

Title (en)

COLLOIDAL PARTICLES USED IN SENSING ARRAYS

Title (de)

KOLLOIDAL-TEILCHEN ZUR VERWENDUNG IN SENSOR-ARRAYS

Title (fr)

PARTICULES COLLOIALES UTILISEES DANS UNE MOSAIQUE DE CAPTEURS

Publication

**EP 1084390 A4 20050727 (EN)**

Application

**EP 99931777 A 19990608**

Priority

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- US 11883399 P 19990205

Abstract (en)

[origin: WO0000808A2] A device for detecting a chemical analyte, said device comprising: a sensor array connected to a measuring apparatus having at least one sensor comprising regions of nonconductive material and conductive material compositionally different than said nonconductive material, wherein said conductive material comprises a nanoparticle; and a response path through said regions of nonconductive material and said conductive material.

IPC 1-7

**G01N 1/00**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] WO 9807024 A1 19980219 - CALIFORNIA INST OF TECHN [US]
- [X] WO 9810289 A1 19980312 - PENN STATE RES FOUND [US], et al
- [X] WO 9804740 A1 19980205 - UNIV NORTHWESTERN [US], et al
- [X] US 4631952 A 19861230 - DONAGHEY LEE F [US]
- [AD] BRUST M ET AL: "SYNTHESIS OF THIOL-DERIVATISED GOLD NANOPARTICLES IN A TWO-PHASE LIQUID-LIQUID SYSTEM", JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL COMMUNICATIONS, CHEMICAL SOCIETY. LETCHWORTH, GB, 1994, pages 801 - 802, XP000982284, ISSN: 0022-4936
- [AD] HOSTETLER M J ET AL: "MONOLAYERS IN THREE DIMENSIONS: SYNTHESIS AND ELECTROCHEMISTRY OF OMEGA-FUNCTIONALIZED ALKANETHIOLATE-STABILIZED GOLD CLUSTER COMPOUNDS", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 118, 1996, pages 4212 - 4213, XP000872972, ISSN: 0002-7863
- [PX] WOHLTJEN H ET AL: "COLLOIDAL METAL-INSULATOR-METAL ENSEMBLE CHEMIRESISTOR SENSOR", ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 70, no. 14, 15 July 1998 (1998-07-15), pages 2856 - 2859, XP000778883, ISSN: 0003-2700
- [AD] HOSTETLER M J ET AL: "ALKANETHIOLATE GOLD CLUSTER MOLECULES WITH CORE DIAMETERS FROM 1.5 TO 5.2 NM: CORE AND MONOLAYER PROPERTIES AS A FUNCTION OF CORE SIZE", LANGMUIR, AMERICAN CHEMICAL SOCIETY, NEW YORK, NY, US, vol. 14, 1 June 1998 (1998-06-01), pages 17 - 30, XP000881222, ISSN: 0743-7463
- See references of WO 0000808A2

Designated contracting state (EPC)

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