- US 61887604 P 20041014

Abstract (en)  
[origin: WO2006049831A1] A method for synthesizing high purity silver particles and colloids without requiring the addition of either surfactants or reducing agents thereto, or requiring only a minimal amount thereof. The synthesizing process comprises: (i) a silver oxalate synthesizing process; (ii) a process of dispersing silver oxalate into an appropriate carrier; and (iii) a process of heating said silver oxalate dispersed into said carrier at a temperature of at least 100°C. Silver particles and colloids of various form factor and size may be synthesized depending upon the reaction conditions, the carrier, and the type of surfactant.

IPC 8 full level  
**B22F 9/20** (2006.01)

CPC (source: EP KR US)  
**B22F 9/16** (2013.01 - KR); **B22F 9/18** (2013.01 - KR); **B22F 9/20** (2013.01 - KR); **B22F 9/30** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

Citation (search report)

- [XY] US 2426761 A 19470902 - ADRIEN CAMBRON, et al
- [Y] EP 1201301 A1 20020502 - MITSUBISHI CHEM CORP [JP]
- [Y] US 2004055420 A1 20040325 - GARBAR ARKADY [IL], et al
- [A] US 6660058 B1 20031209 - OH SEONG-GEUN [KR], et al
- See references of WO 2006049831A1

Citation (examination)

- US 6114553 A 20000905 - KIRIKI MASAHARU [JP], et al
- JP S491153 B1 19740111

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**US 2005036727 W 20051013**; CN 200580034820 A 20051013; EP 05851218 A 20051013; JP 2007536851 A 20051013; KR 20077008295 A 20070412; US 66464005 A 20051013