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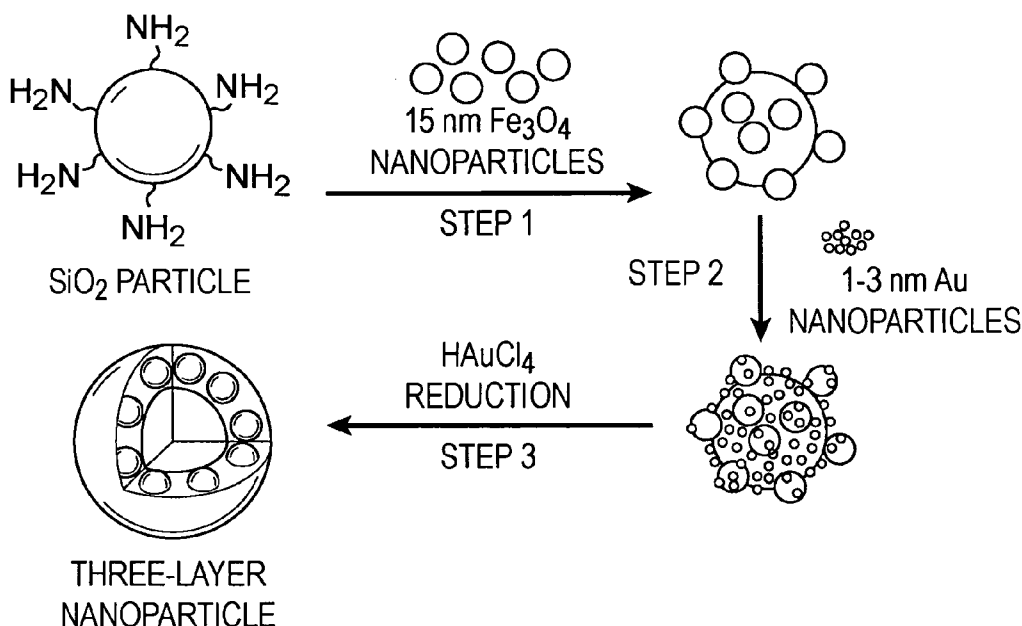
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[Continued on next page]

(54) Title: COMPOSITE PARTICLES



(57) Abstract: Composite particles and methods of synthesizing a composite particle are disclosed, hi particular, methods of synthesizing a composite particle comprising a dielectric component, a magnetic component, and a gold shell are disclosed. Further disclosed herein are methods of detecting a target compound using the composite particles of the present invention. Also disclosed are photonic crystals that can be manipulated with an external magnetic field comprising the composite particles of the present invention.

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A. CLASSIFICATION OF SUBJECT MATTER

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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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	M. SPASOVA ET. AL.: "Magnetic and optical tunable microspheres with a magnetite/gold nanoparticle shell" JOURNAL OF MATERIALS CHEMISTRY, vol. 15, 13 April 2005 (2005-04-13), page 2095-2098, XP002471928 The Royal Society of Chemistry the whole document	1-48
A	US 2002/132045 A1 (HALAS NANCY J [US] ET AL) 19 September 2002 (2002-09-19) abstract examples 1,3-5,15 ----- -/--	1-36

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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