

Title (en)
MAGNETIC NANOPARTICLES COUPLED TO ANNEXINE, AND UTILIZATION THEREOF

Title (de)
MAGNETISCHE NANOPARTIKEL GEHOPPELT AN ANNEXINE UND IHRE VERWENDUNG

Title (fr)
NANOPARTICULES MAGNETIQUES COUPLEES A DE L'ANNEXINE ET LEUR UTILISATION

Publication
EP 0847528 A1 19980617 (FR)

Application
EP 96922967 A 19960620

Priority
• FR 9600964 W 19960620
• FR 9507865 A 19950629

Abstract (en)
[origin: FR2736197A1] The invention relates to a process for the production of magnetic particles forming ferrofluids substituted by ADMS (FFSH), said ferrofluids being directly or indirectly couplable by covalent binding to an effector, said process being characterized in that it comprises the following additional steps: a) the FFSS are centrifuged before peptidization, in a basic medium, of the flocculate formed during the addition of ADMS; b) the FFSS are then reduced by addition of dithiothreitol (DTT) at basic pH to form an FFSH mixture; c) the excess of DTT is eliminated by flocculation of FFSH at pH2, the FFSH retained by a magnet being then washed and resuspended in a PBS buffer.

IPC 1-7
G01N 33/543; **G01N 33/86**; **G01N 33/68**; **H01F 1/44**

IPC 8 full level
B03C 1/01 (2006.01); **G01N 33/543** (2006.01); **G01N 33/68** (2006.01); **G01N 33/86** (2006.01); **H01F 1/44** (2006.01)

CPC (source: EP US)
B03C 1/01 (2013.01 - EP US); **G01N 33/54326** (2013.01 - EP US); **G01N 33/6893** (2013.01 - EP US); **G01N 33/86** (2013.01 - EP US); **H01F 1/44** (2013.01 - EP US); **G01N 2333/4718** (2013.01 - EP US); **Y10S 436/823** (2013.01 - EP US); **Y10S 977/773** (2013.01 - EP US); **Y10S 977/838** (2013.01 - EP US); **Y10S 977/92** (2013.01 - EP US); **Y10S 977/924** (2013.01 - EP US); **Y10S 977/93** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US); **Y10T 428/2991** (2015.01 - EP US)

Citation (examination)
• FR 2461521 A1 19810206 - ANVAR
• MASSART R.: "Préparation de ferrofluides aqueux en l'absence de surfatant: comportement en fonction du pH et de la nature des ions présents en solution", COMPTES RENDUS ACAD. SCI. PARIS, vol. 291, no. 1, 7 July 1980 (1980-07-07), pages 1 - 2
• See also references of WO 9701760A1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
FR 2736197 A1 19970103; **FR 2736197 B1 19970912**; EP 0847528 A1 19980617; US 6150181 A 20001121; WO 9701760 A1 19970116

DOCDB simple family (application)
FR 9507865 A 19950629; EP 96922967 A 19960620; FR 9600964 W 19960620; US 98123998 A 19980611