

INFORME DE BÚSQUEDA DE PATENTES PARA EL RADICADO 14-026546-00006-0000						
CRITERIOS PARA LA BÚSQUEDA						
Palabras clave utilizadas		Alkoxysilane magnetic nanoparticles				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		H01F 1/00				
BASES DE DATOS CONSULTADAS.						
Google patents		Espacenet		Science Direct		Patbase
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
EUROPEA	25/09/13	Synthesis of Fe ₃ O ₄ /APTES/PEG diacid functionalized magnetic nanoparticles for MR imaging	1-14	Nivel Inventivo	X	
		A simple synthesis of amine-derivatised superparamagnetic iron oxide nanoparticles for bioapplications	15-23, 26 y 27	Novedad	X	
		Biocompatible and bioactive gum Arabic coated iron oxide magnetic nanoparticles				X
		Multifunctional magnetite and silica-magnetite nanoparticles: Synthesis, surface activation and applications in life sciences				X
USPTO	08/06/15	US5695900				X
		US2004265233				X
		Yamamura et al., J. Magnetism Magnetic Materials, 2004, 279, 210-217				X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Synthesis, characterisation and application of silica-magnetite nanocomposites						
Progress in Solid State Chemistry 34 (2006) 237e247. Magnetic nanoparticle design for medical applications						
Langmuir, Vol. 23, No. 3, 2007. Silica- and Alkoxysilane-Coated Ultrasmall Superparamagnetic Iron Oxide Particles: A Promising Tool To Label Cells for Magnetic Resonance Imaging						
BÚSQUEDA DE SECUENCIAS						
Número de depósito / patente y N° de secuencia % de identidad						

SEQ ID NO (de la solicitud)	NCBI	The Lens	EMBL-EBI	DDJB	Genome Quest
N/A					

CRITERIOS DE BÚSQUEDA

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Year

☐ 2010 (19)
☐ 2009 (15)
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☐ 2006 (4)
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Publication title

☐ Polymer Contents (13)
☐ Journal of Magnetism and Magnetic Materials (8)
☐ Colloids and Surfaces A: Physicochemical and En... (7)
☐ Journal of Colloid and Interface Science (5)
☐ Journal of Non-Crystalline Solids (5)
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Topic

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☐ polymer contents (10)
☐ mesoporous silica (6)
☐ magnetic nanoparticles (4)
☐ science limited (4)
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Content type

☐ Journal (106)

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RelevanceAll access types

☐ Magnetic nanoparticles in MR imaging and drug delivery Review Article
Advanced Drug Delivery Reviews, Volume 60, Issue 11, 17 August 2008, Pages 1252-1265
Conroy Sun, Jerry S.H. Lee, Miqin Zhang
AbstractPDF (882 K)

☐ Preparation and radiolabeling of surface-modified magnetic nanoparticles with rhenium-188 for magnetic targeted radiotherapy Original Research Article
Journal of Magnetism and Magnetic Materials, Volume 277, Issues 1–2, June 2004, Pages 165-174
Jinquan Cao, Yongxian Wang, Junfeng Yu, Jiaoyun Xia, Chunfu Zhang, Duanzhi Yin, Urs O. Häfeli
AbstractPDF (392 K)

☐ Surface functionalization of silica-coated magnetic nanoparticles for covalent attachment of cholesterol oxidase Original Research Article
Journal of Magnetism and Magnetic Materials, Volume 322, Issue 2, January 2010, Pages 179-185
Franja Šulek, Miha Drofenik, Maja Habulin, Željko Knez
AbstractPDF (361 K)

☐ Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix Original Research Article
Materials Science and Engineering: B, Volume 97, Issue 2, 25 January 2003, Pages 129-134
C. Calzer, C. Savli, M. Popovici
AbstractPDF (191 K)

☐ Cobalt-silica magnetic nanoparticles with functional surfaces Original Research Article
Journal of Magnetism and Magnetic Materials, Volume 293, Issue 1, May 2005, Pages 162-170
Michael L. Vadala, Michael A. Zalich, David B. Fuls, Tim G. St. Pierre, James P. Dailey, Judy S. Riffle
AbstractPDF (210 K)

