

Title (en)
NANOMETER PARTICLES CONTAINING A REACTIVE MONOLAYER

Title (de)
NANOMETERPARTIKEL MIT REAKTIVER SCHICHT

Title (fr)
PARTICULE DE LA TAILLE DU NANOMETRE COMPORTANT UNE MONOCOUCHE REACTIVE ADSORBEE, ET SON PROCEDE D'OBTENTION

Publication
EP 1073902 A2 20010207 (EN)

Application
EP 99953384 A 19990409

Priority
• US 9907823 W 19990409
• US 6286398 A 19980420

Abstract (en)
[origin: WO9961911A2] A nanometer-sized particle comprises a core comprising at least one metal or metal alloy; and a monolayer chemically bonded to the core. The monolayer contains at least one reactive substituent which is coupled to a functional material such that the monolayer is chemically modified. A method of making a functionalized nanometer-sized particle comprises providing a nanometer-sized particle comprising a core which comprises at least one metal or metal alloy, and a monolayer adsorbed onto the core wherein the monolayer includes at least one reactive substituent; and coupling the nanometer-sized particle with a functional material such that the monolayer is chemically modified.

IPC 1-7
G01N 33/53

IPC 8 full level
B01J 13/00 (2006.01); **G01N 33/543** (2006.01); **G01N 33/553** (2006.01); **G01N 33/58** (2006.01)

CPC (source: EP)
B01J 13/0043 (2013.01); **B82Y 30/00** (2013.01); **G01N 33/54346** (2013.01); **G01N 33/54353** (2013.01); **G01N 33/553** (2013.01); **G01N 33/587** (2013.01)

Citation (search report)
See references of WO 9961911A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9961911 A2 19991202; WO 9961911 A3 20000309; AU 6016999 A 19991213; CA 2329859 A1 19991202; EP 1073902 A2 20010207

DOCDB simple family (application)
US 9907823 W 19990409; AU 6016999 A 19990409; CA 2329859 A 19990409; EP 99953384 A 19990409