

Title (en)  
METHOD FOR PRODUCING METAL NANOPARTICLES AND NANOPARTICLES OBTAINED IN THIS WAY AND USE THEREOF

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON METALLNANOPARTIKELN UND AUF DIESE WEISE ERHALTENE METALLNANOPARTIKEL UND IHRE VERWENDUNG

Title (fr)  
PROCÉDÉ DE FABRICATION DE NANOPARTICULES MÉTALLIQUES, NANOPARTICULES MÉTALLIQUES AINSI OBTENUES ET LEUR UTILISATION

Publication  
**EP 2358489 A1 20110824 (DE)**

Application  
**EP 09760108 A 20091120**

Priority

- EP 2009008289 W 20091120
- DE 102008061703 A 20081212
- DE 102009015470 A 20090328

Abstract (en)  
[origin: WO2010066335A1] The invention relates to a method for producing metal nanoparticles, wherein metal ions are reduced by means of at least one reducing agent in the presence of at least one polymer stabilizer and are converted into metal nanoparticles. The invention further relates to metal nanoparticles obtained in this way and to the use thereof.

IPC 8 full level  
**B01J 35/00** (2024.01); **B22F 1/00** (2022.01); **B22F 1/0545** (2022.01); **B22F 1/102** (2022.01); **B22F 9/24** (2006.01); **C09C 1/62** (2006.01)

CPC (source: EP KR US)  
**B22F 1/00** (2013.01 - EP KR US); **B22F 1/0545** (2022.01 - EP KR US); **B22F 1/102** (2022.01 - EP KR US); **B22F 9/24** (2013.01 - EP KR US); **B82B 3/00** (2013.01 - KR); **B82Y 30/00** (2013.01 - EP US); **C09C 1/62** (2013.01 - KR); **B22F 2304/054** (2013.01 - US); **Y10S 977/896** (2013.01 - EP US)

Citation (examination)

- WO 2006072959 A1 20060713 - YISSUM RES DEV CO [IL], et al
- US 2007207335 A1 20070906 - KARANDIKAR BHALCHANDRA M [US], et al
- US 2007190323 A1 20070816 - LEE KWI-JONG [KR], et al
- See also references of WO 2010066335A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**DE 102009015470 A1 20100617**; BR PI0923509 A2 20190924; CN 102245333 A 20111116; CN 102245333 B 20131009; EP 2358489 A1 20110824; JP 2012511627 A 20120524; JP 5833447 B2 20151216; KR 101278939 B1 20130628; KR 20110099731 A 20110908; US 2012037041 A1 20120216; US 8870998 B2 20141028; WO 2010066335 A1 20100617

DOCDB simple family (application)  
**DE 102009015470 A 20090328**; BR PI0923509 A 20091120; CN 200980149974 A 20091120; EP 09760108 A 20091120; EP 2009008289 W 20091120; JP 2011539917 A 20091120; KR 20117016016 A 20091120; US 200913139366 A 20091120