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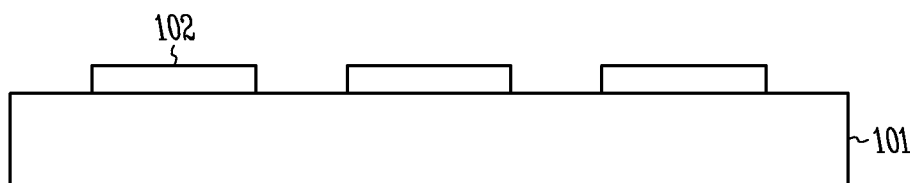
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(54) Title: HYDROGEL MICROARRAY WITH EMBEDDED METAL NANOPARTICLES



HG I

(57) Abstract: A method of creating a metal nanoparticle hydrogel biological array comprises placing a plurality of metal nanoparticles in each of a plurality of wells (302) on a substrate (301) and placing a biomolecular probe material into the plurality of wells (302). Hydrogel precursors are placed in each of the plurality of wells (302), and are polymerized to form hydrogel such that the metal nanoparticles are embedded in the hydrogel (303)



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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, COMPENDEX, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/031054 A (SURMODICS INC [US]) 17 April 2003 (2003-04-17) abstract page 2, line 14 - line 29 page 6, line 3 - line 24 page 7, line 29 - page 8, line 12 page 16, line 17 - line 28 claims; figure 1; examples -----	1-20
X	US 2006/110760 A1 (KIM SU-HYEON [KR] ET AL) 25 May 2006 (2006-05-25) abstract paragraph [0011] - paragraph [0019] paragraph [0023] paragraph [0037] - paragraph [0045] paragraph [0051] paragraph [0054]; claims; example 3 ----- -/--	1-20

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 'E1' earlier document but published on or after the international filing date '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) '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	'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 'X1' 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 '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. '* &' document member of the same patent family
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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/ European Patent Office, P B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Nazario, Luis
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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
X	WO 00/59624 A (QUBIS LIMITED [GB]; BELL STEVEN ERNEST JOHN [GB]) 12 October 2000 (2000-10-12) abstract page 3, line 26 - line 32 page 5, line 6 - line 34 page 6, line 5 - page 7, line 29 page 8, line 19 - line 22 page 8, line 35 - line 21 page 10, line 28 - page 11, line 34; claims; figures Ia, Ib -----	1-20
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A	LI J ET AL: "Highly photoluminescent CdTe/Poly(N-isopropyl acrylamide) Temperature-sensitive gels" ADVANCED MATERIALS, WILEY VCH, WEINHEIM, DE, vol. 17, no. 2, 1 January 2005 (2005-01-01), pages 163-165, XP003011615 ISSN: 0935-9648 page 163, right-hand column, paragraph 2 - page 164, left-hand column, paragraph 1 page 165, right-hand column, last paragraph - page 166, left-hand column, paragraph 1 -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2008/051423

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