

Title (en)
DETECTION OF NANOPARTICLES

Title (de)
DETEKTION VON NANOPARTIKELN

Title (fr)
DETECTION DE NANOPARTICULES

Publication
EP 1664736 A1 20060607 (DE)

Application
EP 04765113 A 20040913

Priority
• EP 2004010191 W 20040913
• DE 10344515 A 20030924

Abstract (en)
[origin: WO2005033674A1] The invention relates to a method for detecting particles that are contained in an aqueous solution, the size of said particles lying in the nanometre range (nanoparticles), whereby said detection does not take place by means of a specific bond between proteins and/or nucleic acids in the nanoparticles. According to the method, biomolecules, in particular peptides, which bond specifically with the substance and thus with the nanoparticles are obtained. Said biomolecules are immobilised on the surface of a sensor, which is suitable for detecting a mass-dependent size, the aqueous solution of nanoparticles being conducted over the surface of the sensor and a signal of the latter being registered. The surface of the sensor is then flushed with a standard solution and the modification to the signal is registered. The nanoparticle quantity N(a) is determined from the course of the sensor signal.

IPC 1-7
G01N 15/06; **G01N 21/55**; **G01N 15/02**; **G01N 27/00**

IPC 8 full level
G01N 15/06 (2006.01); **G01N 21/55** (2006.01)

CPC (source: EP)
B82Y 15/00 (2013.01); **G01N 15/0606** (2013.01); **G01N 21/554** (2013.01)

Citation (search report)
See references of WO 2005033674A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005033674 A1 20050414; DE 10344515 A1 20050428; EP 1664736 A1 20060607

DOCDB simple family (application)
EP 2004010191 W 20040913; DE 10344515 A 20030924; EP 04765113 A 20040913