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(54) Title: PARTICLES FOR IMAGING CELLS

(57) Abstract: The invention includes a particle that includes at least one magnetic resonance imaging (MRI) active material, at least one fluorescent material, and at least one polymer. The invention also includes a method of tracking at least one cell that includes labeling the cell with a particle in accordance with the invention, and monitoring the cell using magnetic resonance imaging (MRI), flow cytometry, fluorescent techniques, microscopy studies, or combinations thereof.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US03/38820

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) : A61B 5/055; A61K 51/00; G01N 24/00
 US CL : 424/9.323, 9.32, 9.6; 436/173
 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)
 U.S. : 424/9.323, 9.32, 9.6; 436/173

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,309,701 B1 (BARBERA-GUILLEM) 30 October 2001 (20.10.2001), see column 4-6.	1-4, 6-20 and 23-29
X	US 4,157,323 A (YEN et al) 05 June 1979 (05.06.1979), see columns 2-6 and 9.	1-5,7-21 and 23-29
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Y		6 and 22

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 872-9306	Authorized officer Michael G. Hartley <i>J. Roberts for</i> Telephone No. (571) 272-1600

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

APS

search terms: MRI, magnetite, NMR, particles, spheres, colloids, superparamagnetic, paramagnetic, fluorescent, fluorescein, fitc, cell labeling.