☐ Asialoglycoprotein receptor-targeted superparamagnetic iron oxide nanoparticles Original Research Article
International Journal of Pharmaceutics, Volume 360, Issues 1–2, 6 August 2008, Pages 197-203
Guifang Huang, James Diakur, Zhenghe Xu, Leonard I. Wiebe
AbstractPDF (665 K)

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1) Family number: 30337175 (US6183658B)SimilarTranslateFull-textStatusCitations

Title: [EN] PROCESS FOR PREPARING AGGLOMERATE-FREE NANOSCALAR IRON OXIDE PARTICLES WITH A HYDROLYSIS RESISTANT COATING

Abstract:

Source: US6183658B [EN] A process for preparing an agglomerate-free suspension of nanosize iron-containing oxide particles coated in a stable manner comprises preparing an aqueous suspension of nanosize iron-containing oxide particles which are partially or completely in the form of agglomerates; adding a trialkoxysilane and a water-miscible polar organic solvent which has a boiling point at least 10 degrees centigrade higher than the boiling point of water; treating the resulting suspension with ultrasound until at least 70 percent of the particles present are in the range of plus or minus 20 percent of the average particle diameter; removing the water by distillation under the action of ultrasound; and separating the non-disintegrated agglomerates.

Classifications:

Classification Explorer

International (IPC 8-9): C01G49/00 C01G49/02 C09C1/24 C09C3/00 C09C3/12 C09D17/00 H01F1/34 (AdvancedInvention); C01G49/00 C09C3/12 C09D17/00 (AdvancedNon-invention); C01G49/00 C01G49/02 C09C1/22 C09C3/00 C09C3/12 C09D17/00 H01F1/12 (CoreInvention)

International (IPC 1-9): C01G49/00 C01G49/02 C09C1/24 C09C3/12 C09D17/00 H01F1/34

CPC: Y10T428/2995 B82Y30/00 C01G49/02 C01P2004/64 C01P2006/80 C01P2006/90 C09C1/24 C09C3/006

European: B82Y30/00 C01G49/02 C09C1/24 C09C3/00P M01P4/64 M01P6/80 M01P6/90

US: 106/456 106/460 252/62.52 252/62.54 252/62.56 427/220 427/600 427/601 428/405

Family:

Family Explorer

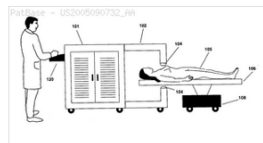
Publication number	Publication date	Application number	Application date	Links
AT194374 E	20000715	AT19970918124T	19970409	
AU199726375 A1	19971029	AU19970026375	19970409	
CA2249609 AA	19980922	CA19972249609	19970409	
CA2249609 C	20060613	CA19972249609	19970409	
CN1083473 C	20020424	CN19971093415	19970409	
CN1214716 A	19990421	CN19971093415	19970409	

4) Family number: 31868729 (US2005090732A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] Therapy via targeted delivery of nanoscale particles

Abstract: Source: US2005090732A [EN] Disclosed are compositions, systems and methods for treating a subject's body, body part, tissue, body fluid cells, pathogens, or other undesirable matter involving the administration of a targeted thermotherapy that comprises a bioprobe (energy susceptible materials that are attached to a target-specific ligand). Such targeted therapy methods can be combined with at least one other therapy technique. Other therapies include hyperthermia, direct antibody therapy, radiation, chemo- or pharmaceutical therapy, photodynamic therapy, surgical or interventional therapy, bone marrow or stem cell transplantation, and medical imaging, such as MRI, PET, SPECT, and bioimpedance. The disclosed therapies may be useful in the treatment of a variety of indications, including but not limited to, cancer of any type, such as bone marrow, lung, vascular, neuro, colon, ovarian, breast and prostate cancer, epitheloid sarcomas, AIDS, adverse angiogenesis, restenosis, amyloidosis, tuberculosis, cardiovascular plaque, vascular plaque, obesity, malaria, and illnesses due to viruses, such as HIV.



