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see Notice of 5 November 2009

(54) Title: MIXED LIGAND CORE/SHELL IRON OXIDE NANOPARTICLES FOR INFLAMMATION IMAGING

(57) Abstract: A nanostructure includes (1) an inorganic nanoparticle core; (2) a first ligand, having a first chain length, bonded to the inorganic nanoparticle core; the first ligand having a charge; and (3) a second ligand, having a second chain length, bonded to the inorganic nanoparticle core; the second ligand is hydrophilic. The second chain length is longer than the first chain length such that varying a mole percent quantity of the first ligand does not substantially alter a hydrodynamic diameter of the nanostructure. Methods for making these nanostructures and their use in magnetic resonance imaging and management of inflammatory conditions are provided.



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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/093555 A1 (TORRES ANDREW S [US] ET AL) 4 May 2006 (2006-05-04)	1-7, 11, 14-16, 24-32
Y	claims 1, 4, 6, 13 paragraph [0014] paragraph [0055] paragraph [0083] paragraph [0060] paragraphs [0111], [112] paragraph [0131]	1-32

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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