Classifications: [Classification Explorer](#)

International (IPC 8-9): A61B5/055 A61K41/00 A61K45/00 A61K51/00 A61N1/40 A61N2/00 A61N2/02 A61N5/06 A61N5/10 A61P25/28 A61P3/04 A61P31/06 A61P31/12 A61P31/18 A61P33/06 A61P35/00 A61P43/00 A61P9/00 G01T1/161 H01F1/00 (Advanced/Invention);

A61N5/04 A61N5/06 A61N5/10 (Advanced/Non-invention);

A61B5/055 A61K41/00 A61K45/00 A61K51/00 A61N1/40 A61N2/00 A61N5/06 A61N5/10 A61P25/00 A61P3/00 A61P31/00 A61P33/00 A61P35/00 A61P43/00 A61P9/00 G01T1/00 H01F1/00 (Core/Invention);

A61N5/02 A61N5/06 A61N5/10 (Core/Non-invention);

A61N (Subclass/Invention)

International (IPC 1-7): A61B5/055 A61N

CPC: A61N1/406 A61N2/002 A61N2/008 A61N5/04 A61N5/062 A61N5/10

European: A61N1/40T2 A61N2/00C K61N2/00T4 K61N5/04 K61N5/06C8 K61N5/10

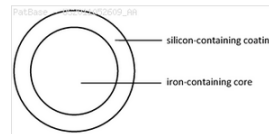
US: 324/318 600/411

9) Family number: 43503830 (US2011052609A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] MAGNETIC TRANSDUCERS

Abstract: Source: US2011052609A [EN] Embodiments herein relate to the production of biocompatible magnetic nanoparticles with a high SAR-value which produce a large amount of heat when exposed to an alternating magnetic field. The produced heat can be used among others for therapeutic purposes, in particular for combating cancer.



Classifications: [Classification Explorer](#)

International (IPC 8-9): A61K31/7088 A61K33/26 A61K39/395 A61K41/00 A61K45/00 A61K45/06 A61K47/02 A61K48/00 A61K9/14 A61P19/02 A61P29/00 A61P31/04 A61P31/10 A61P31/12 A61P35/00 A61P43/00 A61P7/02 B01J19/10 B82B1/00 B82Y30/00 B82Y40/00 C01G

C01G49/00 C01G49/02 C01G49/06 C01G49/08 C09C1/24 (Advanced/Invention);

A61K47/02 A61P35/00 B01J19/10 C01G49/02 (Advanced/Non-invention);

A61K41/00 B01J19/10 C01G49/02 C09C1/22 (Core/Invention);

C01G (Subclass/Invention)

International (IPC 1-7): C01G49/02

CPC: A61K9/143 A61K33/26 A61K45/06 A61K41/0052 B82Y30/00 C01G49/02 C01G49/06 C01G49/08 C01P2004/42 C01P2004/64 C09C1/24

European: A61K41/00U B82Y30/00 C01G49/02 C01G49/06 C01G49/08 C09C1/24 M01P4/42 M01P4/64

US: 424/178.1 424/178.100P 424/490 424/646 424/646S 607/88 607/96

Family: [Family Explorer](#)

10) Family number: 43611323 (US2011223255A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] IMPLANTABLE PRODUCTS COMPRISING NANOPARTICLES

Abstract: Source: US2011223255A [EN] The present disclosure relates to nanoparticle-containing implantable and preferably biodegradable medical products and their use for the thermotherapeutic after-treatment after surgical removal of tumors and cancerous ulcers.

Classifications: [Classification Explorer](#)

International (IPC 8-9): A61F13/00 A61F7/00 A61K A61K31/00 A61K31/33 A61K31/337 A61K31/395 A61K31/407 A61K31/704 A61K33/26 A61K38/16 A61K47/02 A61K47/30 A61K47/48 A61K9/00 A61K9/06 A61K9/14 A61K9/50 A61K9/51 A61K9/70 A61L15/42 A61L17/00 A61L31/00 A61L31/08 A61L31/14 A61P35/00 B82B1/00 B82Y5/00 (Advanced/Invention);

A61K9/06 A61K9/50 A61K9/70 A61L31/08 A61P41/00 A61P43/00 B82Y5/00 (Advanced/Non-invention);

A61F13/00 A61K31/00 A61K47/48 A61K9/00 A61K9/06 A61K9/50 A61K9/51 A61K9/70 A61L31/00 A61L31/08 (Core/Invention);

A61K (Subclass/Invention)

CPC: A61K9/0024 A61K9/70 A61K9/7015 A61K31/00 A61K41/0028 A61K41/0052 A61L15/42 A61L27/446 A61L27/54 A61L27/56 A61L2300/416 A61L2300/604 A61L2300/80

European: A61K31/00 A61K41/00M A61K41/00U A61K9/00M5D A61K9/70 A61K9/70D A61L15/42 A61L27/44R A61L27/54 A61L27/56 K61L300/416 K61L300/604 K61L300/80

US: 424/400 424/400S 424/489 424/489P 424/647 424/647S 514/183 514/183S 514/19.3 514/19.300S 514/34 514/34S 514/410 514/410S 514/449 514/449S 977/773 977/773S

Family: [Family Explorer](#)

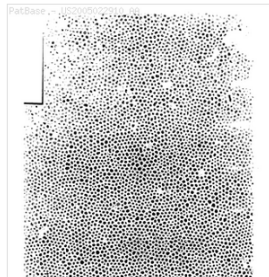
Publication number	Publication date	Application number	Application date	Links
AU2009214533 AA	20090820	AU20090214533	20090211	
AU2009214533 BB	20150129	AU20090214533	20090211	
CA2712832 AA	20090820	CA20092712832	20090211	
CN101938993 A	20110105	CN200980104353	20090211	

1) Family number: 31492456 (US2005022910A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] MAGNETIC METAL PARTICLE AGGREGATE AND METHOD OF PRODUCING THE SAME

Abstract: Source: US2005022910A [EN] A method to produce dispersion of magnetic metal particle aggregates is provided. FePt **nanoparticles** are uniformly dispersed with the particles separated at controlled inter-particle spacing. The magnetic metal particle aggregate is composed of magnetic metal particles whose main components and the contents thereof are represented by the following general formula (1): $[TXM1-X]Y21-Y(1)$, where T is one or both of Fe and Co, M is one or both of Pt and Pd, Z is at least one member selected from the group composed of Ag, Cu, Bi, Sb, Pb and Sn, X represents 0.3 ~ 0.7, and Y represents 0.7 ~ 1.0, the balance being impurities unavoidably incorporated during production, wherein the proportion of face-centered tetragonal structure is in the range of 10 ~ 100 percent, the particles have an average diameter of 30 nm or less, and the particles are in a dispersed state spaced apart from one another.



Classifications: [Classification Explorer](#)

International (IPC 8-9): B22F1/00 B22F9/24 B32B5/16 B82Y25/00 C22C1/04 C22C19/07 C22C38/00 G11B5/70 G11B5/706 G11B5/714 H01F1/00 H01F1/06 H01F1/26 H01F1/44 H01F10/00 (Advanced/Invention);

B22F1/00 B22F1/02 C22C38/00 G11B5/70 H01F1/06 H01F10/00 (Advanced/Non-invention);

B22F1/00 B22F1/02 B22F9/16 B32B5/16 C22C1/04 C22C19/07 C22C38/00 G11B5/70 G11B5/706 H01F1/00 H01F1/032 H01F1/12 H01F1/44

H01F10/00 (Core/Invention);

H01F10/00 (Core/Non-invention)

International (IPC 1-7): B22F1/00 B22F1/02 B22F9/24 C22C19/07 C22C38/00 G11B5/70 G11B5/706 G11B5/714 H01F1/00 H01F1/06 H01F1/44

H01F10/00

CPC: H01F1/068 B22F1/0022 B22F9/24 B22F998/00 B82Y25/00 B82Y30/00 C22C1/0491 H01F1/0054 H01F1/065 H01F10/007 Y10T428/12014